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M HOUSE SURRY PTY LTD



Detailed Site Investigation

47 - 97 Marlborough Street, Surry Hills NSW

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1 Soft Copy (PDF – Secured, issued by email)	M House Surry Pty Ltd Suite 3402, Level 34, 264 George Street **Sydney NSW 2000**
2 Original (Saved to Digital Archives)	EI Australia Suite 6.01, 55 Miller Street, **Pyrmont NSW 2009**

Author	Technical Reviewer
	
Ricardo Lopes Environmental Engineer	**Alex Syriatowicz** Principal Environmental Scientist

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Executive Summary

EI Australia (EI) was engaged by M House Surry Pty Ltd ('the client') to conduct a Detailed Site Investigation (DSI) of the property located at 47 - 97 Marlborough Street, Surry Hills NSW ('the site').

The site is located approximately three kilometres south of the Sydney central business district, within the Local Government Area (LGA) of Council of the City of Sydney (Council), **Figure 1**, **Appendix A**). The site is located at 47-97 Marlborough Street, Surry Hills and is legally described as Lot 1 in DP225393 and Lot 1 in DP251056. It is rectangular in shape and has an area of approximately 3,413 m². (**Figure 2**, **Appendix A**).

The site is located in the City of Sydney local government area (LGA) in Surry Hills, which is serviced by public amenities such as a supermarket, cafes, destination retail shops and a library. Nearby community facilities include swimming pools, tennis courts, and open spaces. The southern portion of the site comprises a locally listed heritage item (the former David Jones Warehouse building) and the northern portion of the site accommodates a car park. The area to the east and south of the site is a Heritage Conservation Area.

The site is in an accessible area with the nearest Light Rail Station (Surry Hills) 200m to the north of the site. The site is also close to regular bus services in the immediate vicinity.

The existing building is built to the site boundaries. There are existing street trees along Marlborough Street, as well as some planter boxes containing vegetation on the site's north-eastern frontage to Marlborough Street.

The purpose of this investigation was to evaluate the environmental condition of the site (with respect to potential contamination risk), in support of a planning proposal to the NSW Department of Planning, Housing and Infrastructure for redevelopment.

This DSI supports the developer in meeting their obligations under the *Contaminated Land Management Act 1997* and *State Environmental Planning Policy (Resilience and Hazards) 2021* in the assessment and management of contaminated soil and/or groundwater, should these be identified or considered likely. It accompanies an Environmental Impact Statement (EIS) prepared under Part 8 of the *Environmental Planning and Assessment Regulation 2021* (EP&A Regulation) and supports a State Significant Development Application (SSDA; SSD-78545225) for the proposed redevelopment. This report addresses the Secretary's Environmental

The Minister for Planning, or their delegate, is the consent authority for the SSDA and this application is lodged with the NSW Department of Planning, Housing and Infrastructure (DPHI) for assessment. This report has been prepared in response to the requirements contained within the Secretary's Environmental Assessment Requirements (SEARs) dated 19 December 2024 (SSD- 78545225). Specifically, this report has been prepared to respond to the following SEARs:

SEARs Requirement	Section of Report where response is provided
13. Contamination and Remediation In accordance with *Chapter 4 of SEPP (Resilience and Hazards) 2021*, assess and quantify any soil and groundwater contamination and demonstrate that the site is suitable (or will be suitable, after remediation) for the development.	Section 6, 7, 8, 9 and 10

Objectives

The objectives of this investigation were to:

- Evaluate the potential for site contamination to be present on the basis of historical land uses, anecdotal and documentary evidence of possible pollutant sources;
- Investigate the nature and degree of potential contamination (if present), by intrusive sampling of soil and groundwater and laboratory analysis for relevant contaminants of potential concern (COPC);
- Provide a conclusion regarding suitability of the site for the proposed development; and
- Should site contamination be identified, make recommendations for the appropriate management of any impacted soils and/or groundwater, and possible further investigation.

Scope of work

To achieve the above objectives, the following scope of works was completed:

- A desktop review and site inspection to inform an understanding of the site's history and potential contamination risks;
- Drilling and soil sampling at eight locations, groundwater well installation and sampling at three locations, followed by laboratory testing;
- A Ground Penetrating Radar (GPR) survey in suspected areas of current or former Underground Petroleum Storage Systems (UPSS); and
- Analysis of the findings to assess possible contamination risks and pathways to inform recommendations with respect to contamination risk for the proposed site redevelopment.

Key Findings

- The desktop review indicated that the site's central and southern portions have retained building structures since at least 1943, while the northern portion changed from possible residential use to a car park by 1975. Since the late 1990s, the site and surrounding area have remained largely unchanged, with stable land use and building footprints over time.
- Searches of the NSW Environment Protection Authority (NSW EPA)'s online public registers for statutory notices and licensing information indicated:
  - The site is not listed on the contaminated land public record;
  - No regulatory notices apply to the site; and
  - No relevant notices apply to land within close proximity of the site.
- A search of the *Protection of the Environment Operations Act 1997* public register which contains records of contains records of environmental protection licences, applications, notices, audits, pollution studies and reduction programs indicated that that neither the site nor surrounding land within 250 metres is listed on the register.
- No nearby properties considered likely to pose a significant off-site contamination risk were identified during this DSI, based on their distance and/or direction relative to the site. It is noted that one dry cleaner business was identified 93m south-west of the site (anticipated to be hydraulically cross-gradient of the site).
- Acid sulfate soils are not known or expected to occur at the site.
- Groundwater is anticipated to flow south-easterly direction.

- Soil:
  - During intrusive investigation of the site, concrete hardstand was encountered at 0.13–0.18 metres Below Ground Level (mBGL) overlying fill to an approximately 0.7 mBGL. BH107 intersected two concrete layers, indicating staged development. Residual soils (sandy gravel and clay) extended from approximately 1.2 to 5.0 mBGL, underlain by shale and sandstone bedrock. Minor anthropogenic materials were noted, with no visual contamination indicators.
  - Photoisonisation Detector readings of sample headspaces were low, indicating no significant Volatile Organic Compound (VOC) impacts.
  - A range of polycyclic aromatic hydrocarbon (PAH) compounds were detected in analysed soil samples of fill and natural materials. Concentrations were generally below adopted human health criteria, indicating low-level petroleum-related impacts.
  - Chlorinated solvents were detected at a low concentration in one analysed sample.
  - Benzo(a)pyrene exceeded the adopted ecological criteria in shallow fill at two locations.
  - Total recoverable hydrocarbons (TRH) were detected in both fill and natural soils, generally below site criteria. However, isolated exceedances were recorded for TRH Fraction F1 (marginally above human health criteria) and TRH Fraction F3 (above ecological criteria). The lateral and vertical extent of these exceedances has not yet been delineated.
  - On-site ecological receptors (flora and fauna) are not considered relevant to the proposed future land use because they are typically of low sensitivity/value in an urban setting, and there will be minimal landscaped areas based on the proposed development design. Additionally, shallow fill in the landscaping areas is likely to be removed as part of site redevelopment.
  - All other COPC were reported at concentrations below the adopted site assessment criteria.
  - Fibrous asbestos was identified in shallow fill at one location. The extent of asbestos-impacted material has not been delineated and is considered to warrant further assessment and/or management.
  - Toxicity Characteristics Leaching Procedure (TCLP) analysis on select soil samples indicated no exceedances of leachability criteria for benzo(a)pyrene, lead, or nickel.
- Groundwater:
  - Groundwater monitoring wells were screened within sandstone bedrock at depths between approximately 18.8 and 28.0 mBGL. Groundwater seepage was encountered between 7.0 and 17.3 mBGL during drilling. Static groundwater water levels ranged from 4.22 to 9.60 mBGL. No visible sheen or Light, Non-Aqueous Phase Liquid was observed in groundwater during sampling. Odour observations were noted, including medium sulfuric odour in one well, and a strong solvent odour in another (BH102M).
  - TRH were detected above laboratory detection limits in all groundwater samples, indicating the presence of petroleum-related hydrocarbons. Some results exceeded adopted ecological criteria but were reported concentrations were low.
  - VOC (including but not limited to chlorinated solvents) and PAH compounds were detected, but did not exceed adopted groundwater investigation levels, suggesting low human health risk under proposed exposure assumptions.

  - A broader range of VOCs in one location (BH102M) indicates both chlorinated and petroleum-related hydrocarbon impacts, suggesting mixed or historical contaminant sources. This location is considered likely to be hydraulically down-gradient of a suspected disused or decommissioned on-site UPSS.
  - Low concentrations of additional VOC at other locations were also identified, supporting evidence of localised groundwater impacts.
- Based on the revised CSM, potential future risks associated with plausible Source-Pathway-Receptor (SPR) linkages were identified.
- The overall risk presented by the reported soil and groundwater exceedances are considered to be low, however, further investigation and appropriate management measures are considered warranted, to close the following identified data gaps:
  - The vertical and lateral extent of identified fibrous asbestos and impacts remains undefined;
  - A limited number of sampling locations were completed due to site access constraints;
  - Subsurface conditions beneath buildings, pavements and inaccessible areas were not assessed;
  - Detected VOCs present potential vapour intrusion risks, requiring consideration in future development scenarios, and
  - The GPR survey did not confirm suspected on-site UPSS; however, absence of records limits certainty regarding historical or existing systems.

It is considered that the site can be made suitable for the proposed mixed use development (residential and commercial) in the context of the following:

- the findings of this DSI and the CSM;
- the nature of the proposed site redevelopment design;
- subject to the successful implementation of the recommendations provided in **Section 10.** EI notes that these recommendations can be incorporated into the planning and consent process for the proposed development; and
- with reference to EI's *Statement of Limitations* (**Section 11**).

1. INTRODUCTION

1.1 Background and Purpose

EI Australia (EI) was engaged by MHouse Surry Pty Ltd ('the client') to conduct a Detailed Site Investigation (DSI) of the property located at 47 - 97 Marlborough Street, Surry Hills NSW ('the site').

The site is located approximately three kilometres south of the Sydney central business district, within the Local Government Area (LGA) of Council of the City of Sydney (Council), **Figure 1**, **Appendix A**). The site is located at 47-97 Marlborough Street, Surry Hills and is legally described as Lot 1 in DP225393 and Lot 1 in DP251056. It is rectangular in shape and has an area of approximately 3,408 m². (**Figure 2**, **Appendix A**).

The site is located in the City of Sydney local government area (LGA) in Surry Hills, which is well-serviced by public amenities such as a supermarket, cafes, destination retail shops and a library. Nearby community facilities include swimming pools, tennis courts, and open spaces. The southern portion of the site comprises a locally listed heritage item (the former David Jones Warehouse building) and the northern portion of the site accommodates a car park. The area to the east and south of the site is a Heritage Conservation Area.

The site is in an accessible area with the nearest Light Rail Station (Surry Hills) 200m to the north of the site. The site is also close to regular bus services in the immediate vicinity.

The existing building is built to the site boundaries. There are existing street trees along Marlborough Street, as well as some planter boxes containing vegetation on the site's north-eastern frontage to Marlborough Street.

The purpose of this investigation was to evaluate the environmental condition of the site (with respect to potential contamination risk), in support of a planning proposal to the NSW Department of Planning, Housing and Infrastructure for redevelopment.

This DSI supports the developer in meeting their obligations under the *Contaminated Land Management Act 1997* and *State Environmental Planning Policy (Resilience and Hazards) 2021* in the assessment and management of contaminated soil and/or groundwater, should these be identified or considered likely. It accompanies an Environmental Impact Statement (EIS) prepared under Part 8 of the *Environmental Planning and Assessment Regulation 2021* (EP&A Regulation) and supports a State Significant Development Application (SSDA; SSD-78545225) for the proposed redevelopment. This report addresses the Secretary's Environmental

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1.2 Proposed Development

The application seeks development consent for the redevelopment of the site for an in-fill affordable housing residential development comprising 172 market and affordable housing dwellings. The works will involve the adaptive reuse of the heritage listed warehouse building known as the 'Former David Jones Factory'.

Specifically, this application seeks approval for the following:

- Demolition of the existing car park on the northern portion of the site.
- Site preparation works including:
  - Tree removal.
  - Excavation on the northern portion of the site.
- Alterations and additions to the existing warehouse building for the purposes of a residential flat building comprising:
  - Heritage conservation works to the warehouse building and alterations to the warehouse roof profile on level 8.
  - Four level addition to the warehouse building on the central portion of the site.
  - 134 residential apartments across 9 levels.
  - Indoor communal resident amenity and rooftop communal open space on level 7.
  - Service vehicle access from Goodlet Street to an at-grade loading dock.
  - Lower ground storage, plant and services area.
- Construction of a new residential flat building on the northern portion of the site comprising:
  - Basement car stacker and vehicular access from Landsdowne Street.
  - Retail tenancy on ground level on the corner of Marlborough Street and Landsdowne Street.
  - 38 residential apartments across 9 levels.
- Landscaping and associated public domain works including a private pedestrian link along the western site boundary.
- Provision of 15% affordable housing to be managed by a community housing provider for a period of 15 years from date of the Occupation Certificate.
- Extension and augmentation of physical infrastructure and utilities as required.

The following documents were provided to EI by the client:

- LTS Pty Ltd (2025), *Internal Detail & Level Floor Plans with 3D Revit Model within Lot 1 in DP225393 and Lot 1 in DP251056 in Surry Hills*, ref: 52561-001, dated 27 June 2025;
- Northrop Consulting Engineers Pty Ltd (2024), *Geotechnical Boreholes Plan for Marlborough House Surry Hills NSW*, ref: 242353-SK01-rev3, dated 17 September 2024;
- NSW Department of Planning, Housing and Infrastructure (DPHI, 2024), *Planning Secretary's Environmental Assessment Requirements (SEARs)*, application number: SSD-78545225, dated 19 December 2024;
- TonkinZulaikhaGreer, Feasibility for Marlborough Street, ref: 240801-SK000, dated 14 October 2024; and

- Wardle (2025) Draft Architectural Plans - Project no: 2517, dated 6 November 2025 (**Appendix C**).

Based on the supplied draft architectural plans (**Appendix C**) it is understood that the proposed development will involve the demolition of the existing car park in the northern portion of the site, and the construction of a ten-storey mixed use (residential and retail) building overlying a seven-level drained basement car park with a stacker system. In the central and southern portions of the site, adaptive reuse of two heritage-listed warehouse buildings is proposed, including alterations and additions to the existing structures and the construction of four additional levels to the central warehouse.

The Finished Floor Level (FFL) of the lowest basement carpark stacker is proposed to be Reduced Level (RL) 21.2 meters relative to the Australian Height Datum (mAHD). A Bulk Excavation Level (BEL) of RL 20.9 mAHD is assumed which includes allowance for the construction of the basement slab. To achieve the BEL, excavation depths ranging between 26.1 m and 29.1 m Below Existing Ground levels (BEGL) are estimated. A deep soil zone is proposed along western boundary of the site to facilitate landscaping. Locally deeper excavations may be required for footings, service trenches, crane pads and lift overrun pits.

1.3 Project Objectives

The objectives of this investigation were to:

- Evaluate the potential for site contamination to be present on the basis of historical land uses, anecdotal and documentary evidence of possible pollutant sources;
- Investigate the nature and degree of potential contamination (if present), by intrusive sampling of soil and groundwater and laboratory analysis for relevant contaminants of potential concern (COPC);
- Provide a conclusion regarding suitability of the site for the proposed development; and
- Should site contamination be identified, make recommendations for the appropriate management of any impacted soils and/or groundwater, and possible further investigation.

1.4 Scope of Works

To achieve the above objectives, the following scope of works was completed:

Desktop Study

- Review of relevant topographical, geological and soil landscape maps for the project area;
- Review of the previous reports;
- Review of an environmental risk and planning report compiled for the site and surrounding area by Lotsearch Pty Ltd (Lotsearch);
- Review of historical and current land titles based on the search results compiled by Infotrack Pty Ltd (Infotrack);
- Review of Safework NSW records for information relating to possible dangerous goods and underground tank approvals and locations;
- A search of property files archived by the Council of the City of Sydney (Council), for information relating to operation site history;
- A search of registered bores located within a 500m radius of the site to review local groundwater usage;

- Searches of public registers maintained by the NSW Environment Protection Authority (NSW EPA) for statutory notices and licensing agreements issued under the *Contaminated Land Management Act 1997* and *Protection of the Environment Operations Act 1997*; and
- A search of the *List of NSW Contaminated Sites Notified to the EPA*.
- Development of a preliminary Conceptual Site Model (CSM).

Fieldwork and Laboratory Analysis

- Preparation of a Work, Health, Safety and Environment Plan (WHSEP);
- A review of existing underground services on-site, utilising *Before-You-Dig-Australia* plans and electro-magnetic equipment operated by a licensed services locator;
- A detailed site inspection;
- A Ground Penetrating Radar (GPR) survey in suspected areas of current or former Underground Petroleum Storage Systems (UPSS);
- Construction of test boreholes at eight locations (BH101M to BH108), distributed in a mixed grid/targeted pattern across accessible areas of the site, and multiple level soil sampling within fill and natural soils;
- Installation of three groundwater monitoring bores (BH101M, BH102M and BH103M);
- Completion of groundwater monitoring event (GME), including measurement of standing water levels (SWLs) and representative sampling at the newly installed groundwater monitoring wells; and
- Laboratory analysis of selected soil and groundwater samples for relevant analytical parameters, based on the desktop study and field observations.

Data Analysis and Reporting

- Revision of the preliminary CSM which incorporates the findings of the field sampling program and evaluates plausible contamination source - exposure pathway - receptor (S-P-R) linkages; and
- Data interpretation and preparation of this DSI report with reference to NSW EPA endorsed guidance.

1.5 Regulatory Framework and Guidelines

The following regulatory framework and guidelines were considered during this DSI:

- Australian and New Zealand Governments and Australian State and Territory Governments, *Australian and New Zealand Guidelines for Fresh and Marine Water Quality,* (ANZG, 2018);
- *Contaminated Land Management Act 1997* (the CLM Act 1997);
- Department of Environment and Conservation, *Guidelines for the Assessment and Management of Groundwater Contamination* (DEC, 2007);
- *Environmental Planning and Assessment Act 1979* (the EP&A Act 1979);
- *Environmental Planning and Assessment Regulation 2021 (EP&A Regulation);*
- Heads of EPAs Australia and New Zealand, *PFAS National Environmental Management Plan 3.0* (HEPA, 2025);
- NSW Environment Protection Authority (NSW EPA, 2017) *Guidelines for the NSW Site Auditor Scheme*;

- NSW EPA (2019) *Guidelines* for Implementing the Protection of the Environment Operations (Underground Petroleum *Storage Systems) Regulation 2019*;
- NSW EPA (2020) *Consultants Reporting on Contaminated Land*;
- NSW EPA (2022a) *Sampling Design Part 1 - Application*;
- NSW EPA (2023) *Contamination Assessment of Service Station Sites*;
- National Environment Protection Council NEPC (2013) *National Environmental Protection (Assessment of Site Contamination) Amendment Measure 1999*;
- *Protection of the Environment Operations Act 1997* (the POEO Act 1997);
- *State Environmental Planning Policy (Resilience and Hazards) 2021*; and
- *Sydney Local Environmental Plan 2012*.

2. SITE DESCRIPTION

2.1 Property Identification, Location, and Physical Setting

The site identification details and associated information are presented in **Table 2-1**. The site locality and assessment area are illustrated in **Figures 1** and **2**, **Appendix A**.

Table 2-1 Site Identification

Attribute	Description
Street Address	47 - 97 Marlborough Street, Surry Hills NSW
Site and Location Description	At the time of our investigation, the site was occupied by an existing eight-storey building in the southern third of the site, connected to an existing three-storey building in the middle third of the site. The northern third of the site is an existing single-storey building with roof top open car parking. The remaining areas of the site were occupied by concrete pavement. The site is bounded by Lansdowne Street to the north, Marlborough Street to the east and Goodlet Street to the south, with residential properties sharing the site boundary to south-west. The Sydney County Council – Ausgrid Surry Hills Zone substation No. 901 is situated immediately north-west of the site. The surrounding area is predominantly residential.
Site Coordinates	According to GDA2020-MGA56: ▪ Easting: 334576.131729 ▪ Northing: 6248563.923884 (Source: http://maps.six.nsw.gov.au)
Site Area	Approximately 3,413 m^2 (Source: Site survey plan prepared by LTS, dated 22 August 2025)
Lots and DPs	Lot 1 in DP251056; and Lot 1 in DP225393
Survey Marks	Five permanent marks were within a 100m radius of the site: ▪ PM56536D: at the western corner of Lansdowne Street and Riley Street (40m north-west of the site); ▪ PM56535F: at the eastern corner of Lansdowne Street and Riley Street (35m north-east of the site); ▪ PM150462: at the north-eastern corner of Goodlet Street and Riley Street (31m west of the site); ▪ PM150461: at the south-eastern corner of Goodlet Street and Riley Street (33m west of the site); and ▪ PM150460: at the south-western corner of Goodlet Street and Riley Street (35m west of the site). (Source: http://maps.six.nsw.gov.au)
LGA	Council of the City of Sydney (Council)
Current Zoning	MU1: Mixed Use (*Sydney Local Environmental Plan 2012*)

2.2 Local Land Use

The site is situated within a mixed use area, as described in **Table 2-2**. The local receptors within close proximity to the site are also identified in this table.

Table 2-2 Local Land Use

Direction	Land Use Description	Receptor (distance from site)
North	Public space (Ward Park) Residential properties Commercial properties	Recreations users (approx. 10m north) Residential users (approx. 20m north-east, and 70m north-west) Commercial users (approx. 150m north)
South	Residential properties	Residents (approx. 10m south)
East	Residential properties	Residents (approx. 10m east)
West	The Sydney County Council Substation (Ausgrid No. 901) Residential properties	Site workers (immediately adjacent to the north-western section of the site) Residents (immediately adjacent to the south-western section of the site)

2.3 Regional Setting

The topographical, geological and soil landscape information is summarised in **Table 2-3**.

Table 2-3 Regional Setting

Attribute	Description
Topography	The site is situated on the high western side of Marlborough Street, within gently south eastern dipping topography (0° to 8°) with site levels varying from RL 43 at the northern boundary to RL 40 at the southern boundary (RL have been estimated from publically available information).
Site Drainage	Based on the surface elevation, drainage is expected to flow south-eastwards, to be received by the local stormwater collection network and drain into Busbys Pond within Centennial Park, which is located approximately 1.8km south-east of the site.
Geology	*Geological Survey of New South Wales 1:100,000 Sydney Geological series sheet 9130* prepared by the Geological Survey of NSW Department of Mineral Resources, indicates that the site is underlain by Ashfield Shale (Twia). Ashfield Shale, typically comprising black to dark-grey shale and laminate and bordering Quaternary Age Deposits (Qhd) transgressive dunes, typically comprising medium to fine grained marine sand with podsols. A Volcanic Dyke was noted running in approximately an east west direction 400m to the north of the site.
Soil Landscape	*Soil Landscapes of the Sydney 1:100 000 Sheet* (Chapman GA and Murphy CL, 1989) indicated that the local area is gently undulating to rolling coastal dunefields. North-south oriented dunes with convex narrow crests, moderately inclined slopes and broad gently inclined concave swales.
Acid Sulfate Soil (ASS) Risk	With reference to the *Botany Bay Acid Sulfate Soil Risk Map* (1:25,000 scale; Murphy, 1997), the site is not located within an acid sulfate soil (ASS) risk area. In such cases, ASS are not known or expected to occur and “land management activities are not likely to be affected by ASS materials”. With reference to the *Sydney Local Environmental Plan 2012* Acid Sulfate Soils Map, the site lies within a *Class 5* area.
Nearest Surface Water Feature	Busbys Pond located within Centennial Park, which is approximately 1.8 kilometre (km) south-east of the site.
Groundwater Flow Direction	Based on the site topography and proximity to nearby surface water bodies, groundwater is anticipated to flow south-easterly direction, towards Busbys Pond within Centennial Park, which is approximately 1.8km south-east of the site.

2.4 Site Inspection

Observations were recorded during a walkover of the site on 3 September 2025. These are summarised below, with photographs taken during the inspection presented in **Appendix D**. The site layout is shown on **Figure 2, Appendix A**.

- At the time of inspection, the site was occupied by a brick-rendered commercial building comprising three adjoining components: an eight-level in the southern portion of the building, a two-level structure in the middle portion, and the building car park with its rooftop car park in the northern portion. The building structures were generally in fair condition. An alleyway along the south-western boundary was used as a loading dock and waste collection station. A courtyard, surrounded by three building components, is located along western boundary in the central portion of the site. Suspended concrete slabs were noted in the close vicinity of the courtyard. **(Photograph C1)**
- The site surface was fully paved with concrete hardstand and gently sloping towards the east and south. Stormwater discharge was to on-site stormwater pits. **(Photograph C3)**
- A pad-mounted electrical transformer (ref: S35134) was observed on the concrete hardstand along the northern boundary near the vehicle access via Lansdowne Street. A green and black stain was observed on the concrete hardstand leading towards a nearby stormwater drain. **(Photograph C2 & C3)**
- Four metal covers considered to be potential fuel system access points were observed on the hardstand driveway along north-western boundary of the site, indicating the potential presence of a current or former Underground Petroleum Storage System (UPSS). **(Photograph C5)**. One of the points was inspected and was found to be filled with soils indicating any potential UPSS was not in use and may have been decommissioned. **(Photograph C6)**.
- A fifth potential fuel system access point was observed in the on-grade car park area in the northern portion of the site. A section of resurfaced concrete was observed immediately nearby, indicating that if an underground storage tank (UST) had once been present it has likely been removed. The potential fuel system access point was missing its cover and was filled with soil, further indicating a potential UPSS was also not in use and may have been decommissioned. **(Photograph C7)**.
- A Ground Penetrating Radar (GPR) scan of the area in the vicinity of these metal covers revealed no definitive signals indicating the presence of UPSS, further suggesting the suspected UPSS have been decommissioned. **(Photographs C5,C6 & C7)**.
- Vehicular access to the site is provided via Marlborough Street and Lansdowne Street, servicing the car park within the existing building structure and the rooftop carpark. No significant hydrocarbon staining was observed on the surfaces in either area. **(Photograph C8 & C9)**
- A groundwater monitoring well, installed during a previous geotechnical investigation conducted by EI in 2024 (refer **Section 3.8**), was observed along northern boundary of the site.
- Accessible soils were identified in the elevated garden beds located along north-eastern side of the property. None of vegetation appeared to be distressed, indicating that phytotoxicity was not an issue for soils in the garden beds. **(Photograph C10)**
- No olfactory indicators of contamination (i.e. suspicious odour) were noted during the inspection.

- No obvious (i.e. visible) signs of soil contamination were observed on the site surface or during intrusive investigation (such as asbestos containing materials [ACM], ash, slag, charcoal, oil staining, salt deposits and/or metal fragments).
- No above-ground storage tanks (AST) were observed on the site.

3. SITE HISTORY AND SEARCHES

3.1 Historical Aerial Photograph Review

Aerial photographs from 1943 to May 2025 were sourced from NSW Search and Discovery Spatial Services (https://portal.spatial.nsw.gov.au/portal/apps/webappviewer) and Nearmap. A review of the historical aerial images is provided in **Table 3-1**.

Table 3-1 Historical Aerial Photo Review

Year	Site Land Use	Adjacent Land Use
1943	On-site building structures in the central and southern portions of the site appear to be consistent with the current site configuration. The northern portion is suspected to be occupied by residential properties. However, due to low resolution of the image, the building use could not be confirmed.	Predominantly residential properties surround the site. Major roadways are apparent.
1975	The on-site building structures in the central and southern portions of the site have remained unchanged. The northern portion is suspected to be occupied as an open-space car cark.	The surroundings are well-developed, and appear to consist of residential or light commercial properties. The land to the north of the site appears to be used as public open space for recreational purposes (Ward Park).
1982	The site layout remains consistent with the current configuration.	Apart from the vacant land to the west of Riley Street, the surroundings remain largely unchanged.
1986	The site largely remains unchanged.	The redevelopment structure to the west of Riley Street now appears to be used for residential purpose. Remaining settings surrounding the site appear largely unchanged.
1998 – Present	The site appears unchanged.	Surrounding land uses appear unchanged.

Given that some on-site structures pre-date 1943, there is potential for hazardous building materials, including asbestos-containing materials and lead-based paint, to be present within the buildings and/or in soil.

3.2 Land Titles

A historical land titles search was conducted through InfoTrack Pty Ltd. Copies of relevant documents resulting from this search are presented in **Appendix E**. A summary of key findings are outlined in **Table 3-2** below:

Table 3-2 Summary of Owner History

Year	Registered Proprietor(s) and Occupations (where documented)
Lot 1 DP 251056	
Prior 1860s	This parcel was formerly an old system lane that was in existence from prior to 1860s.

Year	Registered Proprietor(s) and Occupations (where documented)
12.12.1975	Notification of Closing of Roads
1976 to date	Orcades Investments Pty Limited
Lot 1 DP 225393	
1912 to 1972	David Jones Limited
1972 to date	Orcades Investments Pty Limited
Leases include:	19.05.2014: Lease to Telstra Corporation Limited, expired on 30.11.2023; and 16.10.2014: Lease to Australia Tower Network Pty Limited, expired on 30.11.2023.

3.3 Groundwater Bore Records and Local Groundwater Use

An online search for groundwater bores registered with WaterNSW was conducted by EI on 27 October 2025 (Ref: https://minview.geoscience.nsw.gov.au/). The search confirmed no active registered groundwater bores within 500m radius of the site.

3.4 PFAS Assessment

NSW EPA (2017) requires that Per- and Polyfluoroalkyl Substances (PFAS) are considered when investigating land contamination. An assessment of the probability for PFAS occurrence based on considerations outlined in the *PFAS National Environmental Management Plan 3.0* (HEPA, 2025) and the EnRisk (2016) decision tree is provided in **Table 3-3**. In this instance, the potential for PFAS to be present on-site was low and subsequently PFAS sampling / analysis of soil was unwarranted.

Table 3-3 PFAS Decision Tree

Preliminary Screening	Probability	Justification
Is the past or present site activity listed in the HEPA (2025)[2] as being an activity with risk of fire? If so list activity.	L	Site history doesn't indicate significant chemical storage was identified.
Is the past or present off-site activity up-gradient or adjacent to the site listed in the HEPA (2025)[2] as being an activity with risk of fire? If so list activity	L	Off-site (up-gradient) land uses (i.e. Ward Parks) were of low concern with regard to fire risk.
Did fire training involving the use of suppressants occur on-site between 1970 and 2010?	L	Site history does not indicate fire-training activities to have occurred on-site.
Did fire training occur up-gradient of or adjacent to the site between 1970 and 2010?	L	No fire training was identified up-gradient or adjacent to the site.
Is an airport or fire station up-gradient of or adjacent to the site? [1]	L	Not identified within 1 km north of the site.
Have "fuel" fires ever occurred on-site? e.g. ignition of fuel (solvent, petrol, diesel, kerosene) tanks?	L	No evidence of fires was revealed by the desktop study, and no significant chemical storage had occurred.
Have PFAS been used in manufacturing or stored on-site? [2]	L	No activities identified by the site history were of concern.
Could PFAS have been imported to the site in	L	Although possible, the likelihood of this

Preliminary Screening	Probability	Justification
fill materials from a site with activity listed in HEPA (2025)? Importation of fill materials of unknown chemical quality within the site.		occurrence was considered low.
Could PFAS-contaminated groundwater or run-off have migrated on to the site?	L	Unlikely given the presence of roadways.
Is the site or adjacent sites listed in the NSW EPA PFAS Investigation Program? [5]	L	No
If the probability is medium or high in any of the rows, does the site analytical suite need to be optimised to include preliminary sampling and analysis for PFAS in soil (incl. ASLP) testing) and waters? See explanation below.	-	No. However, one groundwater sample was tested for PFAS as a precaution.

Note 1 Runoff from fire training areas may impact surface water, sediment and groundwater.
Note 2 PFAS is used wide range of industrial processes and consumer products, including in the manufacture of non-stick cookware, specialised garments and textiles, Scotchguard™ and similar products (used to protect fabric, furniture, leather and carpets from oils and stains), metal plating and in some types of fire-fighting foam (https://www.nicnas.gov.au/chemical-information/factsheets/chemical-name/perfluorinated-chemicals-pfas)
Note 3 If medium or high probability is applicable to any of the preliminary screening questions, the site analytical suite will be optimised to include preliminary sampling and analysis for PFAS in soil (ASLP Testing) and water.
Note 4 L = Low, M = Medium, H = High
https://www.epa.nsw.gov.au/your-environment/contaminated-land/pfas-investigation-program

3.5 Emerging Chemicals

The NSW EPA uses Chemical Control Orders (CCOs) as a primary legislative tool under the POEO Act 1997 to control chemicals of concern and limit their potential impact on the environment. Considerations for chemicals controlled by CCOs and other emerging chemicals are outlined in **Table 3-4**.

In this instance, the potential for an emerging chemical of concern to be present on-site was low, with the potential exceptions of pesticides potentially present in fill of unknown quality (if historically imported to the site) or applied around building footprints.

Table 3-4 Emerging or Controlled Chemicals

Chemicals of Concern (CCO or emerging)	Decision
Were aluminium smelter wastes used or stored on site (CCO, 1986)?	Unlikely
Do dioxin contaminated wastes (CCO, 1986) have the potential to impact the site?[1]	Unlikely
Were organotin products (CCO, 1989) used or stored on site?[2]	Unlikely
Were PCBs used or PCB wastes (CCO, 1997) stored on-site?[3]	Not observed during the site inspection, however, a pad-mounted was observed at the northern boundary of the site.
Were scheduled chemicals or wastes (CCO, 2004) used or stored?[4] *Pesticides might have been used as a termiticide, and would therefore be localised to near surface subsoils surrounding footings*	Not observed during the site inspection.
Are other emerging chemicals suspected? [5]	No
If Yes to any questions, will site sampling suite need to include sampling for these chemicals of concern?	Yes, due to potentially imported materials being used on the site and the observed transformer.

Note 1 From burning of certain chemicals, smelting or chemical manufacturing or fire on or near the Site.
Note 2 From anti-fouling paints used or removed at boat & shipyards and marinas.
Note 3 From older transformer oils & electrical capacitors
Note 4 Twenty-four priority organochlorine pesticides and industrial by-products
Note 5 Other chemicals considered as emerging e.g. 1,4 dioxane (associated with some VOCs).

3.6 NSW EPA Online Records

Searches of public registers maintained by the NSW EPA for statutory notices and licensing agreements issued under the *Contaminated Land Management Act 1997* and *Protection of the Environment Operations Act 1997* were conducted by EI for this DSI.

3.6.1 Record of Notices Under Section 58 of CLM Act 1997

An on-line search of the contaminated land public record was conducted on 27 October 2025. The contaminated land public record is a searchable database of:

- Orders made under Part 3 of the CLM Act 1997;
- Notices available to the public under Section 58 of the CLM Act 1997;
- Approved voluntary management proposals under the CLM Act 1997 that have not been fully carried out and where the approval of the NSW EPA has not been revoked;
- Site audit statements provided to the NSW EPA under Section 53B of the CLM Act 1997 that relate to significantly contaminated land;
- Where practicable, copies of anything formerly required to be part of the public record; and
- Actions taken by the NSW EPA under Section 35 or 36 of the *Environmentally Hazardous Chemicals Act 1985* (the EHC Act 1985). These sections have since been repealed and are now these notices are treated under the CLM Act as management orders.

The search indicated that neither the site nor the surrounding lands within close proximity (≤250 m) were subject to any regulatory notices relevant to the above legislations.

3.6.2 List of NSW Contaminated Sites Notified to EPA

A search through the *List of NSW Contaminated Sites Notified to the EPA* under Section 60 of the CLM Act 1997 was conducted on 27 October 2025. This list is maintained by the NSW EPA and includes properties on which contamination has been identified, but not deemed to be impacted significantly enough to warrant regulation.

The search indicated that the site was not notified as contaminated to the NSW EPA (i.e. it was not included in the list). A nearby site (Surry Hills Shopping Village) located at 397-399 Cleveland & 2-38 Baptist Street Redfern, approximately 141m south and anticipated to be hydraulically cross-gradient of the site, was registered as *Regulation under CLM Act Not Required*. The property is therefore not regarded as posing a likely off-site contamination risk to the site.

3.6.3 POEO Public Register

A search of the *Protection of the Environment Operations Act 1997* public register was conducted on 27 October 2025. This public register contains records related to environmental protection licences, applications, notices, audits, pollution studies and reduction programs.

The search indicated that neither the site nor the surrounding lands within close proximity (≤250 m) were listed on the POEO Public Register.

3.7 Summary of Lotsearch (2025) Findings

An Enviro-Screen Report was supplied by a third party, Lotsearch Pty Ltd (ref: LS096776 EL, dated 5 September 2025). This report included searches of various environmental resources

and plans archived by statutory authorities. The full report is represented in **Appendix F**. Key findings are summarised below:

- No National liquid fuel facility was identified on the site;
- No potential presence of National Unexploded Ordnance (UXO) was identified either on the site or on surrounding land within close proximity (≤500m);
- No licensed activities under the *POEO Act 1997* were operating either on the site or on surrounding land within close proximity (≤500m);
- Two former licensed activities under the *POEO Act 1997,* now revoked or surrendered, were identified within close proximity (≤500m) of the site:
  - Acciona Infrastructure Australia Pty Ltd – land-based extractive activity, located 130m north-east of the site (cross-gradient); and
  - Nationwide News Pty Limited – hazardous, industrial or Group A waste generation or storage, located 469m north of the site (up-gradient).
- According to the historical business directory (covering 1950 to 1991), a range of commercial activities took place on-site and within the close vicinity (<50m), including:
  - Food processors, salt manufacturers, chemist-manufacturing wholesalers, cosmetic manufacturers, refrigerator and washing machine, electrical supplies, marble & granite, monumental masons, polish manufactures and motor service stations (offsite);
  - No dry cleaners were identified on the site; however one “Dry Cleaners & Pressers” was identified at 93m south-west of the site. The property is anticipated to be hydraulically cross-gradient of the site and therefore not regarded as posing a likely off-site contamination risk to the site.
- The Historical Mining & Exploration Titles search results indicated the site was held under various petroleum-related operation names between 1967 and 2015, including:
  - The Australian Gas Light Company (AGL), North Bulli Collieries Pty Ltd;
  - Dart Energy (Apollo) Pty Ltd;
  - Continental Oil Co of Australia Limited;
  - AGL Upstream Investments Pty Limited;
  - North Bulli Collieries Pty Ltd, AGL petroleum operations Pty Ltd, The Australian Gas Light Co;
  - The Electricity Commission of NSW (Trading as Pacific Power);
  - John Strevens (Terrigal) NL;
  - Macquarie Energy Pty Ltd; and
  - Australian Oil and Gas Corporations Ltd.
- A review of the NSW State Heritage Inventory identified one heritage-listed item on the site and known as *Former David Jones Factory* (Listing No.I2268, Gazette date: 22/1/2016).
- The site is located within *Prohibition Area 2* and regulated under *Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024*. *Prohibition Area 2* defined groundwater cannot be used for:
  - *Human consumption;*
  - *Consumption by animals;*
  - *Domestic purposes;*
  - *Any other purpose, except if the water is fit for purpose, or it is for remediation, temporary construction dewatering, testing or monitoring purposes*.

3.8 Previous Reports

A previous geotechnical investigation and a waste classification certificate were previously completed for the site, and the findings were documented in the following report:

- EI (2024) *Geotechnical Investigation*, Marlborough House, *61 Marlborough Street Surry Hills*, ref: E26534.G03, dated 8 November 2024.

A summary of findings from this report is presented in **Table 3-1**.

Table 3-5 Summary of the Previous Reports

Geotechnical Investigation ('GI') (EI, 2024)	
Assessment Stage	**Project Tasks and Findings**
Scope of Works	The objective of the GI was to assess site surface and subsurface conditions at two borehole locations, and to provide geotechnical advice and recommendations to assist in the design of the proposed development. Soil materials generated during the geotechnical investigation drilling operations were classified with reference to *NSW EPA (2014) Waste Classification Guidelines Part 1: Classifying waste*.
Key Findings	Two soil samples were collected from the two test boreholes (BH1M and BH2) at various depths. Borehole BH1M was subsequently converted into a groundwater monitoring well. Sub-surface conditions encountered during the investigation included a concrete layer between 0.1 and 0.2m thick, underlain by fill material extending to approximately 0.7 mBGL, and followed by natural soils comprising silty clay. Bedrock (weathered shale), was encountered at depths ranging from 3 to 4.95 mBGL, and was interbedded with sandstone at greater depths from 12.3 mBGL. Groundwater seepage was observed in borehole BH2 during drilling at 8.5 mBGL (i.e. 36.8 mAHD). No groundwater seepage was observed in borehole BH1M during drilling. However, a standing water level (SWL) of 7.2 mBGL (i.e. 35.8 mAHD) was recorded in monitoring well BH1M on 27 September 2024. Two soil samples were collected from the two test boreholes for waste classification purposes related to excess soils generated during drilling. Less than 0.2 tonnes of waste was classified as *General Solid Waste (Non-Putrescible)*.

4. PRELIMINARY CONCEPTUAL SITE MODEL

In accordance with the NEPC (2013) *Schedule B2 - Guideline on Site Characterisation*, a preliminary conceptual Site Model (CSM) was developed as part of the contamination appraisal, which assessed potential contamination sources, migration pathways and receptors and informed the intrusive works. It is hereby presented, taking into account the findings from EI's walkover inspection and the historical search information.

4.1 Summary of Site and Surroundings History

The desktop review indicates that the site's central and southern portions have retained their building structures since at least 1943, while the northern area transitioned from potential residential use to an open-space car park by 1975. Surrounding areas developed as residential and light commercial properties, with Ward Park providing public open space to the north. Minor changes occurred west of Riley Street between 1982 and 1986, but overall the site layout remained consistent. From 1998 to the present, both the site and its surroundings have remained largely unchanged, with established land uses and building footprints preserved over the past eight decades.

4.2 Potential Contamination Sources

The potential contamination sources were considered to be as follows:

- Former and current on-site commercial activities, including potential leaks from the on-site transformer and potential UPSS;
- Imported fill materials of unknown origin and quality, used to grade and level the site (if used);
- Hazardous building materials (including potential ACM and lead-based paints) if present within the site structures or from poor demolition practices that may have occurred in the northern portion of the site;
- Application of pesticides around building (footing) perimeters or in fill;
- Leaks from vehicles in the parking areas; and
- Migration from up-gradient, off-site sources.

4.3 Contaminants of Potential Concern (COPC)

The COPC at the site were considered to be:

- Soils
  - Priority Metals (PM) - arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc;
  - Total Recoverable Hydrocarbons (TRHs);
  - Volatile Organic Compounds (VOC); including
    - Volatile Chlorinated Hydrocarbons (VCH);
    - Benzene, Toluene, Ethylbenzene, Xylenes (BTEX);
  - Polycyclic Aromatic Hydrocarbons (PAHs);
  - Organochlorine and Organophosphorus Pesticides (OCPs / OPPs);

- Polychlorinated Biphenyls (PCBs); and
- Asbestos.

- Groundwater:
  - Priority Metals (PM) - arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc;
  - Total Recoverable Hydrocarbons (TRHs);
  - Volatile Organic Compounds (VOC); including
    - Volatile Chlorinated Hydrocarbons (VCH);
    - Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) and
  - Polycyclic Aromatic Hydrocarbons (PAHs).

  Additionally one groundwater sample was analysed for PFAS as a conservative, precautionary measure.

4.4 Potential Exposure Pathways and Site Receptors

Potential exposure pathways and site receptors of contamination (if present) that were considered relevant for this DSI are summarised in **Table 8-1**.

5. METHODOLOGY

5.1 Sampling and Analysis Quality Plan

The sampling and analysis quality plan (SAQP) ensures that the data collected during environmental works are representative and provide a robust basis for assessment decisions. The SAQP for this DSI included the following:

- Data quality objectives (DQO), including a summary of the objectives of the DSI;
- Investigation methodology, including the media to be sampled, details of analytes and parameters to be monitored and a description of intended sampling points;
- Sampling procedures (including sample handling, preservation and storage);
- Field screening methods;
- Laboratory analysis methods; and
- Analytical quality assurance / quality control (QA/QC).

5.2 Data Quality Objectives

In accordance with the NEPC (2013) *Schedule B2 Guideline on Site Characterisation*, the USEPA (2006) *Data Quality Assessment* and NSW EPA (2017) *Guidelines for the NSW Site Auditor Scheme*, a seven step process (**Table 5-1**) was developed by the EI investigation team, so that the appropriate levels of data quantity and quality needed for the specific requirements of the project could be achieved.

Table 5-1 Summary of Project Data Quality Objectives

DQO Step	Details
1. State the Problem Summarise the contamination problem that will require new environmental data, and identify the resources available to resolve the problem; develop a CSM.	This investigation was required to characterise the environmental condition of the site and enable the developer to meet their obligations under *SEPP 2021* and *CLM Act 1997*, for the assessment and management of contaminated soil and/or groundwater, should these be identified. The findings of the DSI must provide supportive information on the environmental condition of the site, to assess suitability for the proposed development. Proposed site redevelopment area is presented in **Figure 2**, **Appendix A**. it involves the demolition of the existing car park building in the northern portion of the site, and the construction of the a new multi-storey residential building overlying a proposed basement car park stacker system. The basement will be a drained basement. The redevelopment also includes heritage renewal works, alterations and additions to the existing building components located in the middle and southern portions of the site. Bedrooms and living rooms will occupy the ground floor of the existing building following the redevelopment works.
2. Identify the Goal of the Study (Identify the decisions) Identify the decisions that need to be made on the contamination problem and the new environmental data required to make them.	Based on the objectives outlined in **Section 1.4**, the decisions that need to be made were: Has the nature, extent and source of any soil and/or groundwater impacts onsite been defined? What impact do the site specific, geologic and hydrogeological conditions have on the fate and transport of any impacts that may be identified? Does the level of impact coupled with the fate and transport of identified contaminants represent an unacceptable risk to identified human and/or environmental receptors on or offsite? Does the collected data provide sufficient information to allow the suitability of the site to be assessed in relation the proposed development design, or selection and design of an appropriate remedial strategy, if necessary? If the data does not provide sufficient information, what data gaps require closure to enable the suitability of the site to be assessed in relation to the proposed development design, or selection and design of an appropriate remedial strategy?
3. Identify Information Inputs (Identify inputs to decision) Identify the information needed to support any decision and specify which inputs require new environmental measurements.	Inputs to the decision making process included: The proposed development and land use; Review of the previous investigations; National and NSW EPA guidelines made or approved under the *CLM Act 1997*; Observations during / from soil and groundwater sampling; and Laboratory analytical results for the selected soil and groundwater samples. At completion of the DSI, a decision is required regarding the suitability of the site for the proposed redevelopment, or if additional investigation is required to assess whether the site is suitable for the proposed development or if remediation is required to make the site suitable.
4. Define the Boundaries of the Study Specify the spatial and temporal aspects of the environmental media that the data must represent to support decision.	**Lateral** – The proposed development area, as shown on **Figure 2**, **Appendix A**; **Vertical** – Investigations were advanced to the depth of natural soils or rock; **Temporal** – The results were valid for the day samples were collected and remain so as long as no changes occur in regards to site use, and contamination (if present) does not migrate onto the site from off-site sources.

DQO Step	Details
5. Develop the Analytic Approach (Develop a decision rule) To define the parameter of interest, specify the action level, and integrate previous DQO outputs into a single statement that describes a logical basis for choosing from alternative actions.	The decision rules for the investigation were: If the concentrations of contaminants in the soil and/or groundwater data exceed the adopted criteria, then assess the need to further investigate the extent of impacts onsite. Decision criteria for QA/QC measures are defined by the Data Quality Indicators (DQI) in **Table 5-2**.
6. Specify Performance or Acceptance Criteria (Specify limits on decision errors) Specify the decision-maker's acceptable limits on decision errors, which are used to establish performance goals for limiting uncertainties in the data.	Specific limits for this project were in accordance with National and NSW EPA guidance, and appropriate indicators of data quality and standard procedures for field sampling and handling. This included the following points to quantify tolerable limits: The null hypothesis for the investigation was that the 95% Upper Confidence Limits (UCL) of the average concentration of contaminants of concern at the site exceeds soil land use criteria appropriate to land use of the proposed development. Acceptance of site suitability was based on the probability that: The 95% UCL of the average concentration of the data set satisfied the given site criteria (thus, a limit on the decision error was 5% that a conclusive statement may be incorrect); The standard deviation of the data set was less than 50% of the relevant criteria; and No single result exceeded the criteria by 250% or more. Soil and groundwater concentrations for the chemicals of concern that were below investigation criteria made or approved by the NSW EPA were treated as acceptable and indicative of suitability for the proposed land use(s). If contaminant concentrations exceeded the adopted criteria, further investigation was considered prudent. If no contamination was detected, no further action was required.
7. Develop the Detailed Plan for Obtaining Data (Optimise the design for obtaining data) Identify the most resource-effective sampling and analysis design for general data that are expected to satisfy the DQOs.	In order to identify the most resource-effective sampling and analysis design and satisfy the DQOs: In accordance with the minimum number points recommended under NSW EPA (2022a) Sampling Design Guidelines. Ten sampling locations should be proposed. However, due to limited site access, soil sampling was conducted at eight locations using a mixed grid/targeted pattern across accessible parts of the site. Three of which were converted to be groundwater monitoring wells. An upper soil profile sample was collected at each borehole location and tested for the contaminants of concern (**Section 4.3**) to assess the conditions of the fill layer, and impacts from activities at ground level. Further discrete, natural samples were analysed for heavy metals, TRH, BTEX and PAH. Samples were selected on field observations (including visual and olfactory evidence), giving consideration to the subsurface stratigraphy. A GME was completed from the three newly installed groundwater monitoring wells at the site, with laboratory analysis of representative samples for contaminants of concerns. Review of the results was undertaken to assess whether further sampling is warranted.

5.3 Data Quality Indicators

Investigation data were assessed against the quality indicators outlined in **Table 5-2** to assess data acceptability. Assessment of data quality is presented in **Section 6**.

Table 5-2 Data Quality Indicators

QA/QC Component	Data Quality Indicator(s)
Precision A quantitative measure of the variability (or reproducibility) of data	Data precision was assessed by reviewing the performance of blind field duplicate sample sets, through calculation of relative percentage differences (RPD). Data precision was deemed acceptable if RPDs were found to be less than 30%. RPDs that exceeded this range were considered acceptable where: ▪ Results were less than 10 times the limits of reporting (LOR); ▪ Results were less than 20 times the LOR and the RPD was less than 50%.
Accuracy A quantitative measure of the closeness of reported data to the "true" value	Data accuracy was assessed through the analysis of: ▪ Split field duplicate sample sets; ▪ Field and method blanks, for the analytes targeted in the primary samples; ▪ Matrix spike sample sets; and ▪ Laboratory control samples.
Representativeness The confidence (expressed qualitatively) that data are representative of each medium present onsite	To ensure the data produced by the laboratory were representative of conditions encountered in the field, the following measures were taken: ▪ Blank samples run in parallel with field samples, to provide confidence that there were no unacceptable instances of laboratory artefacts; ▪ Review of RPD values for field and laboratory duplicates to provide an indication that the samples were generally homogeneous, with no unacceptable instances of significant sample matrix heterogeneities; and ▪ The appropriateness of collection methodologies, handling, storage, and preservation techniques was assessed to ensure there was minimal opportunity for sample interference or degradation (i.e. volatile loss during transport due to incorrect preservation / transport methods).
Completeness A measure of the amount of useable data from a data collection activity	Analytical data sets acquired during the DSI were evaluated as complete upon confirmation that: ▪ Standard industry procedures for sampling protocols were adhered to; and ▪ Copies of all chain of custody (COC) documentation were included and found to be properly completed. It could therefore be considered whether the proportion of "useable data" generated in the data collection activities was sufficient for the purposes of the land use assessment.
Comparability The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event	Data sets from separate sampling episodes were required and issues of comparability were reduced through adherence to SOPs and regulator-endorsed or published guidelines and standards on each data gathering activity. Additionally, the data were collected by experienced samplers and NATA-accredited laboratory methodologies will be employed.

5.4 Sampling Rationale

With reference to the preliminary CSM described in **Section 4**, soil and groundwater sampling was planned in accordance with the following rationale:

- Sampling of fill and natural soils from eight borehole locations distributed in a mixed grid/targeted pattern across accessible areas of the site, to characterise *in situ* soils;
- Completion of GME at three monitoring wells, to characterise groundwater conditions; and

- Laboratory analysis of representative soil and groundwater samples for the COPC.

5.5 Assessment Criteria

The assessment criteria adopted for this DSI are outlined in **Table 5-3**. These were selected from available published guidelines that are endorsed by national or state regulatory authorities, with due consideration of the exposure scenarios that are expected for various parts of the site, the likely exposure pathways, and the identified potential receptors.

For the purposes of this DSI, the adopted soil assessment criteria are referred to as the *Soil Investigation Levels* (SILs) and the adopted groundwater assessment criteria are referred to as *Groundwater Investigation Levels* (GILs).

Table 5-3 Adopted Investigation Levels for Soil and Groundwater

Media	Criteria	Rationale
Soil	NEPC (2013) HILs, HSLs, EILs, ESLs and Management Limits for TRHs	**Health-based Investigation Levels (HILs)** NEPC (2013) *HIL-B* thresholds for residential settings with minimal opportunities for soil access. **Health-based Screening Levels (HSLs) for Vapour Intrusion** Basement footprint: NEPC (2013) *HSL-D* thresholds for commercial / industrial land use (per Section 2.4.8 Schedule B1 NEPC 2013). Outside basement footprint: NEPC (2013) *HSL-A&B* thresholds for low to high density residential land use. A soil texture classification of clay was adopted based on the site geology. **For asbestos** Presence / absence analysis for preliminary screening purposes. **Ecological Investigation Levels (EILs) / Ecological Screening Levels (ESLs)** EILs / ESLs (urban residential and public open space) were considered for the top 2 metres of soil (root zone). The EILs were derived via the addition of site specific Added Contaminant Limit and the Ambient Background Concentration for a high traffic NSW suburb. Fine grained criteria were adopted based on site geology. **Management Limits for Petroleum Hydrocarbons** Where the HSLs and ESLs for petroleum hydrocarbons were exceeded, sample results were also assessed against the NEPC (2013) *Management Limits* for the TRH fractions (F1-F4), to assess potential site management issues such as fire and explosive hazards and adverse effects on buried infrastructure.
Groundwater	ANZG (2018) GILs for Fresh Waters	**Groundwater Investigation Levels (GILs) for Fresh Waters** ANZG (2018) provides GILs for typical, slightly-moderately disturbed aquatic ecosystems, including Trigger Values (TVs) for 95% level of protection of aquatic ecosystems; however, the 99% values were applied for the bio-accumulative analytes. Groundwater migrating from the site was expected to be received by Busby Ponds, considered to represent a disturbed, fresh water feature. **Note:** The site is located within *Prohibition Area 2* and regulated under *Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024*. Groundwater cannot be used for any other purpose, except for remediation, temporary construction dewatering, testing or monitoring purposes.
	NEPC (2013)	**Health-based Screening Levels (HSLs)**

Media	Criteria	Rationale
	Groundwater HSLs for Vapour Intrusion	NEPC (2013) groundwater HSLs for vapour intrusion were used to assess potential human health impacts from residual vapours resulting from petroleum, BTEX and naphthalene impacts. The *HSL-A&B* thresholds for low to high density residential settings were applied. Fine grained soil criteria were applied.

5.6 Soil Sampling Methodology

The soil investigation works conducted at the site are described in **Table 5-4**. The borehole locations are presented in **Figure 2**, **Appendix A**.

Table 5-4 Summary of Soil Sampling Methodology

Activity/Item	Details
Fieldwork	Soil sampling works were conducted on 3 September 2025 from eight boreholes (BH101M to BH108).
Service locating	Service locating was undertaken prior to the fieldwork and after reviewing the Before You Dig Australia (BYDA) service plans, engaging a trained service locator from STS Geotechnics Pty Ltd. A scan survey was conducted at the proposed drilling locations.
Investigation Method	Test bores were advanced by a hand auger and a drill rig. Borehole details are presented in the detailed logs attached in **Appendix G**.
Soil Logging	Drilled soils were classified in the field with respect to lithological characteristics and evaluated on a qualitative basis for odour and visual signs of contamination. Soil classifications and descriptions were based on Australian Standard (AS) 1726:2017.
Field Observations	Field observations such as inclusions, odour and colour in/of recovered soil samples were noted in the borehole logs (**Appendix G**).
Field Screening for VOCs	Soil sub-samples were placed in a snap-lock plastic bag and the vapour headspace screened in the field for volatile organic compounds (VOCs) using a pre-calibrated photo-ionisation detector (PID) with a 10.6mV ionisation lamp. Calibration records are provided in **Appendix G**.
Soil Sampling	Soil samples were collected using a dry grab method (unused, dedicated nitrile gloves) and placed into laboratory-supplied, acid-washed, solvent-rinsed glass jars. A small amount of duplicate was separated from all fill samples and placed into a zip-lock bag for laboratory asbestos analysis. Blind field duplicates were separated from primary samples and placed into glass jars.
Decontamination Procedures	*Drilling Equipment* - The hand auger and drilling auger were cleared of all residual materials between each sampling location. *Sampling Equipment* – Disposable nitrile sampling gloves were changed between each sampling location and between sampling fill and natural materials at each location.
Management of Soil Cuttings	Soil cuttings were used as backfill for completed boreholes.
Sample Preservation and Transport	Samples were stored in a chilled chest (with frozen ice packs), whilst on-site and in transit to the contracted laboratories. Soil samples were transported to SGS Australia Pty Ltd (SGS; the primary laboratory) and split (inter-laboratory) soil field duplicates were submitted to Envirolab Services Pty Ltd (Envirolab; the secondary laboratory) under strict chain-of-custody (COC) conditions. Signed COC certificates and sample receipt advice (SRA) were provided by SGS and Envirolab for confirmation purposes (**Appendix G**).

Activity/Item	Details
Laboratory Analysis and Quality Control	Soil samples were analysed by SGS and Envirolab for the potential contaminants. In addition to the split (inter-laboratory) field duplicate (analysed by Envirolab), QC testing comprised one blind (intra-laboratory) field duplicate, an equipment rinsate blank, a laboratory-prepared trip spike soil sample and a laboratory-prepared trip blank soil sample, all analysed by SGS.

5.7 Groundwater Sampling

The groundwater investigation works conducted at the site are described in **Table 5-5**. Monitoring well locations are shown on **Figure 2**, **Appendix A**.

Table 5-5 Summary of Groundwater Sampling Methodology

Activity/Item	Details
Fieldwork	Three groundwater monitoring wells (BH101M to BH103M) were installed between 1 and 6 September 2025. A GME, including water level gauging, well purging, field testing and groundwater sampling, was conducted on 18 and 19 September 2025.
Well Construction	Monitoring well construction details are provided in the borehole logs (**Appendix G**). Well construction was in general accordance with NUDLC (2020) standards for environmental monitoring and involved the following: ▪ 50mm, Class 18 uPVC, threaded, machine-slotted screen and casing, with slotted intervals set to screen to at least 500mm above the standing water level to allow sampling of phase-separated hydrocarbon product, if present; ▪ base and top of each well was sealed with a uPVC cap; ▪ annular, graded sand filter was used to approximately 400mm above top of screen interval; ▪ granular bentonite was applied above annular filter to seal the screened interval; and ▪ surface completion comprised steel cover, with plastic cap.
Well Development	Well development was conducted immediately following installation. This involved agitation and water removal within the full length of the water column using a dedicated, HDPE, disposable bailer. Development was continued until no further reduction in suspected sediment was observed (i.e. after removal of several well volumes).
Well Gauging	Well headspace vapour was tested for the presence of accumulated VOCs using a calibrated, portable PID. Monitoring wells were gauged to record SWLs prior to groundwater sampling. Gauging was conducted with a water/oil interface probe.
Well Purging & Field Testing	The measurement of water quality parameters was conducted repeatedly during purging and the details were recorded onto field data sheets, until water quality parameters stabilised. Field measurements for Dissolved Oxygen (DO), Electrical Conductivity (EC), temperature, oxidation-reduction potential (ORP) and pH of the purged water were also recorded during well purging. Field test results are summarised in **Table 7-3**.
Groundwater Sampling	Groundwater samples were collected using a peristaltic low flow pump. Water was continuously measured for five parameters (Temperature, EC, ORP, DO, pH). Once three consecutive field measurements were recorded for purged water to within ± 10% for DO, ± 3% for EC, ± 0.2 units for pH, ± 0.2° for temperature and ± 20 mV for ORP, this was considered to indicate that representative groundwater quality had been achieved and final physio-chemical measurements were recorded. Groundwater samples were then collected from the low flow sampling pump discharge point. Blind field duplicates were collected together with primary samples and placed into sample containers.
Decontamination Procedure	The water level probe was washed in a solution of potable water and *Decon 90* and then rinsed with potable water.
Sample Preservation	Sample containers were supplied by the laboratory with the following preservatives: ▪ one, 1 litre amber glass, acid-washed and solvent-rinsed bottle;

Activity/Item	Details
	▪ two, 40ml glass vials, pre-preserved with dilute hydrochloric acid, Teflon-sealed; ▪ one, 250mL, HDPE bottle, pre-preserved with dilute nitric acid (1mL); and ▪ one, PFAS bottle container. Samples for metals analysis were field-filtered using 0.45 µm pore-size membranes. All containers were filled with sample to the brim then capped and stored in insulated chests (containing ice bricks), until completion of the fieldwork and during sample transit to the laboratory.
Sample Transport	After sampling, the ice brick filled chests were transported to the laboratories using strict COC procedures. SRA was provided by the laboratory to document sample condition upon receipt. Copies of the SRA and COC certificates are presented in **Appendix H**.
Laboratory Analysis and Quality Control	Groundwater samples were analysed by SGS and Envirolab for the potential contaminants. In addition to the split (inter-laboratory) field duplicate (analysed by Envirolab), QC testing comprised a blind (intra-laboratory) field duplicate, an equipment rinsate blank, a laboratory-prepared, trip spike water sample and a laboratory-prepared, trip blank water sample, all tested by SGS. Copies of the laboratory analysis results reports are presented in **Appendix H**.

6. DATA QUALITY ASSESSMENT

The assessment of data quality is defined as the scientific and statistical evaluation of environmental results to evaluate whether they meet the objectives of the project (USEPA, 2006). For this DSI, data quality assessment involved an evaluation of the compliance of the field (sampling) and laboratory procedures with established protocols, as well as the accuracy and precision of the associated results from the quality control measures. The findings are summarised in **Table 6-1**.

In summary, the overall quality of the analytical data from this DSI was considered to be of an acceptable standard for interpretive use and preparation of an updated CSM.

Table 6-1 Quality Control Process

Data Quality	Control	Conformance [Yes, Part, No]	Report Sections
Preliminaries	Data Quality Objectives established	Yes	See **Section 5.2**.
Field work	Suitable documentation of fieldwork observations including borehole logs, sample register, field notes, calibration forms	Yes	See **Appendix G**
Sampling Plan	Use of relevant and appropriate sampling plan (density, type, and location)	Yes	See sample rationale **Section 5.4**
	Identified media sampled and duplicates collected	Yes	See **Appendix I**
	Use of approved and appropriate sampling methods (soil, groundwater)	Yes	See methodology **Sections 5.6** and **5.7**
	Selection of soil samples according to field PID readings (where VOCs are present)	Yes	See methodology **Section 5.6**
	Preservation and storage of samples upon collection and during transport to the laboratory	Yes	See methodology **Sections 5.6** and **5.7**
	Appropriate Rinsate, Field and Trip Blanks taken	Yes	See methodology **Sections 5.6** and **5.7** and **Appendix I**
	Completed field and analytical laboratory sample COC procedures and documentation	Yes	See **Appendix G**
Laboratory	Sample holding times within acceptable limits	Yes	See **Appendix H**
	Use of appropriate analytical procedures and NATA-accredited laboratories	Yes	See **Appendix H**
	LOR/PQL low enough to meet adopted criteria	Yes	See laboratory reports **Appendix H**
	Laboratory blanks	Yes	See laboratory QA/QC **Appendix I**
	Laboratory duplicates	Yes	See laboratory QA/QC **Appendix I**
	Matrix spike	Yes	See laboratory QA/QC **Appendix I**

Data Quality	Control	Conformance [Yes, Part, No]	Report Sections
	Surrogates (or System Monitoring Compounds)	Yes	See laboratory QA/QC **Appendix H**
	Analytical results for replicated samples, including field and laboratory duplicates and inter-laboratory duplicates, expressed as Relative Percentage Difference (RPD)	Yes	See **Appendix I**
	Checking for the occurrence of apparently unusual or anomalous results, e.g. laboratory results that appear to be inconsistent with field observations or measurements	Yes	See **Appendices H and J**
Reporting	Report reviewed by senior staff to assess project meets desired quality, EPA guidelines and project outcomes.	Yes	See Document Control

7. RESULTS

7.1 Soil Field Results

7.1.1 Subsurface Conditions

Based on the combined borehole logs and monitoring well logs, excluding concrete hardstand surface, the soil profile can be generalised as a layer of fill (to an average depth of 0.7 mBGL), overlying residual clayey sand and sandy / silty clay (up to 5.0 mBGL) followed by shale / sandstone bedrock (from 3.0 mBGL, up to 45.14 mBGL the investigation depth). More details are provided in **Table 7-1** and borehole logs are presented in **Appendix G**.

Table 7-1 Generalised Sub-Surface Profile

Layer	Description	Termination Depth (mBGL) and Borehole Location
Hardstand	Concrete	0.13 – 0.18 (BH101M – BH108) Two layers of concrete were observed at BH107, at depths of 0-0.15 mBGL and 0.3-0.4 mBGL.
Fill	Silty SAND; fine to medium grained, brown and grey, with sub-angular to angular gravels.	1.3 (BH101M)
	Silty CLAY; dark brown, low to medium plasticity, with fine to medium grained sand, trace brick fragments, with fine to medium sub-angular to angular gravels.	0.5 (BH103M)
	Gravelly SAND; brown and grey, coarse grained sand, with angular to sub-angular gravels, glass fragments.	1.3 (BH104)
	Sandy GRAVEL; brown, angular, with coarse grained sand.	0.4 (BH105)
Residual	Sandy GRAVEL; brown, angular, with crushed sandstone, pink and brown, and synthetic fibre.	1.2+ (BH107)
	Silty CLAY; brown and pale grey with orange mottles, medium plasticity, with ironstone gravels.	3.0 (BH101M) 5.0 (BH103M)
	Sandy CLAY; yellow, low plasticity, with coarse grained sand moist.	3.0+ (BH104) 0.6+ (BH105, BH106)
	Sandy CLAY; brown, low plasticity, with coarse grained sand, water strike at 2.1 mBGL, suspected to be purged water.	2.1+ (BH107)
Bedrock	SHALE; dark grey, with coarse grained sand.	Refused at 0.15 mBGL on bedrock (BH108)
	SANDSTONE; grey, thinly bedded.	45.14+ (BH101M) 30.16+ (BH103M)

+ Termination depth of deepest borehole.

7.1.2 Field Observations and PID Results

Soil samples were collected from the test bores at various depths from 0.2 to 3.0 mBGL. All examined soils were evaluated on a qualitative basis for odour and visual signs of contamination (e.g. hydrocarbon odours, oil staining, petrochemical filming, foreign materials, asbestos fragments, ash, and charcoal) and the following observations were noted:

- No odour was detected in any of the soils recovered from the boreholes;
- No soil staining or slag was observed in any of the drilled / examined soils;
- Fibro material was observed at fill layer in BH107; and
- Photoionisation detector (PID) readings from soil headspace samples were consistently low, with readings generally below 1.2 ppm, indicating an absence of significant volatile organic contamination.

7.2 Groundwater Field Results

7.2.1 Monitoring Well Construction

Three groundwater monitoring wells (BH101M, BH102M and BH103M) were newly installed during this investigation as part of the hydrogeological assessment of the site. Well construction details are summarised in **Table 7-2**. Monitoring well logs are attached in **Appendix F**.

Table 7-2 Monitoring Well Construction Details

Well ID	Well Depth (mBGL)	Screen Interval (mBGL)	Screen Interval (mAHD)	Groundwater Seepage (mBGL)	Lithology Screened
BH101M	28.0	22.0 – 28.0	21.0 – 15.0	17.3	Sandstone
BH102M	24.8	18.8 –24.8	-	7.0	Sandstone
BH103M	25.2	19.2 –25.2	22.5 – 16.5	12.5	Sandstone

7.2.2 Field Observations

A GME was conducted on 18 and 19 September 2025. Field data recorded before sampling were presented in **Table 7-3**. Samples were evaluated on the basis of odour and visual signs of contamination, with the following observations noted:

- Groundwater was found to be generally clear in colour and low turbidity;
- Medium sulfuric odour was detected in BH101M; strong solvent odour was detected in BH102M; and no odour was detected in BH103M;
- No sheen was observed or Light, Non-Aqueous Phase Liquid (LNAPL) was observed on the sampled groundwater during sampling. Odour observations were noted, including medium sulfuric odour in one well, and a strong solvent odour in another (BH102M); and
- The measured SWLs ranged between 4.20 and 9.54 mBGL.

Table 7-3 Groundwater Field Data

Well ID	SWL (mBGL)	DO [1] (mg/L)	pH	EC [2] (µS/cm)	Temperature (°C)	Redox [3] (mV)
BH101M	9.54	0.00	5.09	798	18.54	293.5
BH102M	8.20	0.00	5.13	1,148	17.94	275.1
BH103M	4.20	1.93	9.13	489	16.90	61.2

Note 1 DO – Dissolved Oxygen.
Note 2 EC – Electrical Conductivity.
Note 3 Redox readings were adjusted to the Standard Hydrogen Electrode potential by adding field probe potential (205mV) to field readings.

Field observations indicated that the groundwater was transitioning from freshwater to slightly brackish (EC: 489-1,148 µS/cm) and slightly acidic to slightly alkaline (pH: 5.09-9.13). Corrected redox potential (Eh) ranged from 61.2 to 293.5 mV, indicating oxidising conditions within groundwater.

Measured groundwater standing water levels ranged between 4.20 and 9.54 mBGL. Based on the groundwater contours groundwater flow direction was inferred to be south-west. However, based on local topography and the direction and proximity to nearby surface water features (Busbys Pond), groundwater is anticipated to flow south-east (refer **Figure 3, Appendix A**). The discrepancy between the inferred and anticipated flow directions may reflect the influence of subsurface geological controls, such as sandstone fracturing, or variations in hydraulic pressure.

7.3 Laboratory Analytical Results

7.3.1 Soil Analytical Results

A summary of the laboratory analytical results for the tested soil samples is presented in **Table 7-4**. Detailed tabulation is presented in **Table 1**, **Appendix B**. The analytical results that were greater than the assessment criteria are shown on Figure 2, Appendix A.

Table 7-4 Summary of Soil Analytical Results

Number of Primary Samples	Analyte	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding SILs
Priority Metals				
11	Arsenic (As)	2	20	None
11	Cadmium (Ca)	<0.3	<0.3	None
11	Chromium (Cr)	1.2	100	None
11	Copper (Cu)	3.9	34	None
11	Lead (Pb)	6	160	None
11	Mercury (Hg)	0.12	0.42	None
11	Nickel (Ni)	1.2	79	None
11	Zinc (Zn)	7.1	84	None
BTEX				
11	Benzene	<0.1	<0.1	None
11	Toluene	<0.1	<0.1	None
11	Ethylbenzene	<0.1	<0.1	None
11	Total xylenes	<0.3	<0.3	None
TRH				
11	F1	<25	88	HSL A & B - 50 mg/kg BH108_0.2-0.3 (88 mg/kg)
11	F2	<25	48	None
11	F3	<90	160	Ecological ESL - 300 mg/kg BH103M_0.5-0.6 (450 mg/kg)

Number of Primary Samples	Analyte	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding SILs
				BH107_0.4-0.5 (760 mg/kg)
11	F4	<120	230	None
11	TRH C6-C9	<25	70	<25[1]
11	TRH C6-C10	<25	88	<25
11	TRH C10-C14	<20	73	<25
11	TRH C15-C28	<45	410	<25
11	TRH C29-C36	<45	440	<25
11	TRH C37-C40	<100	150	<25
11	TRH >C10-C16	<25	48	<25
PAHs				
11	Carcinogenic PAHs	0.5	1.7	None
11	Benzo(a)pyrene (B(a)P)	0.4	1.2	Ecological ESL - 0.7 mg/kg BH103M_0.5-0.6 BH104_0.3-0.4
11	Naphthalene	<0.1	<0.1	None
11	Phenanthrene	<0.1	0.8	0.1 [1]
11	Anthracene	<0.1	0.2	0.1
11	Fluoranthene	<0.1	1.4	0.1
11	Pyrene	<0.1	1.4	0.1
11	Benzo(a)anthracene	<0.1	0.8	0.1
11	Chrysene	<0.1	0.9	0.1
11	Benzo(b&j)fluoranthene	<0.1	0.8	0.1
11	Benzo(k)fluoranthene	<0.1	0.7	0.1
11	Indeno(1,2,3-cd)pyrene	<0.1	0.9	0.1
11	Dibenzo(ah)anthracene	<0.1	0.2	0.1
11	Benzo(ghi)perylene	<0.1	0.6	0.1
11	Total PAHs	3	9.8	None
VOCs				
7	Tetrachloroethe (Perchloroethylne ,PCE)	<0.1	0.2	None

[1]Laboratory Detection Limit will be used in the absence of specific criteria.

Number of Primary Samples	Analyte	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding SILs
OCPs, OPPs and PCBs				
7	Total OCPs	<1	<1	None
7	Total OPPs	<1.7	<1.7	None
7	Total PCB	<1	0.3	None
Asbestos				
7	Presence / Absence	Not Detected	Detected	Chrysotile asbestos found as approx. 3.35g fibrous material in BH107_0.4-0.5.
Total Characteristics Leaching Procedure (TCLP)[2]				
1	B(a)P	-	<0.1 (mg/L)	No leachability exceedance at BH103M_0.5-0.6
1	Pb	-	0.88 (mg/L)	No leachability exceedance at BH101M_0.4-0.5
1	Ni	-	0.068 (mg/L)	No leachability exceedance at BH105M_0.2-0.3

7.3.2 Groundwater Analytical Results

A summary of the laboratory analytical results for the groundwater samples is presented in **Table 7-5**. Detailed tabulation is presented in **Table 2**, **Appendix B**. The analytical results that were greater than the assessment criteria are shown on **Figure 3, Appendix A**.

Table 7-5 Summary of Groundwater Analytical Results

Number of Primary Samples	Analyte	Minimum Concentration (µg/L)	Maximum Concentration (µg/L)	Samples Exceeding GILs
Priority Metals				
3	Arsenic	<1	<1	None
3	Cadmium	<0.1	0.1	None
3	Chromium	<1	<1	None
3	Copper	1	11	Fresh Water 1.4 µg/L GW_BH102M_1 (11 µg/L)
3	Lead	<1	<1	None
3	Mercury	<0.1	<0.1	None
3	Nickel	<1	11	None
3	Zinc	<5	78	Fresh Water 8 µg/L GW_BH102M_1(78 µg/L)
BTEX				
3	Benzene	<0.5	<0.5	None
3	Toluene	1.0	1.5	None

[2] TCLP = Toxicity Characteristics Leaching Procedure. *Waste Classification Guidelines Part 1: Classifying waste (NSW EPA, 2014)* was applied in relation to the TCLP testing.

Number of Primary Samples	Analyte	Minimum Concentration (µg/L)	Maximum Concentration (µg/L)	Samples Exceeding GILs
3	Ethylbenzene	<0.5	<0.5	None
3	Total xylenes	<1.5	<1.5	None
TRH				
3	TRH C10-C14	75	270	Laboratory detection limit [1]: 50 µg/L GW_BH101M_1 (75 µg/L) GW_BH102M_1 (270 µg/L) GW_BH103M_1 (100 µg/L)
3	TRH C15-C28	<200	330	Laboratory detection limit [1]: 200 µg/L GW_BH102M_1 (330 µg/L) GW_BH103M_1 (320 µg/L)
3	TRH C29-C36	<200	230	Laboratory detection limit [1]: 200 µg/L GW_BH103M_1 (230 µg/L)
3	TRH >C10-C16	82	290	Laboratory detection limit [1]: 60 µg/L GW_BH101M_1 (82 µg/L) GW_BH102M_1 (290 µg/L) GW_BH103M_1 (120 µg/L)
3	F1	<50	260	Laboratory detection limit [1]: 50 µg/L GW_BH102M_1 (260 µg/L)
3	F2	81	290	Laboratory detection limit [1]: 60 µg/L GW_BH101M_1 (81 µg/L) GW_BH102M_1 (290 µg/L) GW_BH103M_1 (120 µg/L)
3	F3	<500	510	Laboratory detection limit [1]: 500 µg/L GW_BH103M_1 (510 µg/L)
3	F4	<500	<500	None
VOCs				
3	Chloroform (trihalomethane THM)	<0.5	3.9	None
3	Isopropylbenzene (Cumene)	<0.5	1.4	None
3	Carbon Disulfide	<2	3	None
3	cis-1,2-dichloroethene (DCE)	<0.5	30	None

Number of Primary Samples	Analyte	Minimum Concentration (µg/L)	Maximum Concentration (µg/L)	Samples Exceeding GILs
3	1,3,5-trimethylbenzene	<0.5	34	None
3	1,2,4-trimethylbenzene	<0.5	37	None
3	p-isopropyltoluene	<0.5	2.6	None
3	n-butylbenzene	<0.5	1.3	None
3	Trichloroethene (Trichloroethylene, TCE)	<0.5	0.6	None
3	n-propylbenzene	<0.5	3.4	None
3	Total VOC	<10	110	None
PAH				
3	Benzo(a)pyrene	<0.1	<0.1	None
3	Naphthalene	<0.1	0.3	None
3	Total PAH	<1	<1	None

7.3.3 Vapour Intrusion Screening Levels (VISL) Calculated Results

Vapour Intrusion Screening Levels (VISL) calculations were carried out for elevated VOCs in groundwater under a residential land use scenario using the United States Environmental Protection Agency VISL Calculator[3]. This land use scenario is considered conservative given the ground floor will not be residences under the proposed development design. The calculated VISL results are summarised in **Table 7-6** with the full report presented in **Appendix J**.

Table 7-6 Summary of VISL Calculated Results

Chemical	Does the chemical meet the definition for volatility	Maximum Concentration (µg/L)	Is the chemical sufficiently volatile and toxic to pose inhalation risk via vapour intrusion from soil source	Is the chemical sufficiently volatile and toxic to pose inhalation risk via vapour intrusion from groundwater source
cis-1,2-dichloroethene (DCE)	Yes	30	Potentially	Potentially
1,3,5-trimethylbenzene	Yes	34	Potentially	Potentially
1,2,4-trimethylbenzene	Yes	37	Potentially	Potentially
n-butylbenzene	Yes	1.3	Potentially	Potentially
Trichloroethene (Trichloroethylene,TCE)	Yes	0.6	Potentially	Potentially
n-propylbenzene	Yes	3.4	Potentially	Potentially

[3] Reference: https://epa-visl.ornl.gov/cgi-bin/visl_search

8. SITE CHARACTERISATION

8.1 Subsurface Conditions

The general site lithology encountered was a layer of concrete hardstand between 0.13 and 0.18m in thickness, fill (to an average depth of 0.7 mBGL), overlying residual clayey sand and sandy / silty clay (up to 5.0 mBGL) followed by shale / sandstone bedrock (from 3.0 mBGL, up to 45.14 mBGL the investigation depth). No obvious signs of potential contamination (such as ACM, odours or staining) were observed in the soils recovered from the boreholes.

8.2 Soil

Soil assessment at the site indicated the following:

- A range of PAHs (both volatile and non-volatile) were detected in soil samples at low concentrations below the adopted human health criteria, indicating the potential presence of petroleum products. The following analytes were detected in fill samples at BH101M_0.4-0.5, BH103M_0.5-0.6, BH104_0.3-0.4 and/or the natural sample, BH102M_0.3-0.4:
  - Phenanthrene;
  - Anthracene;
  - Fluoranthene;
  - Pyrene;
  - Benzo(a)anthracene;
  - Chrysene;
  - Benzo(b&j)fluoranthene;
  - Benzo(k)fluoranthene;
  - Indeno(1,2,3-cd)pyrene;
  - Dibenzo(ah)anthracene;
  - Benzo(ghi)perylene; and
  - Benzo(a)pyrene.
- Benzo(a)pryrene was detected in two shallow fill samples at concentrations that exceeded the adopted ecological criteria (BH103M_0.5-0.6 and BH104_0.3-0.4).
- TRH were detected in fill and natural samples below the adopted site criteria (indicating the potential presence of petroleum products) with the following exceptions:
  - TRH Fraction F1 marginally exceeded the adopted human health criteria in shallow fill at BH108_0.2-0.3; and
  - TRH Fraction F3 exceeded the adopted ecological criteria in shallow fill at BH30M_0.5-0.6 and BH107_0.4-0.5.
- Tetrachloroethene (PCE) concentration was detected in fill at BH105 at a very low concentration, the source of which is unknown.
- Concentrations of heavy metals were reported below the adopted human health and ecological criteria.
- BTEX compounds were not detected in the analysed soil samples.

- OCPs and OPPs were not detected in the tested soil samples.
- PCB were detected in fill in sample BH107_0.4-0.5 below the adopted human health criteria, the source of which is unknown.
- Fibrous asbestos was detected in shallow fill in sample BH107_0.4-0.5.
- Toxicity Characteristics Leaching Procedure (TCLP) analysis on select soil samples indicated no exceedances of leachability criteria for benzo(a)pyrene, lead, or nickel.

8.3 Groundwater

Laboratory analytical results for the collected groundwater samples indicated the following:

- TRH concentrations exceeding the laboratory detection limits were detected in all groundwater samples, some which exceeded the adoped ecological site assessment criteria;
- BTEX compounds (toluene and m/p-xylene), PAHs (naphthalene) and VOCs (THM) were present at concentrations above laboratory detection limits. The adopted GILs were not exceeded;
- A range of VOCs were detected in groundwater sample GW_BH102, indicating the presence of both chlorinated and petroleum-related hydrocarbons, indicating both chlorinated and petroleum-related hydrocarbon impacts, and suggesting mixed or historical contaminant sources. This location is considered likely to be hydraulically down-gradient of a suspected disused or decommissioned on-site UPSS.
- VOCs (as Carbon disulfide and 1,2,4-trimethylbenzene) were detected at low concentrations in groundwater sample GW_BH103M_1.

8.4 Review of Conceptual Site Model

On the basis of the DSI findings, the CSM discussed in **Section 4** was considered to appropriately identify contamination sources, migration mechanisms and exposure pathways, as well as potential on-site and off-site receptors.

A revised CSM which evaluates plausible contamination source - exposure pathway - receptor (SPR) linkages is presented in **Table 8-1**. Based on the revised CSM, potential future risks associated with plausible SPR linkages have been identified. The subsequent field (sampling and analytical) component of this investigation supports this hypothesis.

Table 8-1 Revised Conceptual Site Model

Potential Sources	Impacted Media	COPC	Potential Transport Mechanisms	Potential Exposure Pathways	Potential Site Receptors	Potential Source-Pathway-Receptor (SPR) Linkages
Former and current on-site commercial activities Importation of fill of unknown origin and quality Hazardous building materials Application of pesticides Leakage from vehicles Migration from off-site sources	Soil	PMs, TRHs, VOCs (VCH and BTEX), PAHs, OCP/OPP, PCB and asbestos	Disturbance of surface and subsurface soils during site redevelopment, future site maintenance and future use of the site post redevelopment	Ingestion Dermal contact Inhalation of particulates Inhalation of vapours	Current and future site users Demolition / construction workers Adjacent site users Future intrusive workers	**Potentially Yes.** Low-level petroleum-related hydrocarbons were identified in soil, generally below human health criteria. A marginal hydrocarbon exceedance and asbestos presence present potential risks via direct contact, dust inhalation, or incidental ingestion. Overall, risks to human receptors are considered low but further investigation and appropriate management controls are considered warranted. Appropriate demolition, excavation, and soil handling controls will minimise contamination risk associated with hazardous building materials (if present).
			Atmospheric dispersion from soil to outdoor and indoor air spaces			
			Volatilisation of contamination from soil and diffusion to indoor air spaces			
		PM, TRH, BTEX, PAH, PCB, OCP, OPP	Roots absorption of bioavailable compounds from impacted soils.	Biota uptake	Ecological receptors in areas of exposed soil/landscaping	**Unlikely.** On-site ecological receptors (flora and fauna) are not considered relevant to the proposed future land use because they are typically of low sensitivity/value in an urban setting, and there will be minimal landscaped areas based on the proposed development design. Additionally, shallow fill in the landscaping areas is likely to be removed as part of site redevelopment.
	Groundwater	PM, TRH, BTEX, VOCs, PAH	Volatilisation of contamination from groundwater to indoor or outdoor air spaces (onsite and offsite)	Inhalation of vapours	Current and future site users Demolition / construction workers Adjacent site users Future intrusive workers	**Potentially Yes.** Petroleum-related hydrocarbons and volatile organic compounds were detected in groundwater, including chlorinated constituents. Although guideline values were not exceeded, potential risks to human receptors may arise through vapour intrusion, dermal contact, or ingestion if exposure pathways are established. Overall risk is considered low under, but further investigation and appropriate management measures are considered warranted.
			Disturbance of surface soils during site redevelopment, future site maintenance and future use of the site post redevelopment	Ingestion Dermal contact	Demolition / Excavation/ construction workers Future intrusive workers	
			Migration of dissolved phase impacts in groundwater via diffusion and advection	Biota uptake	Ecological communities located downgradient of the site (Busbys pond.)	**No.** Low concentrations reported and Busbys Pond is more than 500 metres away from the site.

8.5 Data Gaps

Based on the site characterisation and CSM, the following uncertainties and data gaps still require closure:

- The vertical and lateral extent of fibrous asbestos at BH07 and TRH (F1 Fraction) exceeding the adopted human health criteria at BH108 is not known.
- In accordance with the *NSW EPA Sampling Design Guideline Part 1 – Application*, ten sampling locations were proposed for the subject site, which has a total area of 3,413 m^2. However, due to the site access limitations, only eight sampling locations were completed during this investigation, as shown in **Figure 2**, **Appendix A**.
- Soil conditions under the building structures, pavements and inaccessible areas of the site have not been investigated.
- VOC compounds were identified as sufficiently volatile and toxic to warrant consideration for vapour intrusion pathways from both soil and groundwater sources. These results indicate that vapour intrusion represents a potential risk pathway that may require further assessment depending on future land use and development scenarios.
- A GPR survey was conducted in the area surrounding the known or suspected location of the UPSS. The survey did not detect any signals indicating the presence of active UPSS. However, due to limitations not having UPSS records, the exact size, configuration and location of potential current or historical on-site UPSS remains unknown.

9. CONCLUSIONS

The site located at 47 - 97 Marlborough Street, Surry Hills NSW was the subject of a DSI, conducted in order to assess the nature and degree of on-site contamination. The key findings of this DSI are presented as follows:

- The desktop review indicated that the site's central and southern portions have retained building structures since at least 1943, while the northern portion changed from possible residential use to a car park by 1975. Since the late 1990s, the site and surrounding area have remained largely unchanged, with stable land use and building footprints over time.
- Searches of the NSW EPA's online public registers for statutory notices and licensing information indicated:
  - The site is not listed on the contaminated land public record;
  - No regulatory notices apply to the site; and
  - No relevant notices apply to land within close proximity of the site.
- A search of the POEO Act 1997 public register indicated that that neither the site nor surrounding land within 250 metres is listed on the register.
- No nearby properties considered likely to pose a significant off-site contamination risk were identified during this DSI, based on their distance and/or direction relative to the site. It is noted that one dry cleaner business was identified 93m south-west of the site (anticipated to be hydraulically cross-gradient of the site).
- ASS are not known or expected to occur at the site.
- Groundwater is anticipated to flow south-easterly direction.
- <u>Soil:</u>
  - During intrusive investigation of the site, concrete hardstand was encountered at 0.13–0.18 mBGL overlying fill to an approximately 0.7 mBGL. BH107 intersected two concrete layers, indicating staged development. Residual soils (sandy gravel and clay) extended from approximately 1.2 to 5.0 mBGL, underlain by shale and sandstone bedrock. Minor anthropogenic materials were noted, with no visual contamination indicators.
  - PID readings of sample headspaces were low, indicating no significant VOC impacts.
  - A range of PAH compounds were detected in analysed soil samples of fill and natural materials. Concentrations were generally below adopted human health criteria, indicating low-level petroleum-related impacts.
  - Benzo(a)pyrene exceeded the adopted ecological criteria in shallow fill at two locations.
  - PCE, a chlorinated solvent was detected at a low concentration in one analysed sample.
  - TRH were detected in both fill and natural soils, generally below site criteria. However, isolated exceedances were recorded for TRH Fraction F1 (marginally above human health criteria) and TRH Fraction F3 (above ecological criteria). The lateral and vertical extent of these exceedances has not yet been delineated.
  - On-site ecological receptors (flora and fauna) are not considered relevant to the proposed future land use because they are typically of low sensitivity/value in an urban setting, and there will be minimal landscaped areas based on the proposed

development design. Additionally, shallow fill in the landscaping areas is likely to be removed as part of site redevelopment.

- All other COPC were reported at concentrations below the adopted site assessment criteria.
- Fibrous asbestos was identified in shallow fill at one location. The extent of asbestos-impacted material has not been delineated and is considered to warrant further assessment and/or management.
- TCLP analysis on select soil samples indicated no exceedances of leachability criteria for benzo(a)pyrene, lead, or nickel.

- Groundwater:
  - Groundwater monitoring wells were screened within sandstone bedrock at depths between approximately 18.8 and 28.0 mBGL. Groundwater seepage was encountered between 7.0 and 17.3 mBGL during drilling. Static groundwater water levels ranged from 4.22 to 9.60 mBGL. No visible sheen or Light, Non-Aqueous Phase Liquid was observed in groundwater during sampling. Odour observations were noted, including medium sulfuric odour in one well, and a strong solvent odour in another (BH102M).
  - TRH were detected above laboratory detection limits in all groundwater samples, indicating the presence of petroleum-related hydrocarbons. Some results exceeded adopted ecological criteria but were reported concentrations were low.
  - VOC and PAH compounds were detected, but did not exceed adopted groundwater investigation levels, suggesting low human health risk under proposed exposure assumptions.
  - A broader range of VOCs in one location (BH102M) indicates both chlorinated and petroleum-related hydrocarbon impacts, suggesting mixed or historical contaminant sources. This location is considered likely to be hydraulically down-gradient of a suspected disused or decommissioned on-site UPSS.
  - Low concentrations of additional VOCs, including carbon disulfide and 1,2,4-trimethylbenzene were identified at other locations, supporting evidence of localised groundwater impacts.
- Based on the revised CSM, potential future risks associated with plausible SPR linkages were identified.
- The overall risk presented by the reported soil and groundwater exceedances are considered to be low, however, further investigation and appropriate management measures are considered warranted, to close the following identified data gaps:
  - The vertical and lateral extent of identified fibrous asbestos and TRH (F1) impacts exceeding the adopted human health criteria remains undefined;
  - A limited number of sampling locations were completed due to site access constraints;
  - Subsurface conditions beneath buildings, pavements and inaccessible areas were not assessed;
  - Detected VOCs present potential vapour intrusion risks, requiring consideration in future development scenarios, and
  - A GPR survey did not confirm suspected on-site UPSS; however, absence of records limits certainty regarding historical or existing systems.

It is considered that the site can be made suitable for the proposed mixed use development (residential and commercial) in the context of the following:

- the findings of this DSI and the CSM;

- the nature of the proposed site redevelopment design;
- subject to the successful implementation of the recommendations provided in **Section 10.** EI notes that these recommendations can be incorporated into the planning and consent process for the proposed development; and
- with reference to EI's *Statement of Limitations* (**Section 11**).

10. RECOMMENDATIONS

EI provides the following recommendations in relation to the proposed redevelopment of the site:

- Preparation and implementation of a Remediation Action Plan (RAP) based on the findings of this DSI and in accordance with NSW EPA endorsed guidance, which should include (but not be limited to):
  - A strategy for the further assessment, remediation and/or management of the identified contamination in site soils that are considered to pose a potentially unacceptable risk to site receptors;
  - A Sampling and Analysis Quality Plan (SAQP) for a Data Gap Investigation (DGI) to achieve this and close out the other existing data gaps for the site with respect to site contamination risk (refer **Section 8.5**);
  - A SAQP for the validation of the site as being suitable for the proposed site redevelopment; and
  - A waste management plan to classify waste and imported material (including surplus and remedially excavated soil) to be removed from the site, in accordance with the EPA (2014) *Waste Classification Guidelines*; and
  - An Unexpected Finds Protocol to address unforeseen contingencies that may arise.
- Before commencement of any demolition works, a hazardous materials survey (HMS) should be completed by a suitably qualified consultant, to identify hazardous materials present within the existing building fabrics.
  - If present, identified hazardous materials must be appropriately managed, to maintain worker health and safety during demolition works and prevent the spread of hazardous substances.
  - An asbestos clearance inspection and certificate should be completed by a suitably qualified professional (SafeWork NSW Licensed Asbestos Assessor) following the removal of all ACM from the site (if present).
  - Where clearance inspection indicates the presence of hazardous materials remaining on the site, further removal and validation works must be undertaken.
- Following completion of the demolition stage (including building, surface pavement and vegetation removal), an inspection of the ground surface across the site should be performed by a suitably qualified environmental consultant, to check for visible signs of contamination (in particular fragments of or ACM). This inspection could coincide with the asbestos clearance task (if required).
- Implementation of the remediation and validation works for the site, as outlined in the RAP.
- Preparation of a final site validation report by a qualified environmental consultant, certifying the site suitability for the proposed development.
- If contamination is proposed to remain on the site (e.g. via capping), a Long Term Environmental Management Plan (LTEMP) must be prepared for the site in accordance

with the CLM Act 1997, NSW EPA contaminated land guidelines, and the *National Environment Protection (Assessment of Site Contamination) Measure* (NEPC, 2013) framework.

EI notes that these recommendations can be managed through the development *application/approval process, in accordance with State Environmental Planning Policy (Resilience and Hazards) 2021.*

Any future development would need to consider this policy and other NSW EPA endorsed contaminated land and waste guidelines as part of the development application process.

Should the site be subject to significant proposed design changes or redevelopment as part of any additional future development applications, additional investigation may be required to assess potential contamination risks.

11. STATEMENT OF LIMITATIONS

This report has been prepared for the exclusive use of M House Surry Pty Ltd (the 'client'), the only intended beneficiary of EI's work. The scope of the investigation carried out for the purpose of this report was limited to that agreed with the client.

No other party should rely on this document without the prior written consent of EI, and EI undertakes no duty, or accepts any responsibility or liability, to any third party who purports to rely upon this document without EI's approval.

The findings presented in this report are the result of discrete and specific sampling methodologies used in accordance with best industry practices and standards. Due to the site-specific nature of soil sampling from point locations, it is considered likely that all variations in subsurface conditions across a site cannot be fully defined, no matter how comprehensive the field investigation program.

While normal assessments of data reliability have been made, EI assumes no responsibility or liability for errors in any data obtained from previous assessments conducted on site, regulatory agencies (e.g. Council, NSW EPA), statements from sources outside of EI, or developments resulting from situations outside the scope of works of this project.

Despite all reasonable care and diligence, the ground conditions encountered and concentrations of contaminants measured may not be representative of conditions between the locations sampled and investigated. In addition, site characteristics may change at any time in response to variations in natural conditions, chemical reactions and other events, e.g. groundwater movement and or spillages of contaminating substances. These changes may occur subsequent to EI's investigations and assessment.

EI's assessment is necessarily based upon the result of the site investigation and the restricted program of surface and subsurface sampling, screening and chemical testing which was set out in the proposal. Neither EI, nor any other reputable consultant, can provide unqualified warranties nor does EI assume any liability for site conditions not observed or accessible during the time of the investigations.

This report was prepared for the above named client and no responsibility is accepted for use of any part of this report in any other context or for any other purpose or by other third parties. This report does not purport to provide legal advice.

This report and associated documents remain the property of EI subject to payment of all fees due for this assessment. The report shall not be reproduced except in full and with prior written permission by EI.

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ABBREVIATIONS

ACM	Asbestos-Containing Materials
AS	Australian Standard
ASS	Acid Sulfate Soils
AST	Above-ground Storage Tank
B(a)P	Benzo(a)Pyrene (a PAH compound), - B(a)P TEQ Toxicity Equivalent Quotient
BH	Borehole
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CLM	Contaminated Land Management
COC	Chain of Custody
CSM	Conceptual Site Model
DA	Development Application
DO	Dissolved Oxygen
DP	Deposited Plan
DQI	Data Quality Indicators
DQO	Data Quality Objectives
DSI	Detailed Site Investigation
EC	Electrical Conductivity
Eh	Redox potential
EI	EI Australia
EIL	Ecological Investigation Level
ESL	Ecological Screening Level
F1	C_6-C_{10} TRH less sum of BTEX concentrations
F2	>C_{10}-C_{16} TRH less naphthalene
F3	>C_{16}-C_{34} TRH
F4	>C_{34}-C_{40} TRH
FFL	Finished Floor Level
GIL	Groundwater Investigation Level
GME	Groundwater Monitoring Event
HEPA	Heads of the EPAs Australia and New Zealand
HDPE	High Density Polyethylene
HIL	Health-based Investigation Level
HSL	Health-based Screening Level
km	Kilometres
LDPE	Low Density Polyethylene
LEP	Local Environmental Plan
LGA	Local Government Area
LNAPL	Light, non-aqueous phase liquid (also referred to as PSH)
LOR	Limit of Reporting (of corresponding laboratory analytical method)
m	Metres
mAHD	Metres Australian Height Datum
mBGL	Metres Below Ground Level
mg/L	Milligrams per litre
µg/L	Micrograms per litre
mV	Millivolts
NATA	National Association of Testing Authorities, Australia
NEMP	National Environmental Management Plan
NEPC	National Environmental Protection Council
NEPM	National Environmental Protection Measures
NSW	New South Wales
OCP	Organochlorine Pesticides

OPP	Organophosphorus Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PFAS	Per- and Poly- Fluoroalkyl Substances
pH	Potential Hydrogen (a measure of the acidity or basicity of an aqueous solution)
PID	Photo-Ionisation Detector
POEO	Protection of the Environment Operations
PPE	Personal Protective Equipment
ppm	Parts per milion
PQL	Practical Quantitation Limit (limit of detection for respective laboratory instruments)
PSH	Phase-Separated Hydrocarbons (also referred to as LNAPL)
QA/QC	Quality Assurance / Quality Control
RAP	Remediation Action Plan
Redox	Reduction-Oxidation Potential
RPD	Relative Percentage Difference
SAQP	Sampling and Analysis Quality Plan
SEPP	State Environment Planning Policy
SIL	Soil Investigation Level
SOP	Standard Operating Procedure
SRA	Sample Receipt Advice (document confirming laboratory receipt of samples)
SWL	Standing Water Level
T	Temperature
TCLP	Toxicity Characteristics Leaching Procedure
TEQ	Toxicity Equivalent Quotient
THM	Trihalomethanes
TRH	Total Recoverable Hydrocarbons (non-specific analysis of organic compounds)
UCL	Upper Confidence Limit of the mean
ULP	Unleaded Petrol
UPSS	Underground Petroleum Storage System
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds (specific organic compounds which are volatile)

Appendix A - Figures



Buckingham Street
Elizabeth Street
Devonshire Street
Riley Street
Crown Street
Bourke Street
Belvoir Street
Belvoir Street
Marlborough Street
High Holborn Street
Goodlet Street
Crown Street
Eastern Distributor
Pitt Street
Chalmers Street
Great Buckingham Street
James Street
Cleveland Street
Bourke Street
South Dowling Street
South Dowling Street
Elizabeth Street
Walker Street
Cooper Street
Morehead Street
Wells Street
Young Street
Baptist Street
Stanley Street
Redfern Street
Redfern
Boronia Street
Cleveland Street

0 125 250 375 500 m

LEGEND **Note: All locations are approximate**

Site Boundary

eiaustralia
Practical Solutions for Built Environments
Suite 6.01, 55 Miller Street, PYRMONT 2009
Ph (02) 9516 0722 Fax (02) 9518 5088

Drawn:	N.J.
Approved:	R.L.
Date:	24/03/2026

M House Surry Pty Ltd

Detailed Site Investigation

47-97 Marlborough Street, Surry Hills NSW 2010

Site Locality Plan

Figure: 1

Project: E26534.E02

KEY

Notes:
All soil concentrations are in mg/kg.

= Exceedance of Human Health Based Criteria
= Exceedance of Ecological Based Criteria

Soil Exceedances		BH108
Sampling Depth (m BGL)		0.4-0.5
F1	mg/kg	88

Soil Exceedances		BH107
Sampling Depth (m BGL)		0.4-0.5
F3	mg/kg	760
Asbestos		Present

Soil Exceedances		BH103M
Sampling Depth (m BGL)		0.5-0.6
F3	mg/kg	450

BH101M
BH1M
BH106
BH104
BH105
BH102m
BH108
BH107
BH103M
BH2

0 10 20 30 50
Approx. Scale (m)

Map Source: Six Maps website, accesed on 2 October 2024

LEGEND (All Locations are Approximate)

- Site Boundary
- Proposed basement boundary
- Proposed deep soil zone
- Borehole / monitoring well location
- Borehole location
- Suspected UPSS location
- Transformer

eiaustralia
Contamination | Remediation | Geotechnical
Suite 6.01, 55 Miller Street, PYRMONT 2009
Ph (02) 9516 0722 Fax (02) 9518 5088

Drawn:	L.C.
Approved:	-
Date:	19-02-26

M House Surry Pty Ltd
Detailed Site Investigation
47-97 Marlborough Street, Surry Hillls NSW
Soil Exceedance Plan

Figure: 2

Project: E26534.E02

KEY

Notes:
All groundwater concentrations are in µg/L.

= Exceedance of Freshwater guideline

Sample ID	Chemical analytes	Conc. (µg/L)
GW_BH101M_1	TRH C10-C14	75
	TRH >C10-C16	82
	F2	81
	Chloroform (THM) #	0.6

Sample ID	Chemical analytes	Conc. (µg/L)
GW_BH102M_1	F1	260
	TRH C10-C14	270
	TRH C15-C28	330
	TRH >C10-C16	290
	F2	290
	Isopropylbenzene (Cumene)	1.4
	cis-1,2-dichloroethene	30
	1,3,5-trimethylbenzene	34
	1,2,4-trimethylbenzene	87
	p-isopropyltoluene	2.6
	n-butylbenzene	1.3
	Trichloroethene (Trichloroethylene, TCE)	0.6
	n-propylbenzene	3.4
	Total VOC	110

Sample ID	Chemical analytes	Conc. (µg/L)
GW_BH103M_1	TRH C10-C14	100
	TRH C15-C28	320
	TRH C29-C36	230
	TRH >C10-C16	120
	F2	120
	F3	510
	Chloroform (THM) #	3.9
	Carbon Disulfide	3
	1,2,4-trimethylbenzene	0.5

BH101M
BH1M
BH102m
BH103M

40
41
39
38

0 10 20 30 50
Approx. Scale (m)

Map Source: Six Maps website, accesed on 2 October 2024

LEGEND (All Locations are Approximate)

- Site Boundary
- Proposed basement boundary
- Proposed deep soil zone
- Borehole / monitoring well location
- Borehole location
- Outline of suspected UPSS
- Anticipated groundwater flow direction

eiaustralia
Contamination | Remediation | Geotechnica
Suite 6.01, 55 Miller Street, PYRMONT 2009
Ph (02) 9516 0722 Fax (02) 9518 5088

Drawn:	L.C.
Approved:	-
Date:	12-11-25

M House Pty Ltd
Detailed Site Investigation
47-97 Marlborough Street, Surry Hillls NSW
Groundwater Exceedance Plan

Figure: 3

Project: E26534.E02

Appendix B – Results Tables

Table B.1 – Summary of Soil Test Results

Sample ID	Material Description	Sampling Date	Metals								PAHs															VOC	BTEX				TRHs																Total VOCs	Pesticides		Total PCBs	Asbestos
			As	Cd	Cr[#]	Cu	Pb	Hg	Ni	Zn	Carcinogenic PAHs (as B(a)P TEQ)	Benzo(a)pyrene	Total PAHs	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b&j)fluoranthene	Benzo(k)fluoranthene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(ghi)perylene	Naphthalene	Tetrachloroethene (Perchloroethylene;PCE)	Benzene	Toluene	Ethylbenzene	Total Xylenes	C6-C9	C10-C36	TRH C6-C9	TRH C6-C10	TRH C10-C14	TRH C15-C28	TRH C29-C36	TRH C37-C40	TRH >C10-C16	F1	F2	F3	F4		OCPs	OPPs		Presence / Absence
Fill																																																	
BH101M_0.4-0.5	Silty SAND; brown and grey, fine to medium grained, with angular to subangular gravels.	2/09/2025	2	<0.3	2.7	12	160	0.12	9.1	84	0.5	0.4	3	0.2	<0.1	0.4	0.4	0.3	0.2	0.3	0.3	0.3	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3			<20	<25	<20	<45	<45	<100	<25	<25	<25	<90	<120	<24	<0.1	<1.7	<0.1	No
BH103M_0.5-0.6	Silty CLAY; grey / brown / orange, medium plasticity, with fine to medium grained sand and angular gravels, trace brick fragments.	3/09/2025	2	<0.3	3.4	18	49	<0.05	7.9	33	1.7	1.2	8.1	0.3	<0.1	0.9	1.1	0.8	0.8	0.7	0.7	0.9	0.2	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3			<20	<25	<20	180	320	<100	<25	<25	<25	450	130	<24	<0.1	<1.7	<0.1	No
BH104_0.3-0.4	Gravelly SAND; brown and grey, coarse grained sand, with angular to sub-angular gravels, glass fragments.		2	<0.3	1.2	9.9	69	0.42	1.2	61	1.6	1.1	9.8	0.8	0.2	1.4	1.4	0.8	0.9	0.8	0.7	0.9	0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3			<20	<25	<20	<45	<45	<100	<25	<25	<25	<90	<120	<24	<0.1	<1.7	<0.1	No
BH105_0.2-0.3	Sandy GRAVEL; brown, angular gravels, with coarse grained sand.		2	<0.3	100	23	6	<0.05	79	67	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.3			<20	<25	<20	<45	<45	<100	<25	<25	<25	<90	<120	<24	<0.1	<1.7	<0.1	No
BH106_0.2-0.3	Sandy CLAY; orange with grey mottles, fine to coarse grained sand, high plasticity.		2	<0.3	84	29	12	<0.05	72	58	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3			<20	<25	<20	<45	<45	<100	<25	<25	<25	<90	<120	<24	<0.1	<1.7	<0.1	No
BH107_0.4-0.5	Sandy GRAVEL; with crushed sandstone, pink and brown, synthetic fibre.		3	<0.3	11	11	30	0.12	4.2	69	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3			<20	<25	<20	410	440	150	<25	<25	<25	760	230	<24	<0.1	<1.7	0.3	Presence*
BH108_0.2-0.3	Gravelly SAND; dark grey, coarse grained sand, with shale.		11	<0.3	5.7	25	25	<0.05	12	82	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3			70	88	73	<45	<45	<100	48	88	48	<90	<120	<24	<0.1	<1.7	<0.1	No
Natural																																																	
BH101M_1.4-1.5	Silty CLAY; red / brown with mottled orange, high plasticity, with ironstone gravels.	2/09/2025	3	<0.3	17	14	19	<0.05	1.2	11	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	<0.1	<0.1	<0.1	<0.3			<20	<25	<20	<45	<45	<100	<25	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.
BH102M_0.3-0.4	Sandy CLAY; reddish yellow, medium to high plasticity, sandstone gravels.	3/09/2025	4	<0.3	10	14	130	0.13	3	59	0.5	0.4	3.8	0.4	0.1	0.7	0.6	0.4	0.3	0.2	0.3	0.3	<0.1	0.2	<0.1	N.A.	<0.1	<0.1	<0.1	<0.3			<20	<25	<20	83	96	<100	<25	<25	<25	160	<120	N.A.	N.A.	N.A.	N.A.	N.A.
BH103M_0.7-0.8	Silty CLAY; red / brown with mottled orange, high plasticity, with ironstone gravels.		20	<0.3	20	3.9	16	<0.05	<0.5	7.1	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	<0.1	<0.1	<0.1	<0.3			<20	<25	<20	<45	<45	<100	<25	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.
BH107_2.0-2.1	Sandy CLAY; brown, low plasticity, coarse grained sand, water strike at 2.1 mBGL.		4	<0.3	6.6	34	12	<0.05	4.4	45	<0.2	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N.A.	<0.1	<0.1	<0.1	<0.3			<20	<25	<20	<45	<45	<100	<25	<25	<25	<90	<120	N.A.	N.A.	N.A.	N.A.	N.A.
Statistical Analysis																																																	
Maximum concentration			20	<0.3	100	34	160	0.42	79	84	1.7	1.2	9.8	0.8	0.2	1.4	1.4	0.8	0.9	0.8	0.7	0.9	0.2	0.6	0	0.2	<0.1	<0.1	<0.1	<0.3	<20	<110	70	88	73	410	440	150	48	<25	48	760	230	<24	<1	<1.7	<1	No
HIL B - *Residential with minimal soil access*			500	150	500 Cr(VI)	30,000	1,200	120	1,200	60,000	4		400																																600		1	
HSL A & B - *Low to high density residential* Soil texture classification – Clay [1]			Source depths (0 m to <1 m. BGL)																						5		0.7	480	NL	110										50	280							Presence / Absence
			Source depths (1m to <2 m. BGL)																						NL		1	NL	NL	310										90	NL							
			Source depths (2 m to <4 m. BGL)																						NL		2	NL	NL	NL										150	NL							
			Source depths (4 m + BGL)																						NL		3	NL	NL	NL										290	NL							
HSL D - *Commercial / Industrial* Soil texture classification – Clay [1]			Source depths (0 m to <1 m. BGL)																						NL		4	NL	NL	NL										310	NL							
			Source depths (1 m to <2 m. BGL)																						NL		6	NL	NL	NL										480	NL							
			Source depths (2 m to <4 m. BGL)																						NL		9	NL	NL	NL										NL	NL							
			Source depths (4 m + BGL)																						NL		20	NL	NL	NL										NL	NL							
EILs / ESLs - *Urban residential and public open space* [2]			100		410	190	1,100		180	400		0.7													170		50	85	70	105										180	120	300	2,800					
Management Limits – *Residential, parkland and public open space*																																									800	1,000	3,500	10,000					

Notes:

Highlighted values exceed HIL / HSL
Highlighted values exceed EIL / ESL
Criteria not met

Results are recorded in mg/kg

HIL B	NEPC 1999 Amendment 2013 'HIL B' - Health based Residential with minimal opportunities for soil access including dwellings with fully and permanenetly paved yard space such as high-rise buildings and apartments.
HSL A & B	NEPC 1999 Amendment 2013 'HSL A & B' Health Based Screening Levels applicable for vapour intrusion values applicable for low-high density residential settings.
HSL D	NEPC 1999 Amendment 2013 'HSL D' Health Based Screening Levels applicable for vapour intrusion values applicable for commercial / industrial settings.
#	Thresholds are for Chromium VI.
*	Chrysotile asbestos found as approx 3.35g fibrous material.
N.A.	Not analysed
NL	Not Limiting' If the derived soil vapour limit exceeds the soil concentration at which the pore water phase cannot dissolve any more of the individual chemical
1	Fine grained soil assessment criteria were applied based on the site geology.
2	EIL criteria is derived from a site specific Added Contaminant Limit (ACL) with the Ambient Background Concentration (ABC) for a high traffic NSW suburb.
F1	To obtain F1 subtract the sum of BTEX concentrations from the C6-C10 fraction.
F2	To obtain F2 subtract naphthalene from the >C10-C16 fraction.
F3	(>C16-C34)
F4	(>C34-C40)

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Table B.2 - Summary of Groundwater Analytical Results

Sample ID	Sampling Date	Metals								PAHs			BTEX					TRHs								VOCs												PFAS		Total Phenols (mg/L)
		As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	Total PAHs	Benzo(a)pyrene	Naphthalene	Benzene	Toluene	Ethylbenzene	o-xylene	m/p-xylene	F1	TRH C10-C14	TRH C15-C28	TRH C29-C36	TRH >C10-C16	F2	F3	F4	Chloroform (THM) #	Isopropylbenzene (Cumene)	Carbon Disulfide	cis-1,2-dichloroethene (CIS-1,2-DCE)	1,3,5-trimethylbenzene	1,2,4-trimethylbenzene	p-isopropyltoluene	n-butylbenzene	Trichloroethane (Trichloroethylene,TCE)	n-propylbenzene	Total VOC	PFOS	PFOA	
GW_BH101M_1	19/9/2025	<1	<0.1	<1	1	<1	<0.1	2	5	<1	<0.1	<0.1	<0.5	1.5	<0.5	<0.5	<1	<50	75	<200	<200	82	81	<500	<500	0.6	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	N.A.	N.A.	N.A.
GW_BH102M_1		<1	0.1	<1	11	<1	<0.1	11	78	<1	<0.1	0.3	<0.5	1.4	<0.5	<0.5	1	260	270	330	<200	290	290	<500	<500	<0.5	1.4	<2	30	34	37	2.6	1.3	0.6	3.4	110	N.A.	N.A.	N.A.
GW_BH103M_1		<1	<0.1	<1	1	<1	<0.1	<1	<5	N.A.	<0.1	<0.1	<0.5	1	<0.5	<0.5	<1	<50	100	320	230	120	120	510	<500	3.9	<0.5	3	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.01	<0.01	<0.05
Statistical Analysis																																							
Maximum Concentration		<1	0.1	<1	11	<1	<0.1	11	78	<1	<0.1	<0.5	<0.5	1.5	<0.5	<0.5	1	260	270	330	230	290	290	<500	<500	3.9	1.4	3	30	34	37	2.6	1.3	0.6	3.4	110	<0.01	<0.01	<0.02
GILs																																							
HSL A&B - Residential Soil texture classification – Clay	2m to <4m											NL	5,000	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL																
	4m to <8m											NL	5,000	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL																
	8m+											NL	5,000	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL																
GILs	Fresh Waters [1]	24 (AsIII) 13 (AsV)	0.2	1.0 (Cr VI)	1.4	3.4	0.6 [2]	11	8 [3]			16	950	180 [4]	80 [4]	350	275 [4]	50 [5]	50 [5]	200 [5]	200 [5]	60 [5]	60 [5]	500 [5]	500 [5]										330					
	Recreational Water [6]	100	20		1,000 *	100	10	200	3,000*				10	25*	3*	20 *	20 *									30													
PFAS - Marine Waters [7]																																					0.13	220	

Notes:

Highlighted indicates criteria exceeded

Highlighted indicates criteria not met

All values are µg/L unless stated otherwise

HSL A & B	NEPC 1999 Amendment 2013 'HSL A & B' Health Based Screening Levels for vapour intrusion applicable for low-high density residential settings.
NL	Not Limiting
NA	'Not Analysed' i.e. the sample was not analysed.
ND	Not Detected - i.e. concentration below the laboratory PQL
#	Only detected concentrations were tabulated.
F1	Obtained by subtracting the sum of BTEX from the C6-C10 fraction.
F2	Obtained by subtracting naphthalene from the >C10-C16 fraction.
F3	(>C16-C34)
F4	(>C34-C40)
1	NEPC (2013) Groundwater Investigation Levels of 95% for fresh and marine water quality, based on ANZECC & ARMCANZ (2000).
2	Chemical for which possible bioaccumulation and secondary poisoning effects should be considered, refer to ANZG (2018) for further guidance.
3	Figure may not protect key species from chronic toxicity, refer to ANZECC & ARMCANZ (2000) for further guidance. The results shows the total concentration of chromium.
4	Low reliability toxicity data, refer to ANZECC & ARMCANZ (2000)
5	In lack of a criteria the laboratory PQL has been used (DEC, 2007).
6	NHMRC (2008) Guidelines on Managing Risks in Recreational Water. Health based Guideline value in NHMRC (2011) Australian Drinking Water Guidelines 6, Version 3.5, Updated August 2018, multiplied by a factor of 10, as recommended in NHMRC (2008).
7	Based on HEPA (2025) PFAS National Environmental Management Plan 3.0 for 95% species protection - slightly to moderately disturbed systems

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Table B.3 Summary of QA/QC Results for Soil and Groundwater Samples

Sample identification	Sampled Date	Description	TRH				BTEX				Heavy Metals							
			F1*	F2**	F3 (>C_{16} - C_{34})	F4 (>C_{34} - C_{40})	Benzene	Toluene	Ethylbenzene	Xylene (total)	Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Mercury	Nickel	Zinc
Intra-laboratory Duplicate																		
BH104_0.3-0.4	3/9/2025	Fill	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	2	<0.3	1.2	9.9	69	0.42	1.2	61
QA01		Replicate of BH104_0.3-0.4	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	1	<0.3	0.7	6.7	160	0.29	0.8	49
RPD			***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	**66.67**	***0.00***	**52.63**	***38.55***	**79.48**	***36.62***	***40.00***	***21.82***
BH103M	18/9/2025	Groundwater	<50	120	510	<500	<0.5	1	<0.5	<1.5	<1	<0.1	<1	1	<1	<0.1	<1	<5
GW_BH100_QD1		Replicate of BH103M	<50	64	<500	<500	<0.5	1.0	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.1	<1	5
RPD			***0.00***	**60.87**	***2.63***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
Inter-laboratory Duplicate																		
BH104_0.3-0.4	3/9/2025	Fill	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	2	<0.3	1.2	9.9	69	0.42	1.2	61
QC01		Replicate of BH104_0.3-0.4	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<4	<0.4	3	15	120	0.70	2	91
RPD			***0.00***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***	**85.71**	***40.96***	**53.97**	***50.00***	***50.00***	***39.47***
BH103M	18/9/2025	Groundwater	<50	120	510	<500	<0.5	1	<0.5	<1.5	<1	<0.1	<1	1	<1	<0.1	<1	<5
GW_BH100_QT1		Replicate of BH103M	13	91	<100	<100	<1	1	<1	<3	<1	<0.1	<1	<1	<1	<0.05	1	5
RPD			**194.74**	***27.49***	**146.43**	***NA***	***NA***	***0.00***	***NA***	***NA***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***NA***	***0.00***	***0.00***
TB	3/09/2025	Trip blank	-	-	-	-	<0.1	<0.1	<0.1	<0.3	-	-	-	-	-	-	-	-
TS		Trip spike	-	-	-	-	[106%]	[105%]	[104%]	N.A.	-	-	-	-	-	-	-	-
QR1		Rinsate	<50	<60	<500	<500	<0.5	<0.5	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.1	<1	<5
Trip Blank	19/09/2025	Trip blank	-	-	-	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-
Trip Spike		Trip spike	-	-	-	-	[99%]	[99%]	[98%]	N.A.	-	-	-	-	-	-	-	-
GW_BH100_QR1	18/09/2025	Rinsate	<50	110	<500	<500	<0.5	<0.5	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.1	<1	<5

Indicates values where a single result is found to be less than detection, with the duplicate sample found to be over the detection limit.

RPD exceeds 30-50% range referenced from AS4482.1 (2005)

NOTE:

All soil results are reported in mg/kg . All water results are reported in µg/L.

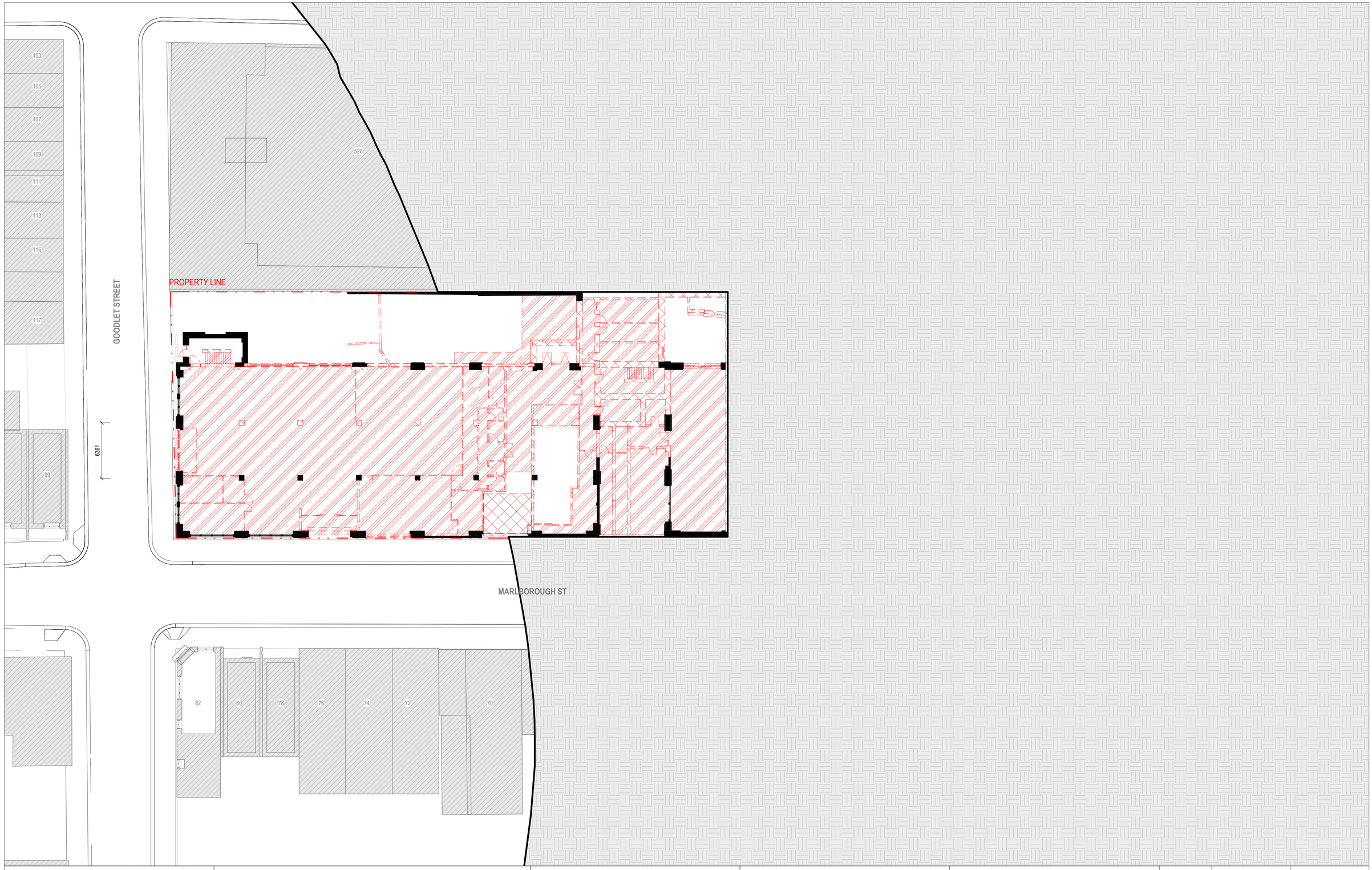
* - to obtain F1 subtract the sum of BTEX concentrations from the C_6-C_{10} fraction

** - to obtain F2 subtract naphthalene from the > C_{10}-C_{16} fraction

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Appendix C – Draft Architectural Plans

THE DISTANCE BETWEEN THESE MARKS SHOULD MEASURE
AS **100mm** WHEN SHEET IS PRINTED TO SCALE AS INDICATED



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General Notes

Rev.	Issue	Revision Description	Date	Appr by
1		FOR INFORMATION	05.02.2026	
2		FOR SSDA COORDINATION	26.02.2026	
3		FOR SSDA COORDINATION	09.03.2026	

Wardle

Gadigal Country
Level 21, 477 Pitt Street
Haymarket, NSW 2000
Australia

+61 2 8277 0900
wardle.studio

ABN 83 006 814 268

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Nom Architect: Jasmin Williamson 11989

Client: TIME & PLACE

Project: Residence
47-97 Marlborough House Surry Hill

Title: Existing and Demolition Plan - Ground Floor

Project No. 2517
Scale @ A1 1 : 200
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status
Drawing No. AR 020
Revision 3

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FILE: Autodesk Docs://Marlborough House Surry Hills/2517_SD_Marlborough_New Building_R25.rvt

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RILEY ST

528

PROPERTY LINE

GOODLET STREET

LANDSDOWNE STREET

MALBOROUGH ST

CHRISTIE LANE

103
105
107
109
111
113
115
117
99

82 80 78 76 74 72 70 68 66 64 62

58 56 54 52

25
27
29
31

42.44
41.01
43.81
46.41
47.20
50.23
49.07

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General Notes

Rev.	Issue	Revision Description	Date	Appr by
1		FOR INFORMATION	05.02.2026	
2		FOR SSDA COORDINATION	26.02.2026	
3		FOR SSDA COORDINATION	09.03.2026	

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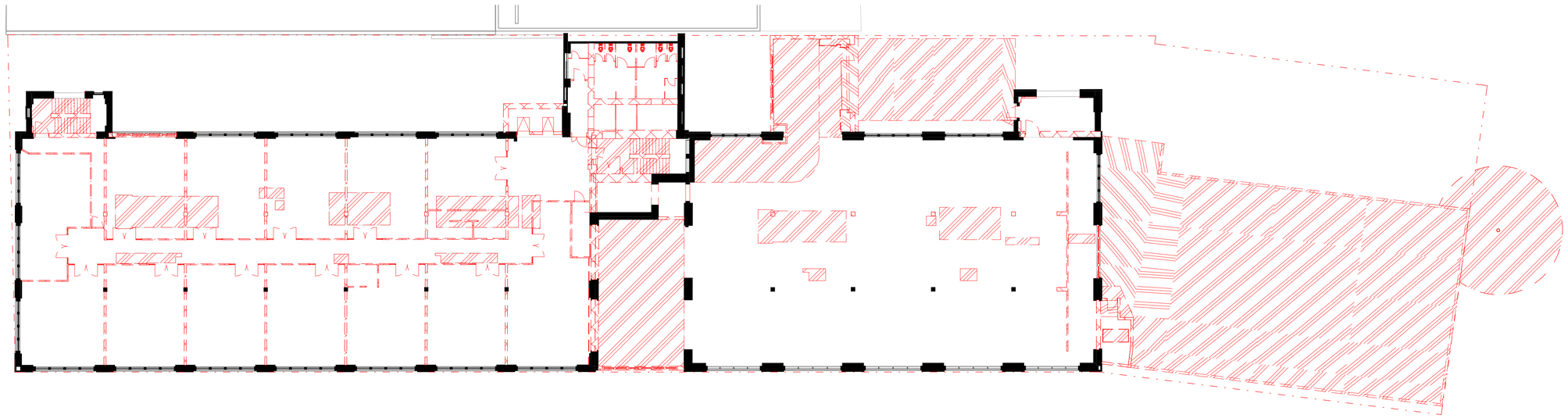
Project: Residence
47-97 Marlborough House Surry Hill

Title: Existing and Demolition Plan - Level 01

Project No. 2517
Scale @ A1 1 : 200
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status
Drawing No. AR 021
Revision 3

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Rev.	Issue	Revision Description	Date	Appr by
1		FOR INFORMATION	05.02.2026	
2		FOR SSDA COORDINATION	26.02.2026	
3		FOR SSDA COORDINATION	09.03.2026	

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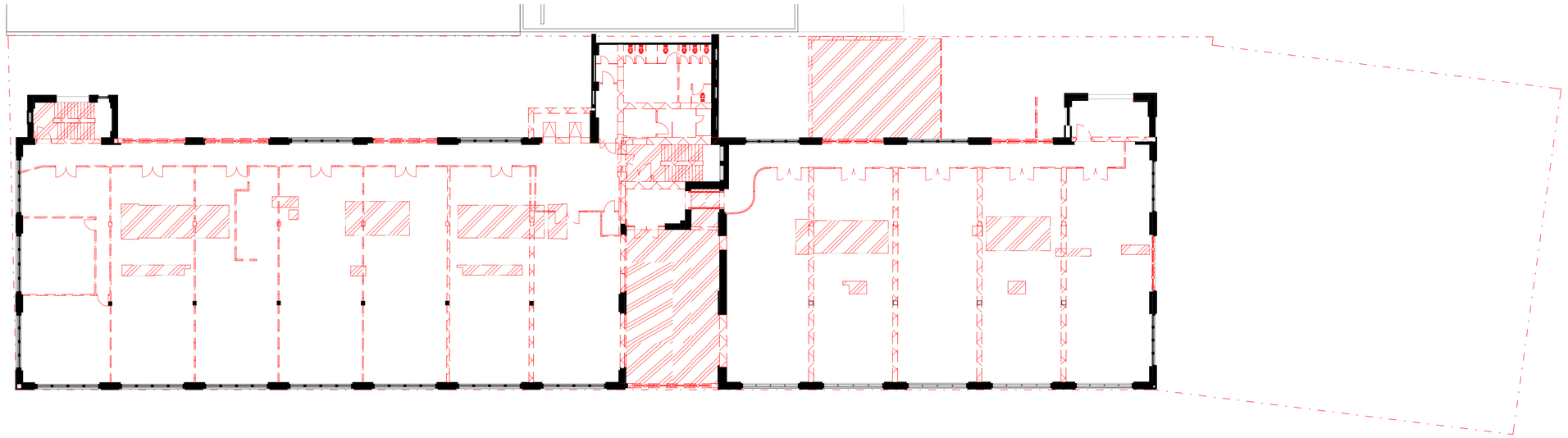
Project Residence
47-97 Marlborough House Surry Hill

Title Existing and Demolition Plan - Level 02

Project No. 2517
Scale @ A1 1 : 200
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status
Drawing No. AR 022
Revision 3

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Rev.	Issue	Revision Description	Date	Appr by
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2		FOR SSDA COORDINATION	26.02.2026	
3		FOR SSDA COORDINATION	09.03.2026	

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Project: Residence
47-97 Marlborough House Surry Hill

Title: Existing and Demolition Plan - Level 03

Project No. 2517

Scale @ A1: 1 : 200

Date

Co-Ord Designer

Drwn Author

Chck Checker

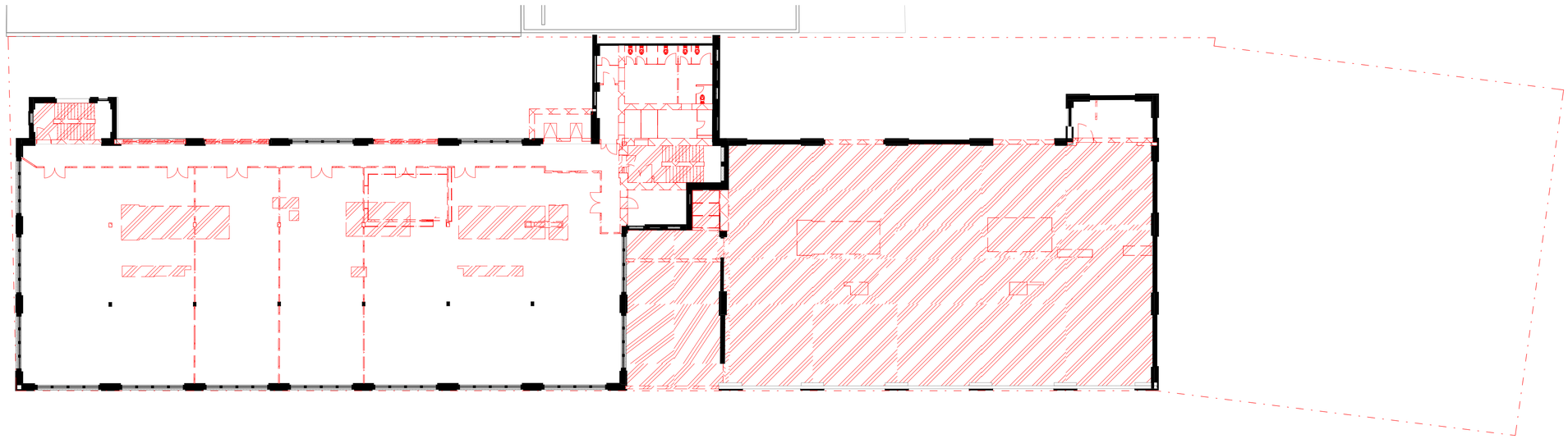
Drawing Status

Drawing No. AR 023

Revision 3

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2		FOR SSDA COORDINATION	26.02.2026	
3		FOR SSDA COORDINATION	09.03.2026	

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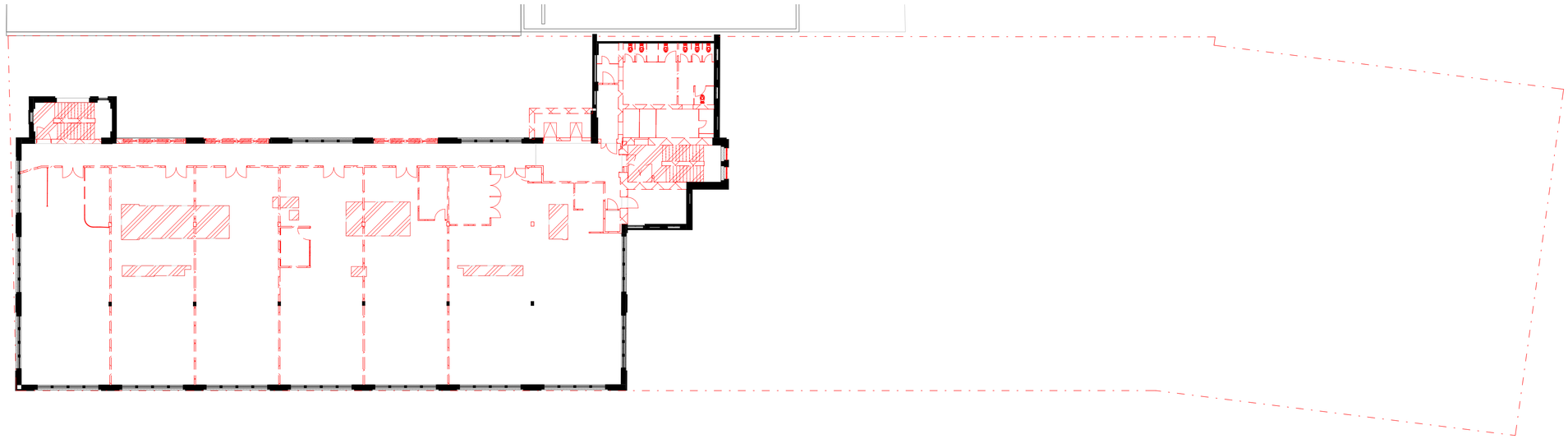
Project: Residence
47-97 Marlborough House Surry Hill

Title: Existing and Demolition Plan - Level 04

Project No.	2517
Scale @ A1	1 : 200
Date	
Co-Ord Designer	
Drwn Author	
Chck Checker	
Drawing Status	
Drawing No.	AR 024
Revision	3

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General Notes

Rev.	Issue	Revision Description	Date	Appr by
1		FOR INFORMATION	28.11.2025	
2		FOR INFORMATION	05.02.2026	
3		FOR SSDA COORDINATION	26.02.2026	
4		FOR SSDA COORDINATION	09.03.2026	

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Project: Residence
47-97 Marlborough House Surry Hill

Title: Existing and Demolition Plan - Level 05

Project No. 2517

Scale @ A1 1 : 200

Date

Co-Ord Designer

Drwn Author

Chck Checker

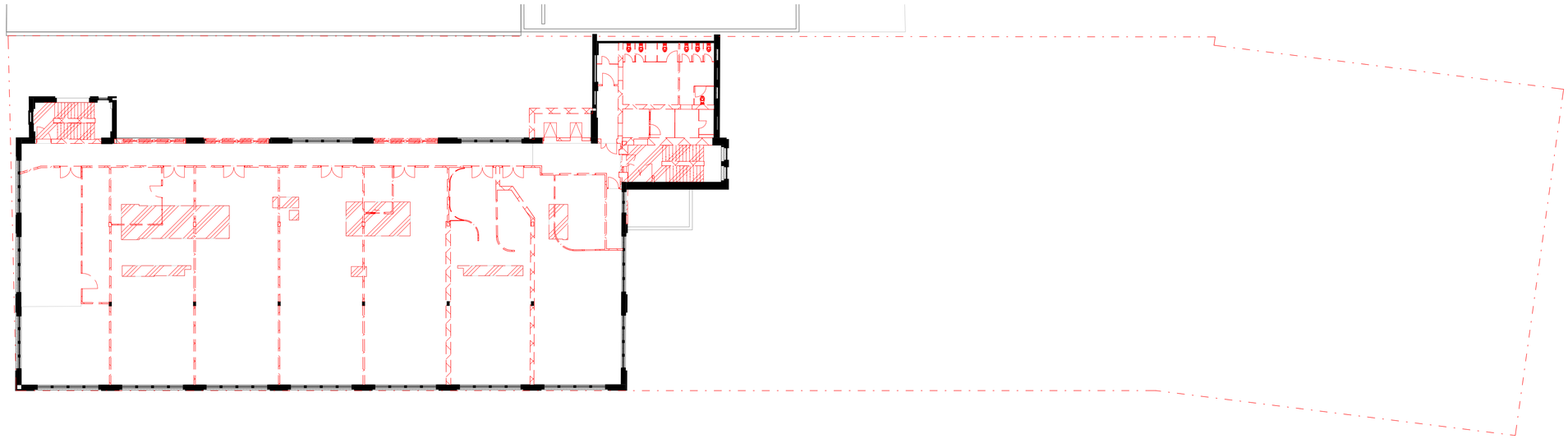
Drawing Status

Drawing No. AR 025

Revision 4

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2		FOR SSDA COORDINATION	26.02.2026	
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Project: Residence
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Title: Existing and Demolition Plan - Level 06

Project No. 2517

Scale @ A1 1 : 200

Date

Co-Ord Designer

Drwn Author

Chck Checker

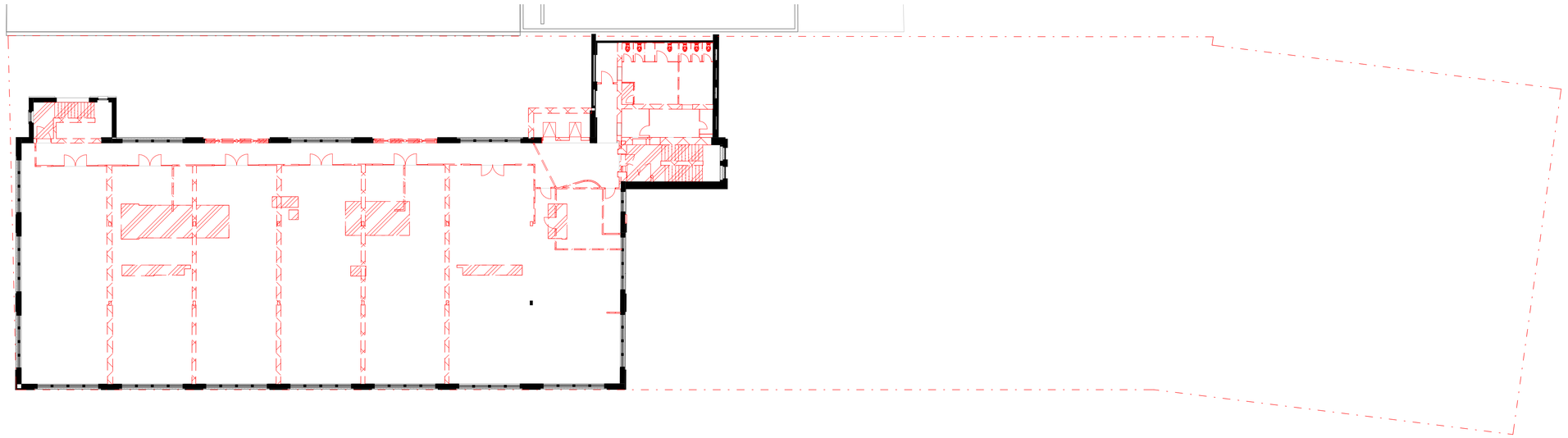
Drawing Status

Drawing No. AR 026

Revision 3

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1		FOR INFORMATION	05.02.2026	
2		FOR SSDA COORDINATION	26.02.2026	
3		FOR SSDA COORDINATION	09.03.2026	

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Project: Residence
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Title: Existing and Demolition Plan - Level 07

Project No. 2517

Scale @ A1 1 : 200

Date

Co-Ord Designer

Drwn Author

Chck Checker

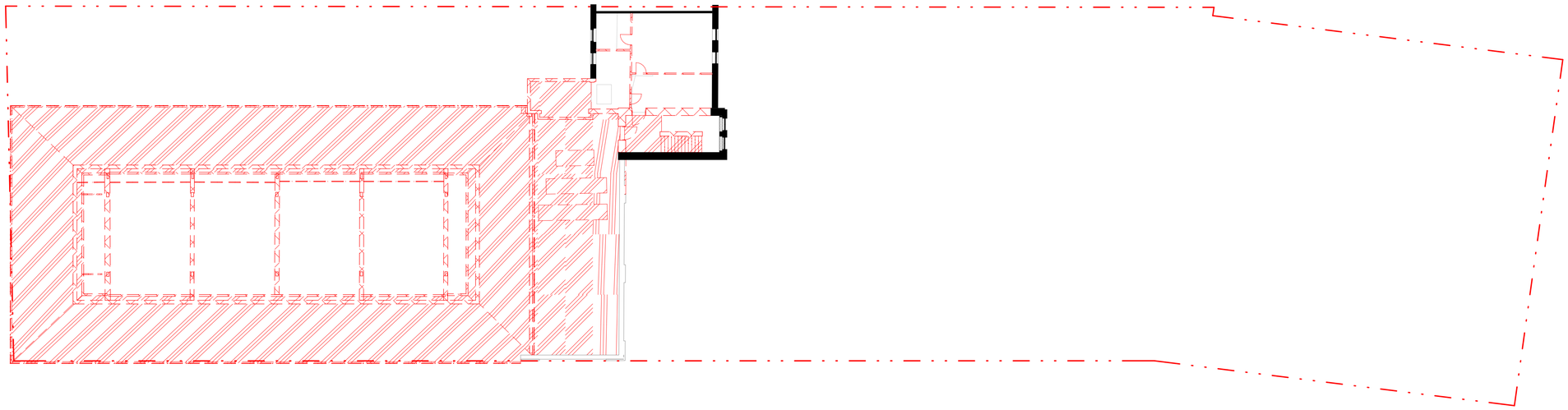
Drawing Status

Drawing No. AR 027

Revision 3

PRINTED: 9/03/2026 8:32:11 PM
FILE: Autodesk Docs://Marlborough House Surry Hills/2517_SD_Marlborough_New Building_R25.rvt

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2		FOR SSDA COORDINATION	26.02.2026	
3		FOR SSDA COORDINATION	09.03.2026	

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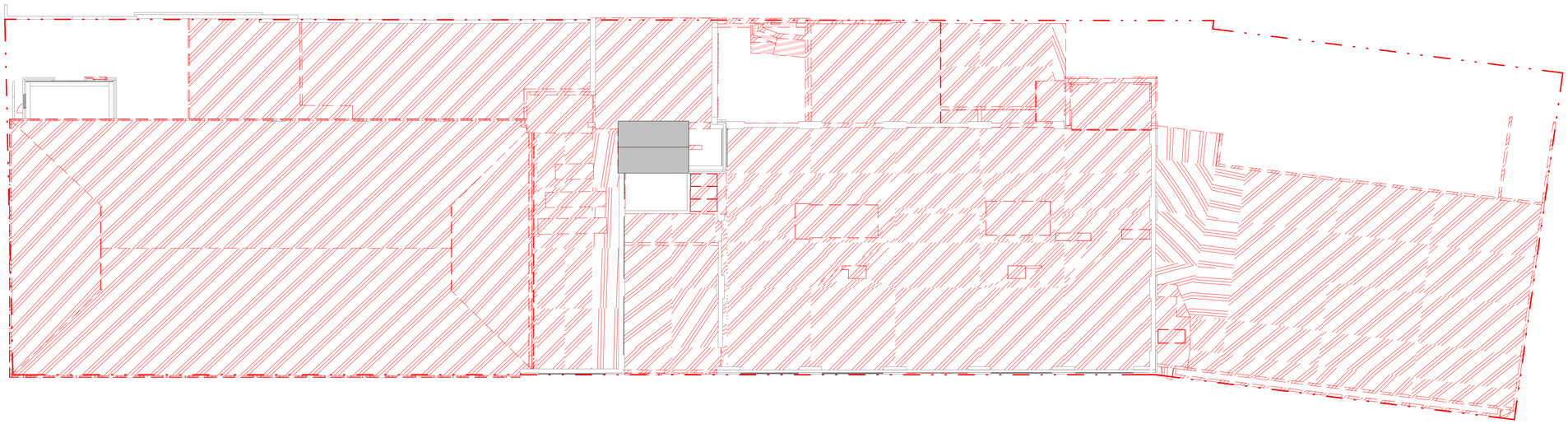
Project: Residence
47-97 Marlborough House Surry Hill

Title: Existing and Demolition Plan - Level 08

Project No. 2517
Scale @ A1 1 : 200
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status
Drawing No. AR 028
Revision 3

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3		FOR SSDA COORDINATION	09.03.2026	

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Project: Residence
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Title: Existing and Demolition Plan - Roof Plan

Project No. 2517

Scale @ A1: 1 : 200

Date

Co-Ord Designer

Drwn Author

Chck Checker

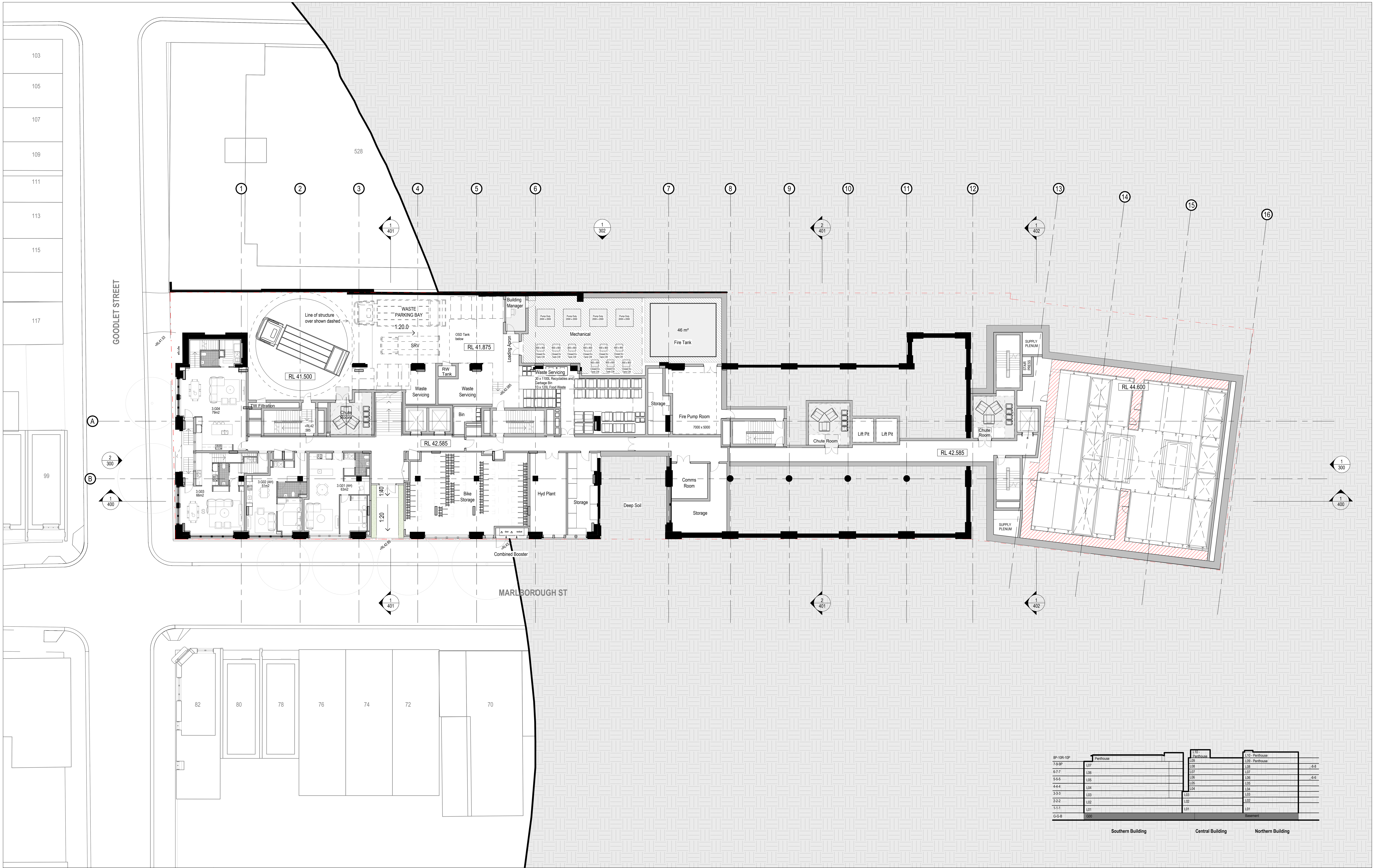
Drawing Status

Drawing No. AR 029

Revision 3

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1		FOR INFORMATION	03.10.2025	
2		FOR INFORMATION	15.10.2025	
3		FOR INFORMATION	06.11.2025	
4		FOR INFORMATION	24.11.2025	
5		FOR INFORMATION	28.11.2025	
6		FOR INFORMATION	23.01.2026	
7		FOR INFORMATION	30.01.2026	
8		FOR INFORMATION	05.02.2026	
9		FOR SSDA COORDINATION	26.02.2026	
10		FOR SSDA COORDINATION	09.03.2026	

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Project Residence
47-97 Marlborough House Surry Hill

Title GA Plan - Ground Floor (G-G-B)

Project No. 2517

Scale @ A1 As indicated

Date

Co-Ord Designer

Drwn Author

Chck Checker

Drawing Status

Drawing No. AR 102

Revision 10

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4		FOR INFORMATION	05.11.2025	
5		FOR INFORMATION	06.11.2025	
6		FOR INFORMATION	24.11.2025	
7		FOR INFORMATION	27.11.2025	
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11		FOR INFORMATION	30.01.2026	
12		FOR INFORMATION	05.02.2026	
13		FOR SSDA COORDINATION	26.02.2026	
14		FOR SSDA COORDINATION	09.03.2026	

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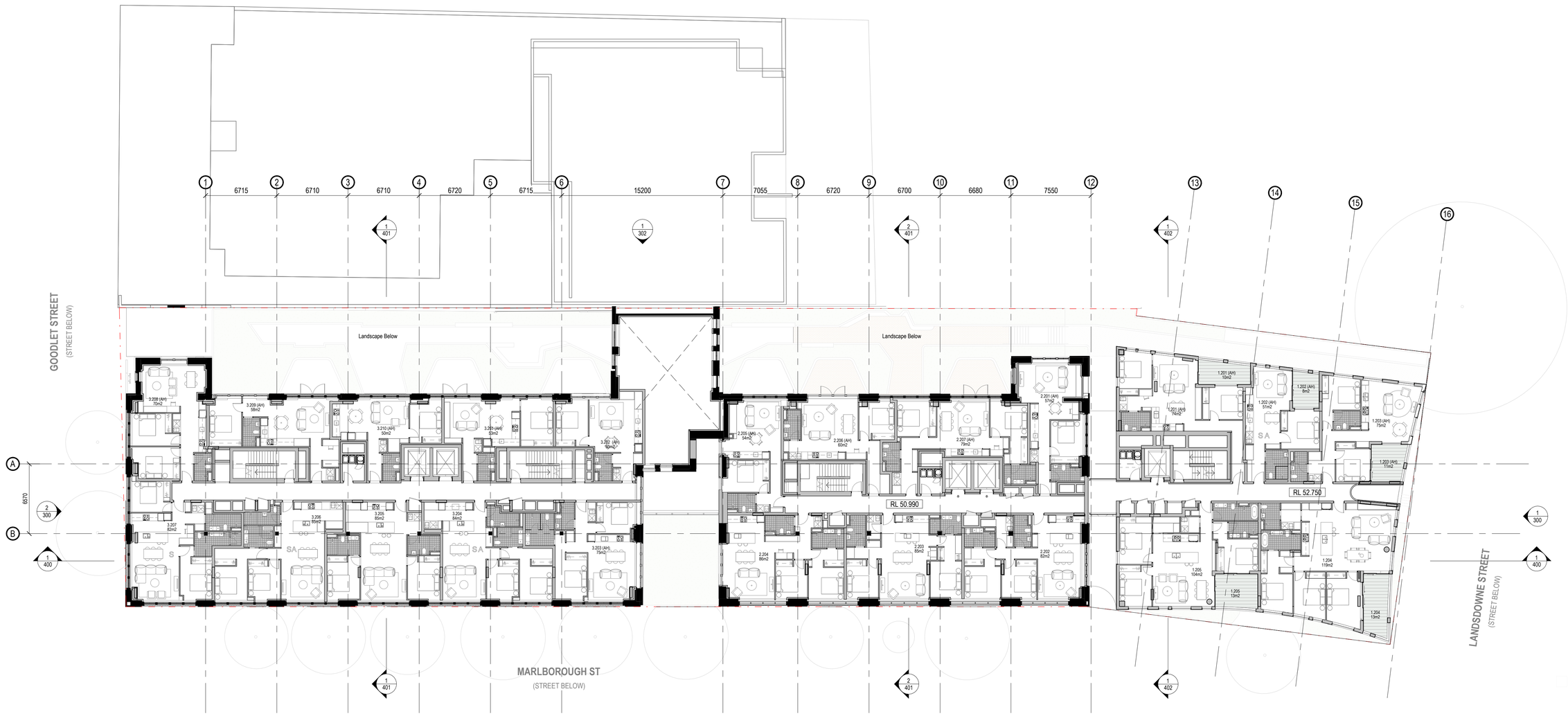
Project: Residence
47-97 Marlborough House Surry Hill

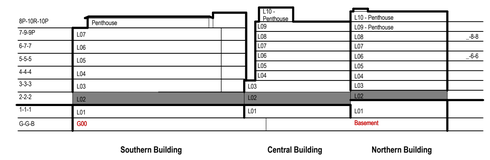
Title: GA Plan - Level 01 (01-01-01)

Project No. 2517
Scale @ A1 As indicated
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status
Drawing No. AR 103
Revision 14

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4		FOR INFORMATION	28.11.2025	
5		FOR INFORMATION	30.01.2026	
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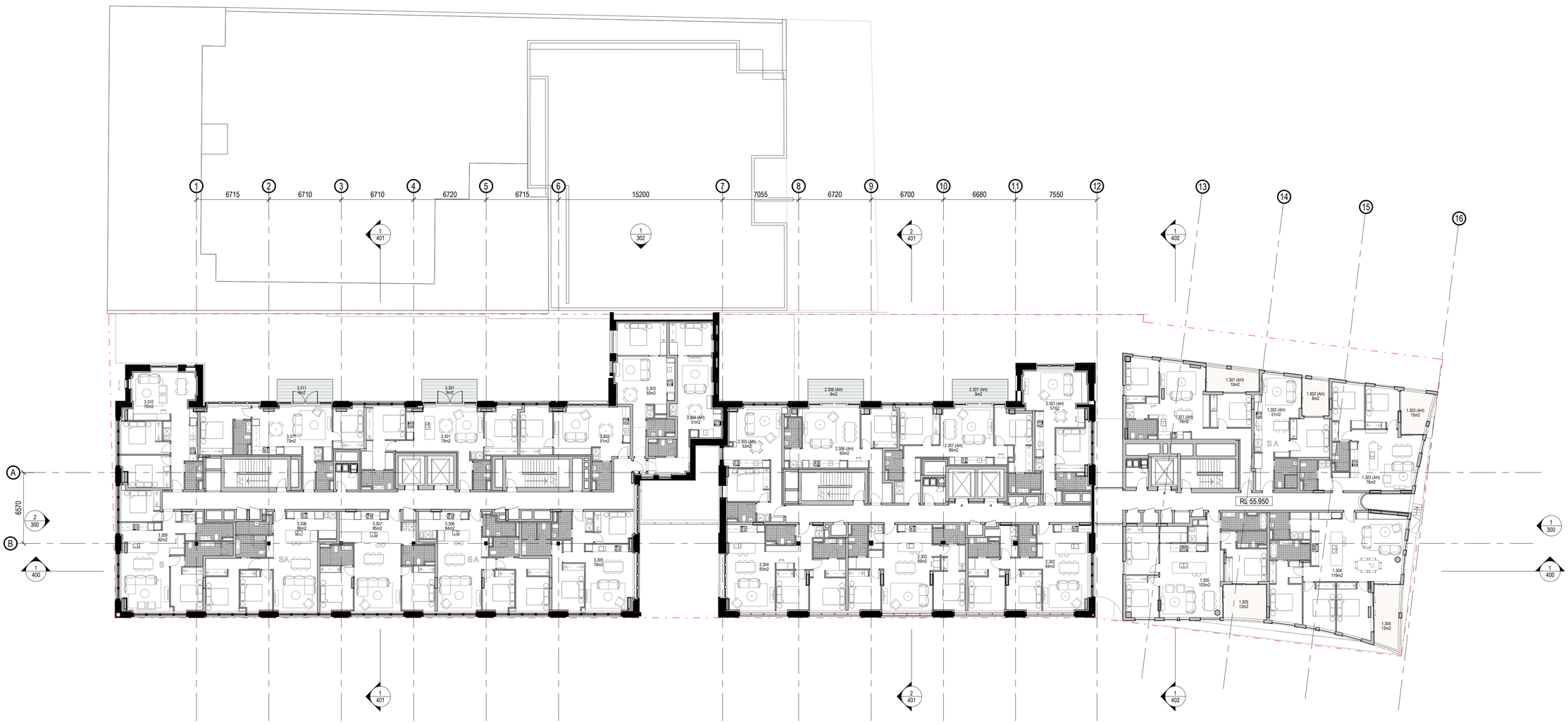
Project Residence
47-97 Marlborough House Surry Hill

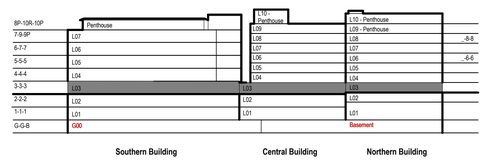
Title GA Plan - Level 02 (02-02-02)

Project No. 2517
Scale @ A1 As indicated
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status
Drawing No. AR 104
Revision 8

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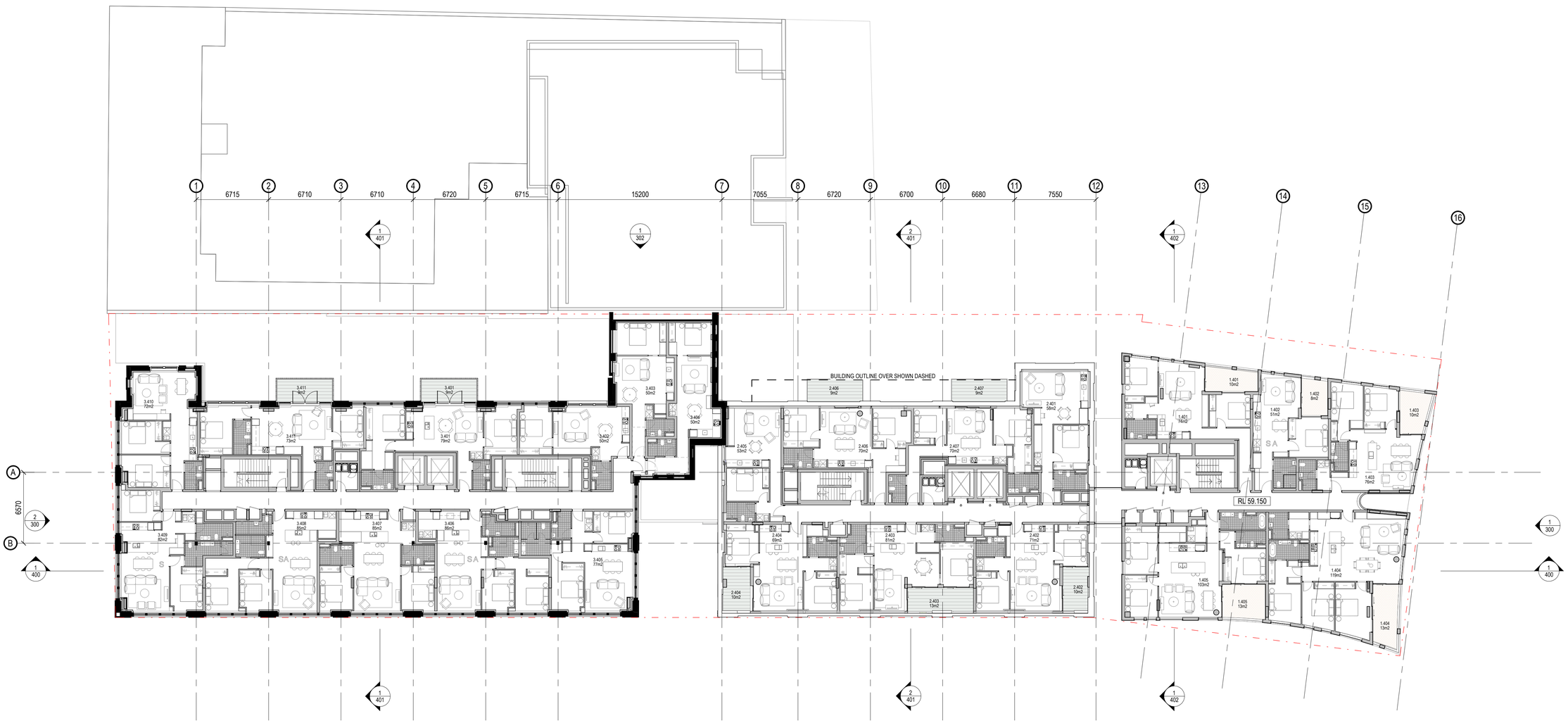
Project: Residence
47-97 Marlborough House Surry Hill

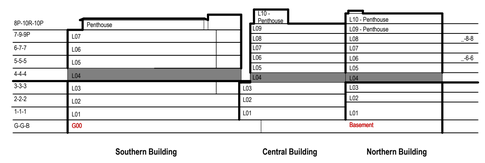
Title: GA Plan - Level 03 (03-03-03)

Project No. 2517
Scale @ A1 As indicated
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status
Drawing No. AR 105
Revision 9

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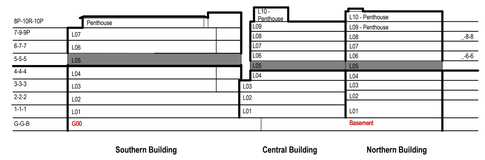
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Project No. 2517
Scale @ A1: As indicated
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status
Drawing No. AR 106
Revision 8

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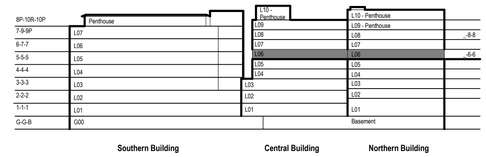
Title GA Plan - Level 05 (05-05-05)

Project No. 2517
Scale @ A1 As indicated
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status
Drawing No. AR 107
Revision 8

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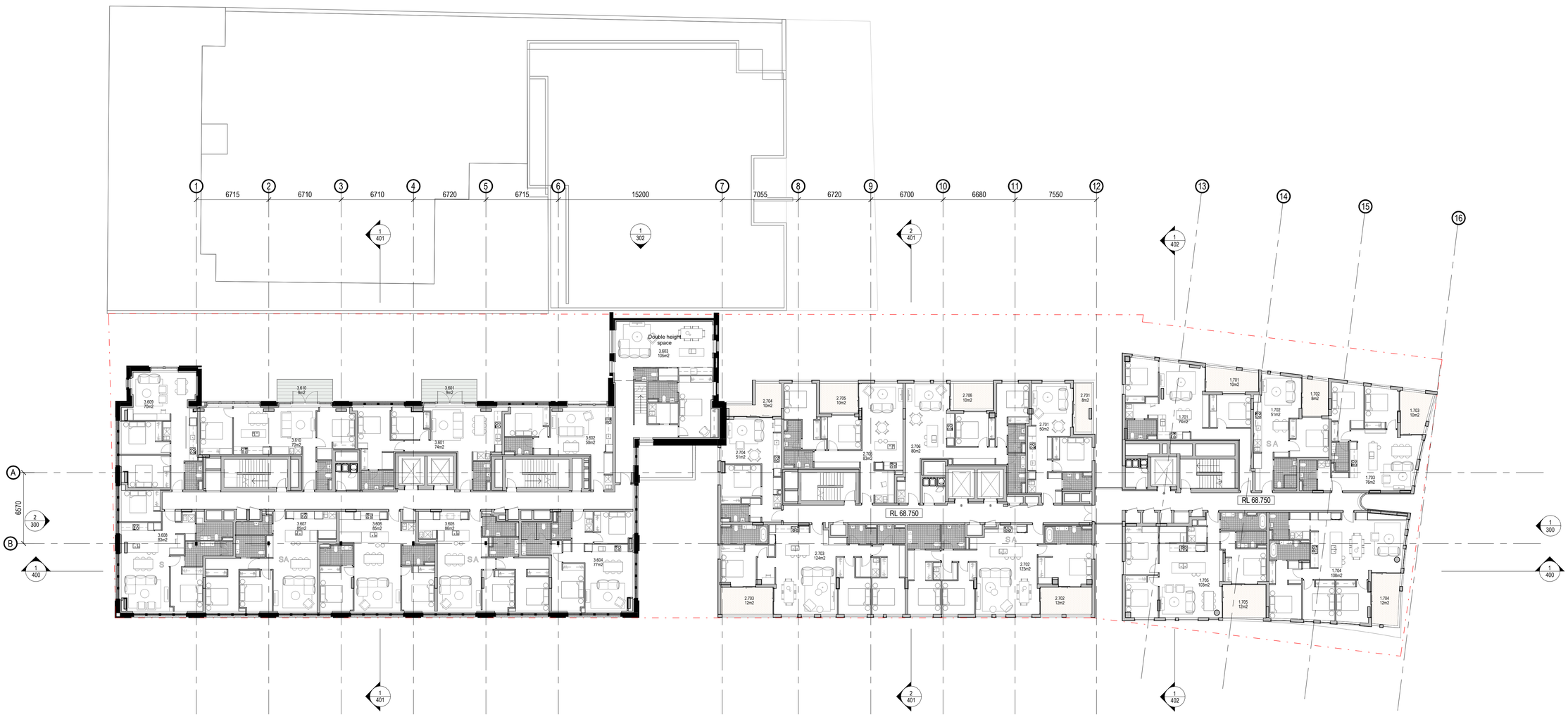
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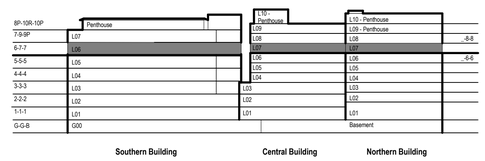
Project No. 2517
Scale @ A1 As indicated
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status

Drawing No. AR 108
Revision 9

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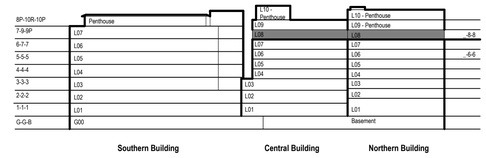
Title: GA Plan - Level 07 (06-07-07)

Project No. 2517
Scale @ A1 As indicated
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status
Drawing No. AR 109
Revision 9

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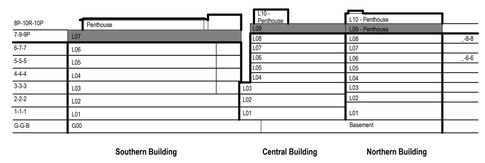
Title GA Plan - Level 08 (_-08-08)

Project No. 2517
Scale @ A1 As indicated
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status
Drawing No. AR 110
Revision 9

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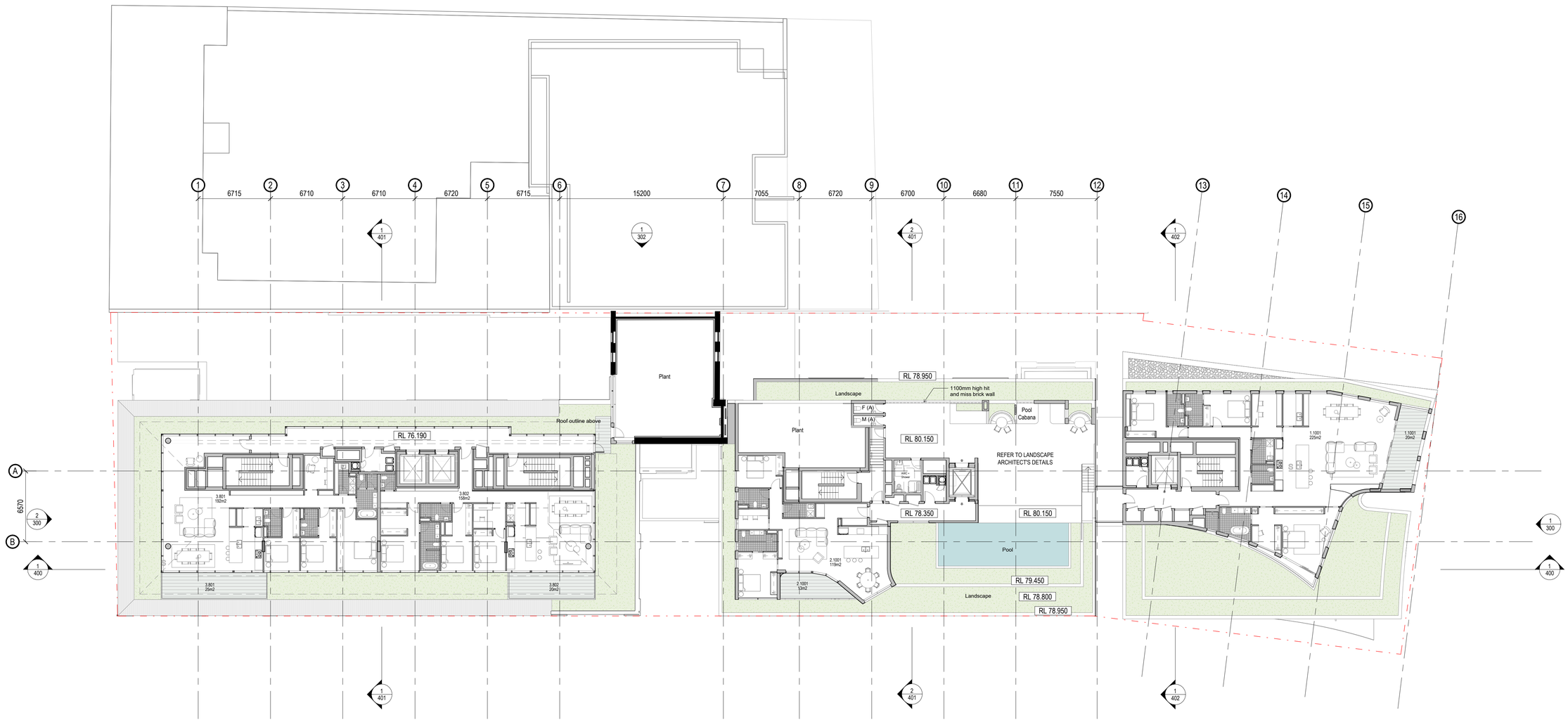
Project: Residence
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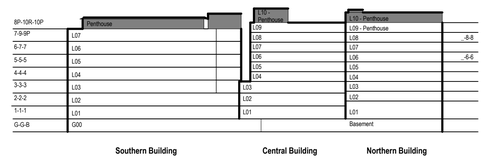
Title: GA Plan - Level 09 (07-09-09P)

Project No. 2517
Scale @ A1: As indicated
Date
Co-Ord Designer
Drwn Author
Chck Checker
Drawing Status
Drawing No. AR 111
Revision 8

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Project: Residence
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Title: GA Plan - Level 10 (08P-10P-10P)

Project No. 2517

Scale @ A1: As indicated

Date

Co-Ord Designer

Drwn Author

Chck Checker

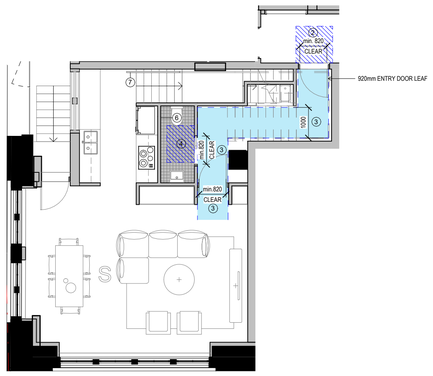
Drawing Status

Drawing No. AR 112

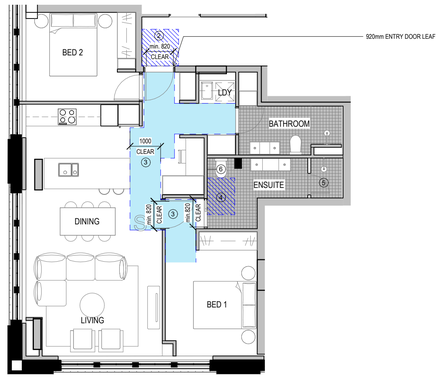
Revision 12

PRINTED: 9/03/2026 8:39:57 PM
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THE DISTANCE BETWEEN THESE MARKS SHOULD MEASURE
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1 LHA PLAN - TOWNHOUSE LEVEL G
Scale 1 : 100

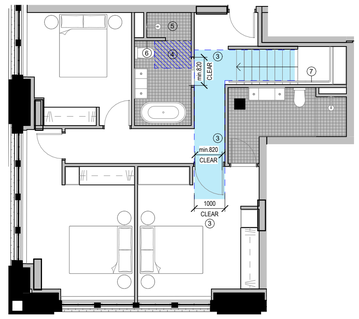


3 LHA PLAN - 2 BED
Scale 1 : 100

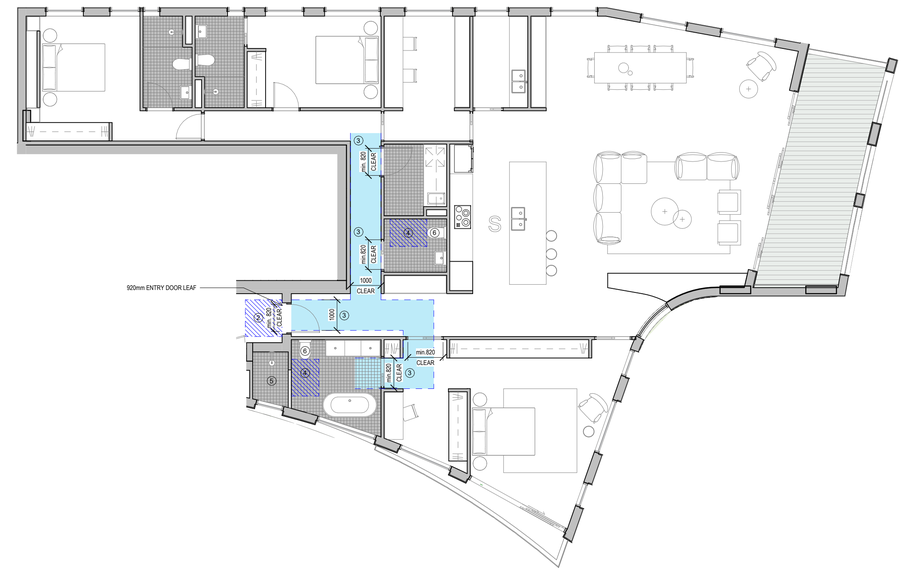
REFER TO DWG AR 913 FOR APARTMENT LOCATION.

LHA SILVER LEVEL DESIGN FEATURES:

1. **A safe continuous and step free path of travel** from the street entrance and/or parking area to a dwelling entrance that is level.
2. At least one, level (step-free) **entrance** into the dwelling.
   - A door with minimum clear opening width of 820mm.
   - A level (step-free) transition and threshold.
   - A level landing area of at least 1200mm x 1200mm on the arrival side of the door.
3. **Internal doors and corridors** that facilitate comfortable and unimpeded movement between spaces.
   - A doorways to rooms on the entry level used for living, dining, bedroom, bathroom, kitchen, laundry and sanitary compartment purposes with a minimum clear opening width of 820mm and a level transition and threshold.
   - Internal corridors / passageways to the doorway referred to above with a minimum clear width of 1000mm.
4. A **toilet** on the ground (or entry) level that provides easy access.
   - Toilet on the ground (or entry) level that provides a minimum clear circulation space of 900mm x 1200mm forward of the toilet pan exclusive of the swing of the door.
   - The toilet pan located in the corner of the room to enable installation of grabrails at a future date.
5. A bathroom that contains a **hobless shower recess**.
   - A slip resistant and hobless shower recess, located in the corner of the room to enable the installation of grabrails at a future date.
   - Shower screens to be removed as required.
6. **Reinforced walls** around the toilet, shower and bath to support the safe installation of grabrails at a later date.
7. **Stairways** are designed to reduce the likelihood of injury and also enable future adaptation.
   - A continuous handrail on one side of the stairway where there is a rise of more than 1m.



2 LHA PLAN - TOWNHOUSE LEVEL 1
Scale 1 : 100



4 LHA PLAN- PENTHOUSE
Scale 1 : 100

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General Notes

Rev.	Issue	Revision Description	Date	Appr by
1		FOR SSDA COORDINATION	09.03.2026	

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Gadigal Country
Level 21, 477 Pitt Street
Haymarket, NSW 2000
Australia

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wardle.studio

ABN 83 006 814 268

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Nom Architect: Jasmin Williamson 11989

Client TIME & PLACE

Project Residence
47-97 Marlborough House Surry Hill

Title LHA Silver Level Apartments

Project No. 2517

Scale @ A1 As indicated

Date AUG 2025

Co-Ord Designer

Drwn Author

Chck Checker

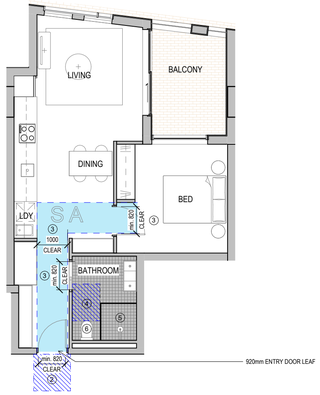
Drawing Status

Drawing No. AR 920

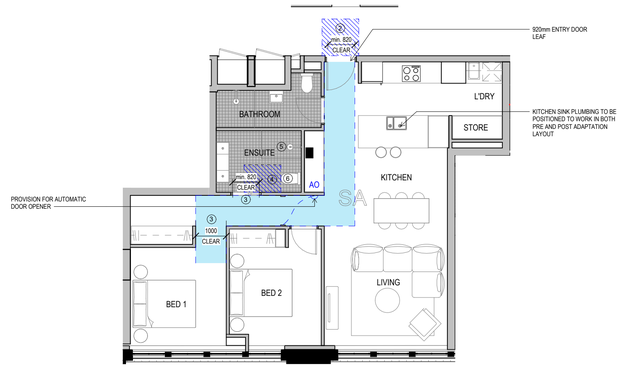
Revision 1

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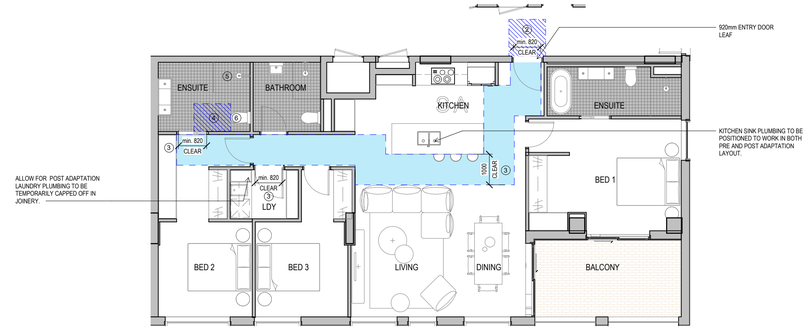
THE DISTANCE BETWEEN THESE MARKS SHOULD MEASURE
AS **100mm** WHEN SHEET IS PRINTED TO SCALE AS INDICATED



1 PRE-ADAPTATION PLAN - 1 BED
Scale 1 : 100



2 PRE-ADAPTATION PLAN - 2 BED
Scale 1 : 100

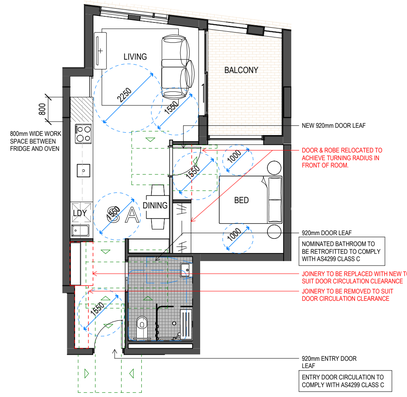


3 PRE-ADAPTATION PLAN - 3 BED
Scale 1 : 100

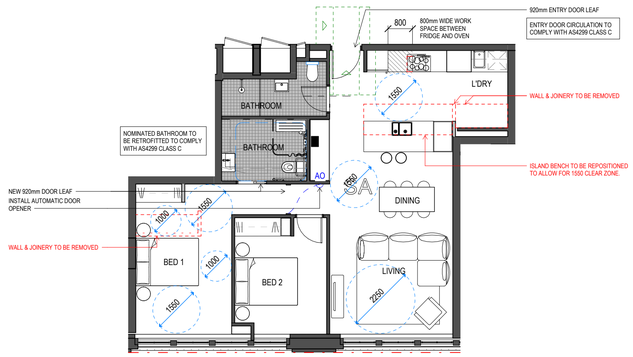
REFER TO DWG AR 913 FOR APARTMENT LOCATION.

LHA SILVER LEVEL DESIGN FEATURES:

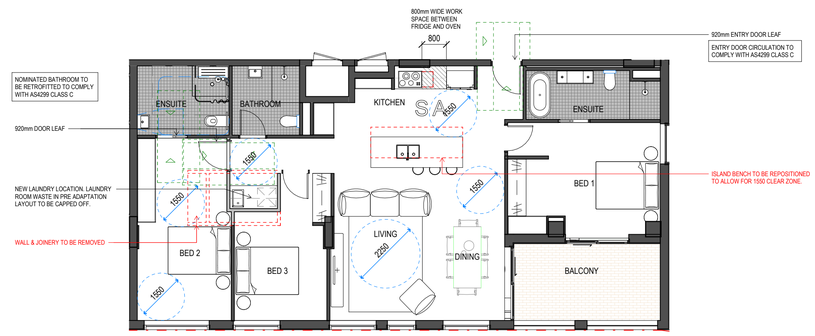
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4 POST-ADAPTATION PLAN - 1 BED
Scale 1 : 100



5 POST-ADAPTATION PLAN - 2 BED
Scale 1 : 100



6 POST-ADAPTATION PLAN - 3 BED
Scale 1 : 100

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1		FOR SSDA COORDINATION	09.03.2026	

Wardle

Gadigal Country
Level 21, 477 Pitt Street
Haymarket, NSW 2000
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+61 2 8277 0900
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ABN 83 006 814 268

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Nom Architect: Jasmin Williamson 11989

Client: TIME & PLACE

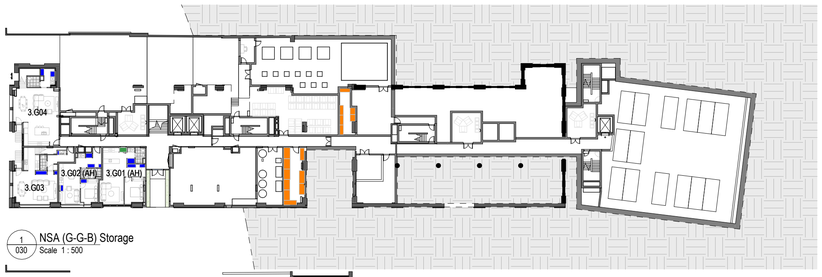
Project: Residence
47-97 Marlborough House Surry Hill

Title: LHA Silver Level and Adaptable Apartments

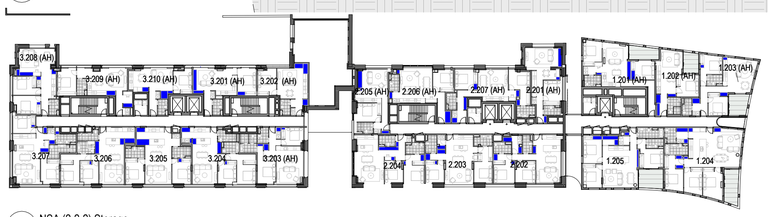
Project No. 2517
Scale @ A1: As indicated
Date: AUG 2025
Co-Ord: Designer
Drwn: Author
Chck: Checker
Drawing Status
Drawing No. AR 921
Revision 1

PRINTED: 9/03/2026 8:30:24 PM
FILE: Autodesk Docs://Marlborough House Surry Hills/2517_SD_Marlborough_New Building_R25.rvt

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1 / 030 NSA (G-G-B) Storage
Scale 1 : 500



3 / 031 NSA (2-2-2) Storage
Scale 1 : 500



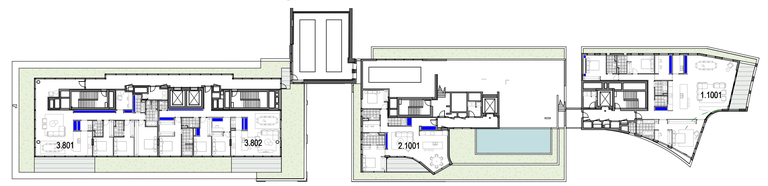
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7 / 030 NSA (_6-6) Storage
Scale 1 : 500



10 / 030 NSA (_8-8) Storage
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11 / 030 NSA (8-10-10) Storage
Scale 1 : 500



2 / 031 NSA (1-1-1) Storage
Scale 1 : 500



4 / 031 NSA (3-3-3) Storage
Scale 1 : 500



6 / 031 NSA (5-5-5) Storage
Scale 1 : 500



8 / 031 NSA (6-7-7) Storage
Scale 1 : 500



9 / 031 NSA (7-9-9P) Storage
Scale 1 : 500

STORAGE

- Internal storage 2.4m height
- Internal storage Ceiling 1m height
- External storage. Cage, 2.4 m height

APARTMENT STORAGE SOUTH BUILDING

Building	Apart. Number	Apart. Type	Internal Volume	TOTAL Volume
Southern	3.101	1B	6.5	6.5
Southern	3.102 (AH)	1B	7.6	7.6
Southern	3.103 (AH)	2B	4.4	8.4
Southern	3.104	2B	8.0	8.0
Southern	3.105	2B	8.2	8.2
Southern	3.106	2B	7.4	11.3
Southern	3.107	2B	8.0	8.0
Southern	3.201 (AH)	2B	8.2	8.2
Southern	3.202 (AH)	1B	7.7	7.7
Southern	3.203 (AH)	2B	4.4	8.4
Southern	3.204	2B	8.0	8.0
Southern	3.205	2B	8.2	8.2
Southern	3.206	2B	8.0	8.0
Southern	3.207	2B	5.9	8.4
Southern	3.208 (AH)	2B	8.5	8.5
Southern	3.209	1B	6.3	6.3
Southern	3.210 (AH)	1B	6.2	6.2
Southern	3.301	2B	8.6	8.6
Southern	3.302	1B	6.7	6.7
Southern	3.303 (AH)	1B	6.0	6.0
Southern	3.304 (AH)	1B	6.1	6.1
Southern	3.305	2B	4.4	8.6
Southern	3.306	2B	8.0	8.0
Southern	3.307	2B	8.2	8.2
Southern	3.308	2B	8.4	8.4
Southern	3.309	2B	5.9	8.2
Southern	3.310	2B	8.5	8.5
Southern	3.311	2B	8.0	10.2
Southern	3.401	2B	8.6	8.6
Southern	3.402	1B	6.7	6.7
Southern	3.403	1B	6.0	6.0
Southern	3.404	1B	6.1	6.1
Southern	3.405	2B	4.4	8.6
Southern	3.406	2B	8.0	8.0
Southern	3.407	2B	8.2	8.2
Southern	3.408	2B	8.4	8.4
Southern	3.409	2B	5.9	8.2
Southern	3.410	2B	8.5	8.5
Southern	3.411	2B	8.0	10.2
Southern	3.501	2B	8.6	8.6
Southern	3.502	1B	6.7	6.7
Southern	3.503	1B	6.0	6.0
Southern	3.504	1B	6.1	6.1
Southern	3.505	2B	4.4	8.9
Southern	3.506	2B	8.0	8.0
Southern	3.507	2B	8.2	8.2
Southern	3.508	2B	8.9	8.9
Southern	3.509	2B	5.9	8.2
Southern	3.510	2B	8.5	8.5
Southern	3.511	2B	8.0	10.2
Southern	3.601	2B	6.0	8.1
Southern	3.602	1B	6.0	6.0
Southern	3.603	3B	10.1	10.1
Southern	3.604	2B	4.4	8.9
Southern	3.605	2B	8.0	8.0
Southern	3.606	2B	8.2	8.2
Southern	3.607	2B	8.4	8.4
Southern	3.608	2B	5.9	8.2
Southern	3.609	2B	8.5	8.5
Southern	3.610	2B	11.5	11.5
Southern	3.701	2B	8.6	8.6
Southern	3.702	1B	6.1	6.1
Southern	3.703	2B	4.4	8.2
Southern	3.704	2B	8.0	8.0
Southern	3.705	2B	8.2	8.2
Southern	3.706	2B	8.4	8.4
Southern	3.707	2B	5.9	8.2
Southern	3.708	2B	8.5	8.5
Southern	3.709	2B	8.0	10.2
Southern	3.801	3B	15.6	15.6
Southern	3.802	3B	15.6	15.6
Southern	3.G01 (AH)	1B	6.0	6.0
Southern	3.G02 (AH)	1B	6.7	6.7
Southern	3.G03	3B	10.4	10.4
Southern	3.G04	3B	10.5	10.5

APARTMENT STORAGE CENTRAL BUILDING

Building	Apartment Number	Apart. Type	Internal Volume	TOTAL Volume
Central	2.101 (AH)	1B	6.0	6.0
Central	2.102 (AH)	1B	6.0	6.0
Central	2.103 (AH)	1B	6.0	6.0
Central	2.104 (AH)	1B	6.7	6.7
Central	2.105 (AH)	1B	6.6	6.6
Central	2.106 (AH)	1B	6.2	6.2
Central	2.107 (AH)	2B	8.1	8.1
Central	2.201 (AH)	1B	6.0	6.0
Central	2.202	2B	8.0	8.0
Central	2.203	2B	8.0	8.0
Central	2.204	2B	8.0	8.0
Central	2.205 (AH)	1B	6.3	6.3
Central	2.206 (AH)	1B	6.1	6.1
Central	2.207 (AH)	2B	8.1	8.1
Central	2.301 (AH)	1B	6.0	6.0
Central	2.302	2B	8.0	8.0
Central	2.303	2B	8.0	8.0
Central	2.304	2B	8.0	8.0
Central	2.305 (AH)	1B	6.3	6.3
Central	2.306 (AH)	1B	6.1	6.1
Central	2.307 (AH)	2B	8.1	8.1
Central	2.401	1B	7.9	7.9
Central	2.402	2B	8.1	8.1
Central	2.403	2B	8.0	8.0
Central	2.404	2B	9.8	9.8
Central	2.405	1B	6.0	6.0
Central	2.406	2B	8.0	8.0
Central	2.407	2B	4.8	8.2
Central	2.501	1B	8.6	8.6
Central	2.502	3B	10.8	10.8
Central	2.503	3B	11.8	11.8
Central	2.504	1B	6.3	6.3
Central	2.505	2B	8.9	8.9
Central	2.506	2B	8.0	8.0
Central	2.601	1B	7.8	7.8
Central	2.602	3B	10.8	10.8
Central	2.603	3B	11.8	11.8
Central	2.604	1B	6.3	6.3
Central	2.605	2B	8.9	8.9
Central	2.606	2B	8.0	8.0
Central	2.701	1B	7.1	7.1
Central	2.702	3B	10.8	10.8
Central	2.703	3B	11.8	11.8
Central	2.704	1B	6.3	6.3
Central	2.705	2B	8.9	8.9
Central	2.706	2B	8.0	8.0
Central	2.801	1B	7.8	7.8
Central	2.802	3B	10.8	10.8
Central	2.803	3B	11.8	11.8
Central	2.804	1B	6.3	6.3
Central	2.805	2B	8.9	8.9
Central	2.806	2B	8.0	8.0
Central	2.901	1B	7.8	7.8
Central	2.902	3B	10.8	10.8
Central	2.903	3B	11.8	11.8
Central	2.904	1B	6.3	6.3
Central	2.905	2B	8.9	8.9
Central	2.906	2B	8.0	8.0
Central	2.1001	2B	10.0	10.0

APARTMENT STORAGE NORTH BUILDING

Building	Apart. Number	Apart. Type	Internal Volume	TOTAL Volume
Northern	1.201 (AH)	2B	8.0	8.0
Northern	1.202 (AH)	1B	6.3	6.3
Northern	1.203 (AH)	2B	5.7	8.1
Northern	1.204	3B	11.7	11.7
Northern	1.205	3B	10.1	10.1
Northern	1.301 (AH)	2B	8.0	8.0
Northern	1.302 (AH)	1B	6.3	6.3
Northern	1.303 (AH)	2B	6.2	8.4
Northern	1.304	3B	11.7	11.7
Northern	1.305	3B	10.1	10.1
Northern	1.401	2B	8.0	8.0
Northern	1.402	1B	6.3	6.3
Northern	1.403	2B	6.2	8.4
Northern	1.404	3B	11.7	11.7
Northern	1.405	3B	10.1	10.1
Northern	1.501	2B	8.0	8.0
Northern	1.502	1B	6.3	6.3
Northern	1.503	2B	6.2	8.4
Northern	1.504	3B	11.7	11.7
Northern	1.505	3B	10.1	10.1
Northern	1.601	2B	8.0	8.0
Northern	1.602	1B	6.3	6.3
Northern	1.603	2B	6.2	8.4
Northern	1.604	3B	10.8	10.8
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Northern	1.702	3B	14.6	14.6
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General Notes

Rev.	Issue	Revision Description	Date	Appr by
1		FOR INFORMATION	10.10.2025	
2		FOR INFORMATION	15.10.2025	
3		FOR INFORMATION	10.11.2025	
4		FOR INFORMATION	28.11.2025	
5		FOR INFORMATION	27.01.2026	
6		FOR SSDA COORDINATION	09.03.2026	

Wardle

Gadigal Country
Level 21, 477 Pitt Street
Haymarket, NSW 2000
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+61 2 8277 0900
wardle.studio

ABN 83 006 814 268

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Nom Architect: Jasmin Williamson 11989

Client: TIME & PLACE

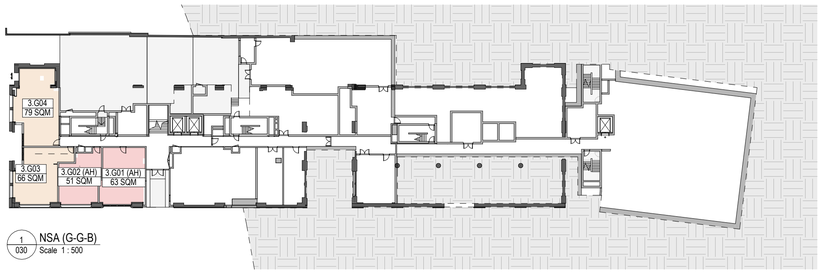
Project: Residence
47-97 Marlborough House Surry Hill

Title: STORAGE

Project No. 2517
Scale @ A1: As indicated
Date: AUG 2025
Co-Ord: Designer
Drwn: Author
Chck: Checker
Drawing Status
Drawing No. AR 930
Revision: 6

PRINTED: 9/03/2026 8:29:58 PM
FILE: Autodesk Docs://Marlborough House Surry Hills/2517_SD_Marlborough_New Building_R23.rvt

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1 / 030 NSA (G-G-B)
Scale 1 : 500



2 / 031 NSA (1-1-1)
Scale 1 : 500

BP-10R-10P			
7-9-9P	Penthouse	L10 - Penthouse	
6-7-7	L07	L09 - Penthouse	
5-5-5	L06	L08	-8-8
4-4-4	L05	L07	
3-3-3	L04	L06	-6-6
2-2-2	L03	L05	
1-1-1	L02	L04	
G-G-B	L01	L03	
	G00	L02	
		L01	
		Basement	

ROOMS

- Residential (BTS)
- Residential (AH)
- Retail

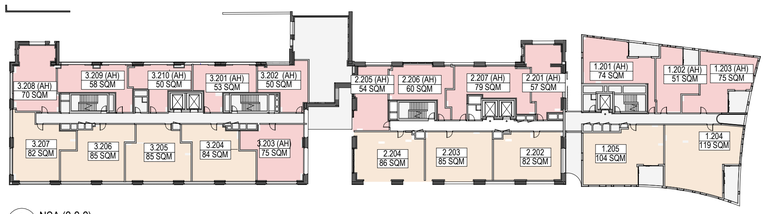
Net Sellable Area (NSA) method of measurements:

net sellable area means the sum of the floor area of each apartment measured from the internal surface of external walls , party walls, service riser walls and

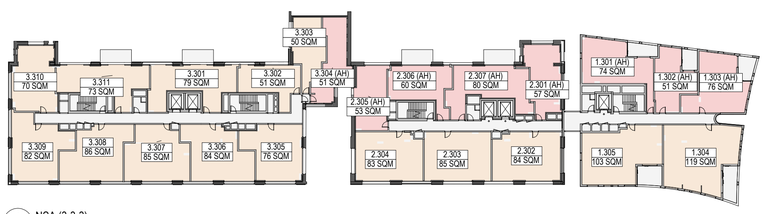
Includes :
(a)usable portion underneath a stair, measured at 1.4 metre above the floor

Excludes:
(a) services penetrations and services walls
(b) load bearing columns and walls
(c) voids above a floor or a stair

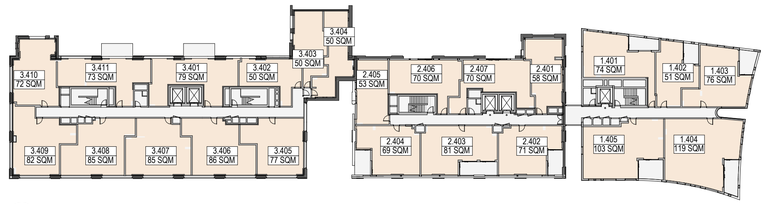
Essentially, net sellable area measures the area which the owner have rights to demolish and renovate.



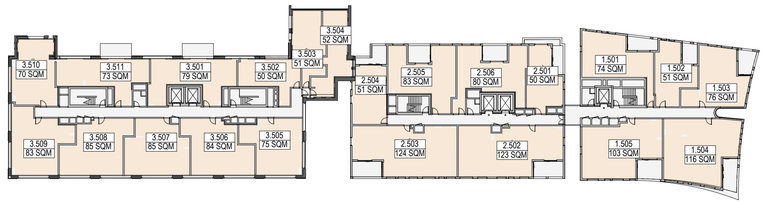
3 / 031 NSA (2-2-2)
Scale 1 : 500



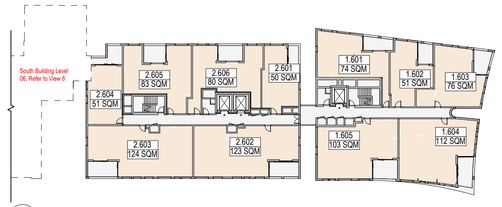
4 / 031 NSA (3-3-3)
Scale 1 : 500



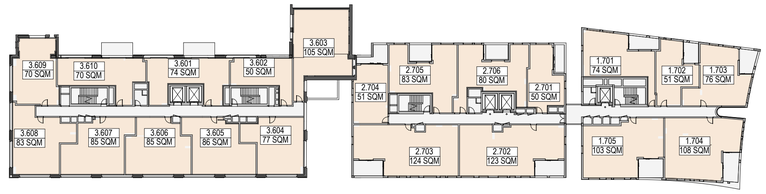
5 / 031 NSA (4-4-4)
Scale 1 : 500



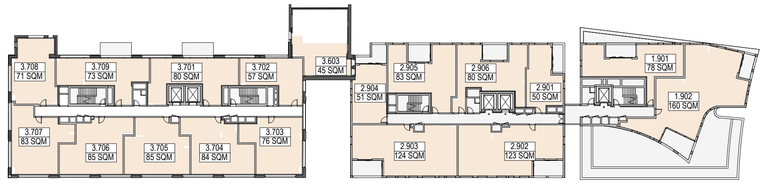
6 / 031 NSA (5-5-5)
Scale 1 : 500



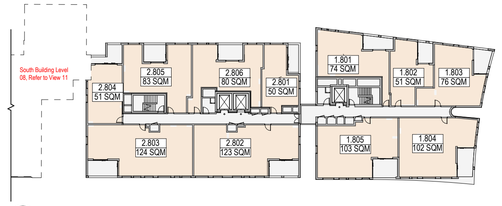
7 / 030 NSA (_6-6)
Scale 1 : 500



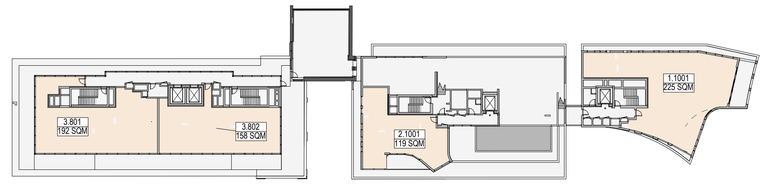
8 / 031 NSA (6-7-7)
Scale 1 : 500



9 / 031 NSA (7-9-9P)
Scale 1 : 500



10 / 030 NSA (_8-8)
Scale 1 : 500



11 / 030 NSA (8-10-10)
Scale 1 : 500

NSA- Room Area Schedule - Southern BTS

LEVEL	NSA
South - L08	350 m²
South - L07	739 m²
South - L06	786 m²
South - L05	786 m²
South - L04	789 m²
South - L03	735 m²
South - L02	336 m²
South - L01	543 m²
South - G00	145 m²
	5,208 m²

NSA- Room Area Schedule - Central BTS

LEVEL	NSA
North/Central - L10	119 m²
North/Central - L09	511 m²
North/Central - L08	511 m²
North/Central - L07	511 m²
North/Central - L06	511 m²
North/Central - L05	511 m²
North/Central - L04	472 m²
Central - L03	253 m²
Central - L02	253 m²
	3,652 m²

NSA- Room Area Schedule - Northern BTS

LEVEL	NSA
North/Central - L10	225 m²
North/Central - L09	237 m²
North/Central - L08	407 m²
North/Central - L07	413 m²
North/Central - L06	417 m²
North/Central - L05	421 m²
North/Central - L04	423 m²
North - L03	222 m²
North - L02	223 m²
	2,988 m²

NSA- Room Area Schedule - Northern Retail

LEVEL	TYPE	AREA
North - L01	Retail	142 m²

NSA- Room Area Schedule - Southern AH

LEVEL	NSA
South - L03	51 m²
South - L02	356 m²
South - L01	127 m²
South - G00	113 m²
	647 m²

NSA- Room Area Schedule - Central AH

LEVEL	NSA
Central - L03	250 m²
Central - L02	249 m²
South - L01	396 m²
	895 m²

NSA- Room Area Schedule - Northern AH

LEVEL	NSA
North - L03	201 m²
North - L02	200 m²
	402 m²

SUBTOTAL NSA BTS

Residential (BTS)	11,848 m²

SUBTOTAL NSA AH

Residential (AH)	1,943 m²

SUBTOTAL NSA Retail

Retail	142 m²

TOTAL NSA

13,933 m²

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Rev.	Issue	Revision Description	Date	Appr by
1		FOR INFORMATION	10.10.2025	
2		FOR INFORMATION	15.10.2025	
3		FOR INFORMATION	10.11.2025	
4		FOR INFORMATION	28.11.2025	
5		FOR INFORMATION	27.01.2026	
6		FOR SSDA COORDINATION	09.03.2026	

Wardle

Gadigal Country
Level 21, 477 Pitt Street
Haymarket, NSW 2000
Australia

+61 2 8277 0900
wardle.studio

ABN 83 006 814 268

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Nom Architect: Jasmin Williamson 11989

Client: TIME & PLACE

Project: Residence
47-97 Marlborough House Surry Hill

Title: NSA

Project No. 2517 | Scale @ A1: As indicated
Date: AUG 2025 | Co-Ord: Designer
Drwn: Author | Chck: Checker
Drawing Status

Drawing No. AR 951 | Revision 6

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THE DISTANCE BETWEEN THESE MARKS SHOULD MEASURE
AS 100mm WHEN SHEET IS PRINTED TO SCALE AS INDICATED

Apartment Schedule - Southern BTS

APT NO.	LEVEL	APT TYPE	APT AREA	BALCONY AREA	APT COUNT
3.101	South - L01	1B	63 m²	15.0 m²	1
3.104	South - L01	2B2B	84 m²		1
3.105	South - L01	2B2B	84 m²		1
3.106	South - L01	2B2B	84 m²		1
3.107	South - L01	2B2B	75 m²	15.0 m²	1
3.204	South - L02	2B2B	84 m²		1
3.205	South - L02	2B2B	85 m²		1
3.206	South - L02	2B2B	85 m²		1
3.207	South - L02	2B2B	82 m²		1
3.301	South - L03	2B2B	79 m²	9.0 m²	1
3.302	South - L03	1B	51 m²	0.0 m²	1
3.303	South - L03	1B	50 m²		1
3.305	South - L03	2B2B	76 m²		1
3.306	South - L03	2B2B	84 m²		1
3.307	South - L03	2B2B	85 m²		1
3.308	South - L03	2B2B	86 m²		1
3.309	South - L03	2B2B	82 m²		1
3.310	South - L03	2B1B	70 m²		1
3.311	South - L03	2B2B	73 m²	9.0 m²	1
3.401	South - L04	2B2B	79 m²	9.0 m²	1
3.402	South - L04	1B	50 m²	0.0 m²	1
3.403	South - L04	1B	50 m²		1
3.404	South - L04	1B	50 m²		1
3.405	South - L04	2B1B	77 m²		1
3.406	South - L04	2B2B	86 m²		1
3.407	South - L04	2B2B	85 m²		1
3.408	South - L04	2B2B	85 m²		1
3.409	South - L04	2B2B	82 m²		1
3.410	South - L04	2B1B	72 m²		1
3.411	South - L04	2B2B	73 m²	9.0 m²	1
3.501	South - L05	2B2B	79 m²	9.0 m²	1
3.502	South - L05	1B	50 m²	0.0 m²	1
3.503	South - L05	1B	51 m²		1
3.504	South - L05	1B	52 m²		1
3.505	South - L05	2B2B	75 m²		1
3.506	South - L05	2B2B	84 m²		1
3.507	South - L05	2B2B	85 m²		1
3.508	South - L05	2B2B	85 m²		1
3.509	South - L05	2B2B	83 m²		1
3.510	South - L05	2B1B	70 m²		1
3.511	South - L05	2B2B	73 m²	9.0 m²	1
3.601	South - L06	2B2B	74 m²	9.0 m²	1
3.602	South - L06	1B	50 m²		1
3.603	South - L06	TH	105 m²		1
3.603	South - L07	TH	45 m²		0
3.604	South - L06	2B2B	77 m²		1
3.605	South - L06	2B2B	86 m²		1
3.606	South - L06	2B2B	85 m²		1
3.607	South - L06	2B2B	85 m²		1
3.608	South - L06	2B2B	83 m²		1
3.609	South - L06	2B1B	70 m²		1
3.610	South - L06	2B1B	70 m²	9.0 m²	1
3.701	South - L07	2B2B	80 m²	9.0 m²	1
3.702	South - L07	1B1B	57 m²		1
3.703	South - L07	2B2B	76 m²		1
3.704	South - L07	2B2B	84 m²		1
3.705	South - L07	2B2B	85 m²		1
3.706	South - L07	2B2B	85 m²		1
3.707	South - L07	2B2B	83 m²		1
3.708	South - L07	2B1B	71 m²		1
3.709	South - L07	2B2B	73 m²	9.0 m²	1
3.801	South - L08	PH	192 m²	25.0 m²	1
3.802	South - L08	PH	158 m²	20.0 m²	1
3.G03	South - G00	TH	66 m²		1
3.G03	South - L01	TH	76 m²		0
3.G04	South - G00	TH	79 m²		1
3.G04	South - L01	TH	78 m²		0

TOTAL SOUTH BTS 64

*3.G03 / 3.G04 / 3.603 ARE DOUBLE-HEIGHT APARTMENTS.

Apartment Schedule - Southern AH

APT NO.	LEVEL	APT TYPE	APT AREA	BALCONY AREA
3.102 (AH)	South - L01	1B	51 m²	15.0 m²
3.103 (AH)	South - L01	2B2B	75 m²	
3.201 (AH)	South - L02	1B	53 m²	0.0 m²
3.202 (AH)	South - L02	1B	50 m²	0.0 m²
3.203 (AH)	South - L02	2B2B	75 m²	
3.208 (AH)	South - L02	2B1B	70 m²	
3.209 (AH)	South - L02	1B	58 m²	0.0 m²
3.210 (AH)	South - L02	1B	50 m²	0.0 m²
3.304 (AH)	South - L03	1B	51 m²	
3.G01 (AH)	South - G00	1B	63 m²	
3.G02 (AH)	South - G00	1B	51 m²	

TOTAL SOUTH AH: 11

Apartment Schedule - Central BTS

APT NO.	LEVEL	APT TYPE	APT AREA	BALCONY AREA
2.202	Central - L02	2B2B	82 m²	
2.203	Central - L02	2B2B	85 m²	
2.204	Central - L02	2B2B	86 m²	
2.302	Central - L03	2B2B	84 m²	
2.303	Central - L03	2B2B	85 m²	
2.304	Central - L03	2B2B	83 m²	
2.401	North/Central - L04	1B	58 m²	
2.402	North/Central - L04	2B1B	71 m²	10.0 m²
2.403	North/Central - L04	2B2B	81 m²	13.0 m²
2.404	North/Central - L04	2B1B	69 m²	0.0 m²
2.405	North/Central - L04	1B	53 m²	
2.406	North/Central - L04	2B1B	70 m²	9.0 m²
2.407	North/Central - L04	2B2B	70 m²	9.0 m²
2.501	North/Central - L05	1B	50 m²	8.0 m²
2.502	North/Central - L05	3B	123 m²	12.0 m²
2.503	North/Central - L05	3B	124 m²	12.0 m²
2.504	North/Central - L05	1B	51 m²	10.0 m²
2.505	North/Central - L05	2B2B	83 m²	10.0 m²
2.506	North/Central - L05	2B2B	80 m²	10.0 m²
2.601	North/Central - L06	1B	50 m²	8.0 m²
2.602	North/Central - L06	3B	123 m²	12.0 m²
2.603	North/Central - L06	3B	124 m²	12.0 m²
2.604	North/Central - L06	1B	51 m²	10.0 m²
2.605	North/Central - L06	2B2B	83 m²	10.0 m²
2.606	North/Central - L06	2B2B	80 m²	10.0 m²
2.701	North/Central - L07	1B	50 m²	8.0 m²
2.702	North/Central - L07	3B	123 m²	12.0 m²
2.703	North/Central - L07	3B	124 m²	12.0 m²
2.704	North/Central - L07	1B	51 m²	10.0 m²
2.705	North/Central - L07	2B2B	83 m²	10.0 m²
2.706	North/Central - L07	2B2B	80 m²	10.0 m²
2.801	North/Central - L08	1B	50 m²	8.0 m²
2.802	North/Central - L08	3B	123 m²	12.0 m²
2.803	North/Central - L08	3B	124 m²	12.0 m²
2.804	North/Central - L08	1B	51 m²	10.0 m²
2.805	North/Central - L08	2B2B	83 m²	10.0 m²
2.806	North/Central - L08	2B2B	80 m²	10.0 m²
2.901	North/Central - L09	1B	50 m²	8.0 m²
2.902	North/Central - L09	3B	123 m²	12.0 m²
2.903	North/Central - L09	3B	124 m²	12.0 m²
2.904	North/Central - L09	1B	51 m²	10.0 m²
2.905	North/Central - L09	2B2B	83 m²	10.0 m²
2.906	North/Central - L09	2B2B	80 m²	10.0 m²
2.1001	North/Central - L10	PH	119 m²	13.0 m²

TOTAL CENTRAL BTS: 44

Apartment Schedule - Central AH

APT NO.	LEVEL	APT TYPE	APT AREA	BALCONY AREA
2.101 (AH)	South - L01	1B	56 m²	
2.102 (AH)	South - L01	1B	50 m²	
2.103 (AH)	South - L01	1B	51 m²	
2.104 (AH)	South - L01	1B	58 m²	
2.105 (AH)	South - L01	1B	51 m²	15.0 m²
2.106 (AH)	South - L01	1B	50 m²	15.0 m²
2.107 (AH)	South - L01	2B2B	81 m²	15.0 m²
2.201 (AH)	Central - L02	1B	57 m²	
2.205 (AH)	Central - L02	1B	54 m²	
2.206 (AH)	Central - L02	1B	60 m²	
2.207 (AH)	Central - L02	2B2B	79 m²	
2.301 (AH)	Central - L03	1B	57 m²	
2.305 (AH)	Central - L03	1B	53 m²	0.0 m²
2.306 (AH)	Central - L03	1B	60 m²	9.0 m²
2.307 (AH)	Central - L03	2B2B	80 m²	9.0 m²

TOTAL CENTRAL AH: 15

Apartment Schedule - Northern BTS

APT NO.	LEVEL	APT TYPE	APT AREA	BALCONY AREA
1.204	North - L02	3B	119 m²	13.0 m²
1.205	North - L02	3B	104 m²	13.0 m²
1.304	North - L03	3B	119 m²	13.0 m²
1.305	North - L03	3B	103 m²	13.0 m²
1.401	North/Central - L04	2B1B	74 m²	10.0 m²
1.402	North/Central - L04	1B	51 m²	8.0 m²
1.403	North/Central - L04	2B2B	76 m²	10.0 m²
1.404	North/Central - L04	3B	119 m²	13.0 m²
1.405	North/Central - L04	3B	103 m²	13.0 m²
1.501	North/Central - L05	2B1B	74 m²	10.0 m²
1.502	North/Central - L05	1B	51 m²	8.0 m²
1.503	North/Central - L05	2B2B	76 m²	10.0 m²
1.504	North/Central - L05	3B	116 m²	12.0 m²
1.505	North/Central - L05	3B	103 m²	12.0 m²
1.601	North/Central - L06	2B1B	74 m²	10.0 m²
1.602	North/Central - L06	1B	51 m²	8.0 m²
1.603	North/Central - L06	2B2B	76 m²	10.0 m²
1.604	North/Central - L06	3B	112 m²	12.0 m²
1.605	North/Central - L06	3B	103 m²	12.0 m²
1.701	North/Central - L07	2B1B	74 m²	10.0 m²
1.702	North/Central - L07	1B	51 m²	8.0 m²
1.703	North/Central - L07	2B2B	76 m²	10.0 m²
1.704	North/Central - L07	3B	108 m²	12.0 m²
1.705	North/Central - L07	3B	103 m²	12.0 m²
1.801	North/Central - L08	2B1B	74 m²	10.0 m²
1.802	North/Central - L08	1B	51 m²	8.0 m²
1.803	North/Central - L08	2B2B	76 m²	10.0 m²
1.804	North/Central - L08	3B	102 m²	12.0 m²
1.805	North/Central - L08	3B	103 m²	12.0 m²
1.901	North/Central - L09	2B2B	78 m²	10.0 m²
1.902	North/Central - L09	PH	160 m²	22.0 m²
1.1001	North/Central - L10	PH	225 m²	20.0 m²

TOTAL NORTHERN BTS: 32

Apartment Schedule - Northern AH

APT NO.	LEVEL	APT TYPE	APT AREA	BALCONY AREA
1.201 (AH)	North - L02	2B1B	74 m²	10.0 m²
1.202 (AH)	North - L02	1B	51 m²	9.0 m²
1.203 (AH)	North - L02	2B2B	75 m²	11.0 m²
1.301 (AH)	North - L03	2B1B	74 m²	10.0 m²
1.302 (AH)	North - L03	1B	51 m²	8.0 m²
1.303 (AH)	North - L03	2B2B	76 m²	10.0 m²

TOTAL NORTHERN AH: 6

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2		FOR INFORMATION	03.02.2026	
3		FOR SSDA COORDINATION	09.03.2026	

Wardle

Gadigal Country
Level 21, 477 Pitt Street
Haymarket, NSW 2000
Australia

+61 2 8277 0900
wardle.studio

ABN 83 006 814 268

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Nom Architect: Jasmin Williamson 11989

Client: TIME & PLACE

Project: Residence
47-97 Marlborough House Surry Hill

Title: Apartment Schedules

Project No. 2517

Scale @ A1

Date

Co-Ord Designer

Drwn Author

Chck Checker

Drawing Status

Drawing No. AR 952

Revision 3

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Appendix D – Site Photographs

eiaustralia	SITE INSPECTION PHOTOGRAPH LOG	
Client Name M House Surry Pty Ltd	**Site Location** 47-97 Marlborough Street, Surry Hills NSW	**Project No.** E26534

Photo No. C1	
Description The general site layout (southern portion), looking west, consists of an eight-level commercial building, as observed on 3 September 2025.	

Photo No. C2	
Description A pad-mounted transformer (S35134) was noted at the northern boundary of the site, as observed on 3 September 2025.	

eiaustralia	SITE INSPECTION PHOTOGRAPH LOG	
Client Name M House Surry Pty Ltd	**Site Location** 47-97 Marlborough Street, Surry Hills NSW	**Project No.** E26534

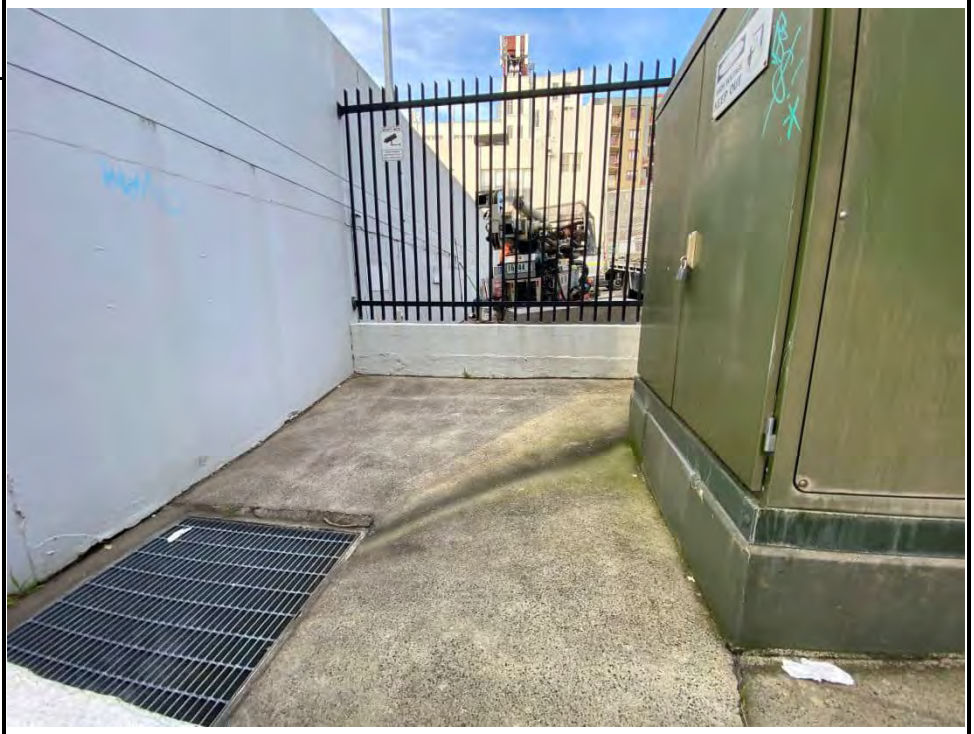
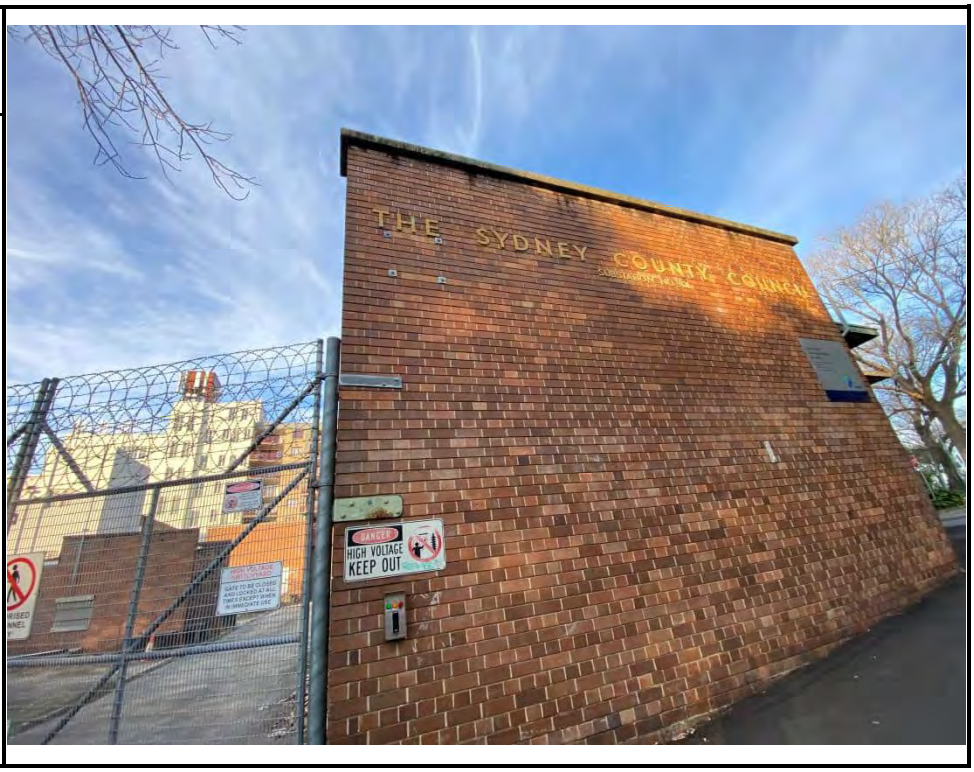
Photo No. C3	
Description A green and black stain was observed leading towards a nearby stormwater drain, as observed on 3 September 2025.	

Photo No. C4	
Description The Sydney County Council – Surry Hills Zone substation No. 901 locates immediately to the north-west of the site, as observed on 3 September 2025.	

eiaustralia	SITE INSPECTION PHOTOGRAPH LOG	
Client Name M House Surry Pty Ltd	**Site Location** 47-97 Marlborough Street, Surry Hills NSW	**Project No.** E26534

Photo No. C5	
Description Four metal covers considered to be potential fuel system access points were observed on the on the hardstand driveway along north-western boundary of the site, indicating the potential presence of a current or former underground petroleum storage system (UPSS), as observed on 3 September 2025.	

Photo No. C6	
Description The potential fuel system access points were filled with soil, indicating any potential UPSS was not in use and may have been decommissioned, as observed on 3 September 2025.	

eiaustralia	SITE INSPECTION PHOTOGRAPH LOG	
Client Name M House Surry Pty Ltd	**Site Location** 47-97 Marlborough Street, Surry Hills NSW	**Project No.** E26534

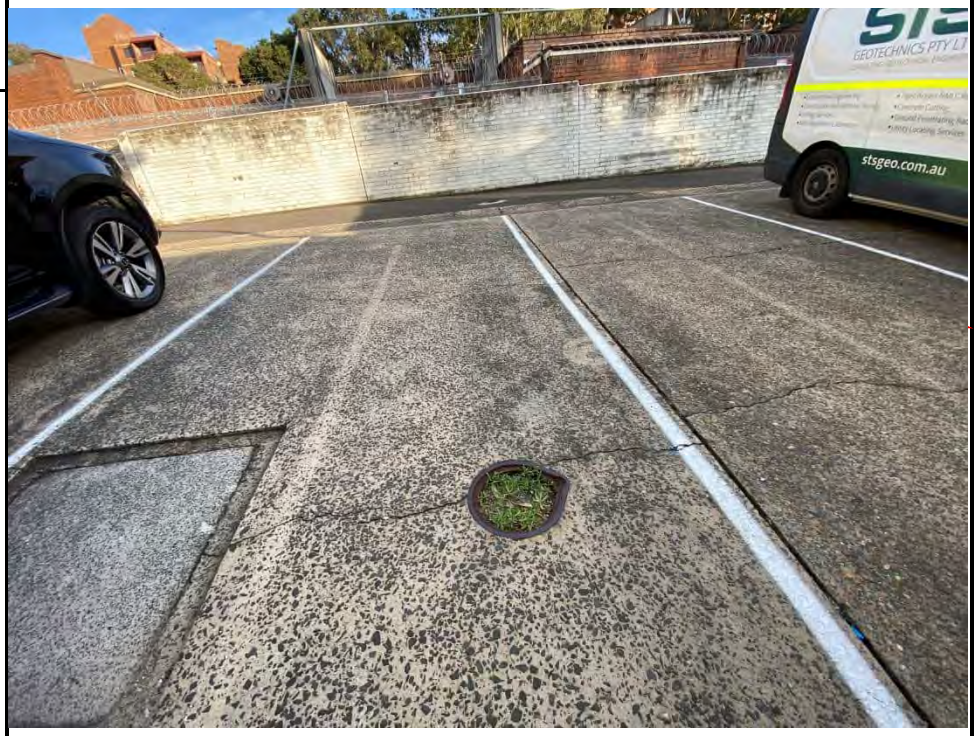
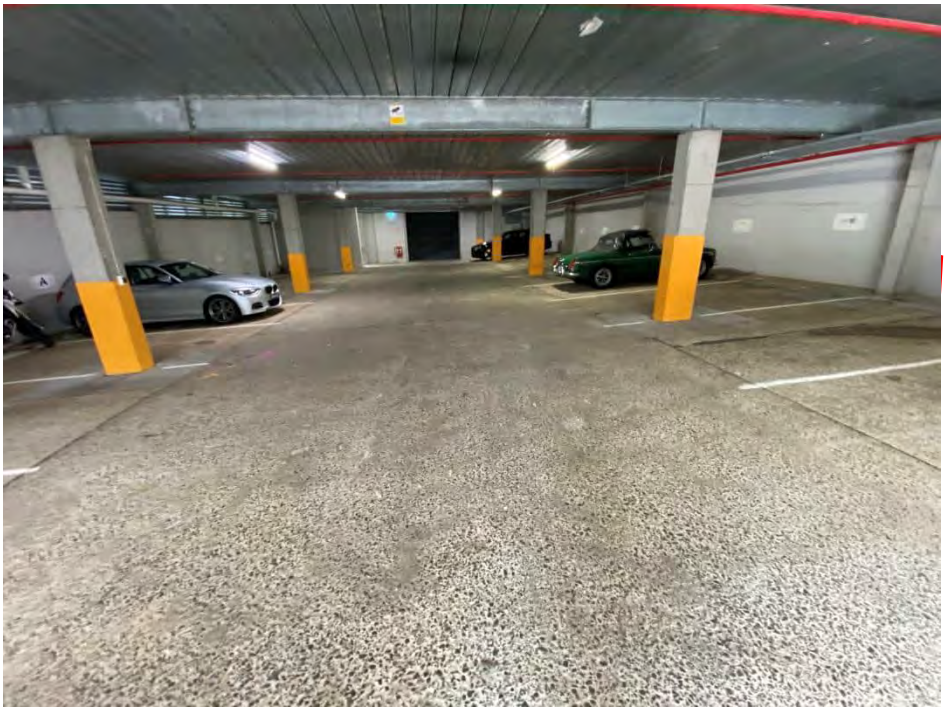
Photo No. C7	
Description A fifth potential fuel system access point was observed in the on-grade car park area in the northern portion of the site. A section of resurfaced concrete was observed immediately nearby, indicating that if an underground storage tank (UST) had once been present it has likely been removed. The cover was missing and the access point was filled with soil at the time of inspection on 3 September 2025.	

Photo No. C8	
Description The building lower ground in the northern portion of the site was used as a car park, as observed on 3 September 2025. No hydrocarbon stains were noted on the hardstand surface.	

eiaustralia	SITE INSPECTION PHOTOGRAPH LOG	
Client Name M House Surry Pty Ltd	**Site Location** 47-97 Marlborough Street, Surry Hills NSW	**Project No.** E26534

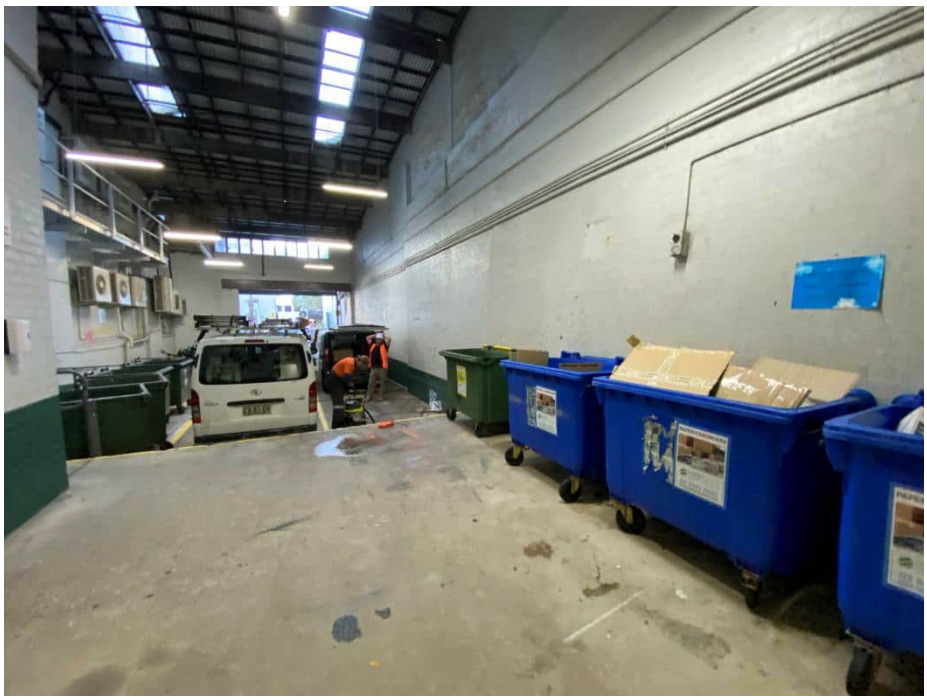
Photo No. C9	
Description The alleyway (under the canopy) along western boundary used as a loading dock and waste collection point, as observed on 3 September 2025. No mass contamination was observed on the hardstand surface.	

Photo No. C10	
Description Accessible soils were identified in the elevated garden beds located along north-eastern side of the property, as observed on 3 September 2025.	

Appendix E – Land Titles

ABN: 36 092 724 251

Summary of Owners Report

Address: - 61 Marlborough Street, Surry Hills, NSW

Description: - Lot 1 D.P. 251056 & Lot 1 D.P. 225393

As regards to Lot 1 D.P. 251056: -

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
	Please note this parcel was formerly an Old System Lane that was in existence from prior to 1860s.	
12.12.1975	Notification of Closing of Roads	Government Gazette published 12.12.1975 Folio 5341
28.01.1976 (1976 to Date)	# Orcades Investments Pty Limited	Volume 12976 Folio 99 Now 1/251056

Denotes Current Registered Proprietor

Leases, excluding premises: - NIL

Easements: - NIL

As regards to Lot 1 D.P. 225393: -

Continued as regards to the part numbered 1 on attached Cadastral Records Enquiry Report: -

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
27.06.1912 (1912 to 1972)	David Jones Limited	Volume 2265 Folio 103 Now Volume 10188 Folio 187

Continued as regards to the part numbered 2 on attached Cadastral Records Enquiry Report: -

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
15.08.1917 (1917 to 1972)	David Jones Limited	Book 1112 No. 476 Now Volume 9710 Folio 159

Continued as regards to the part numbered 3 on attached Cadastral Records Enquiry Report: -

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
17.07.1917 (1917 to 1972)	David Jones Limited	Book 1110 No. 767 Now Volume 9710 Folio 159

Continued as regards to the part numbered 4 on attached Cadastral Records Enquiry Report: -

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
26.07.1917 (1917 to 1972)	David Jones Limited	Volume 1156 Folios 74 & 75 Now Volume 10188 Folio 187

Continued as to the whole of Lot 1 D.P. 225393: -

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
11.12.1972 (1972 to Date)	# Orcades Investments Pty Limited	Volume 10188 Folio 187 Now 1/225393

Denotes Current Registered Proprietor

Leases, excluding premises: -

- Various leases were found from 29.06.1988 that have since been surrendered or expired by effluxion of time – not investigated.
- 19.05.2014 (AI307562): Lease to Telstra Corporation Limited of part shown hatched being 'works area' in plan with AI307562. Commences: 01.07.2014. Expires: 30.11.2023.
- 16.10.2014 (AI802747): Lease to Australia Tower Network Pty Limited (See AT217812) of the part shown hatched in plan with AI802747. Commences: 01.12.2018. Expires: 30.11.2023.

Easements: -

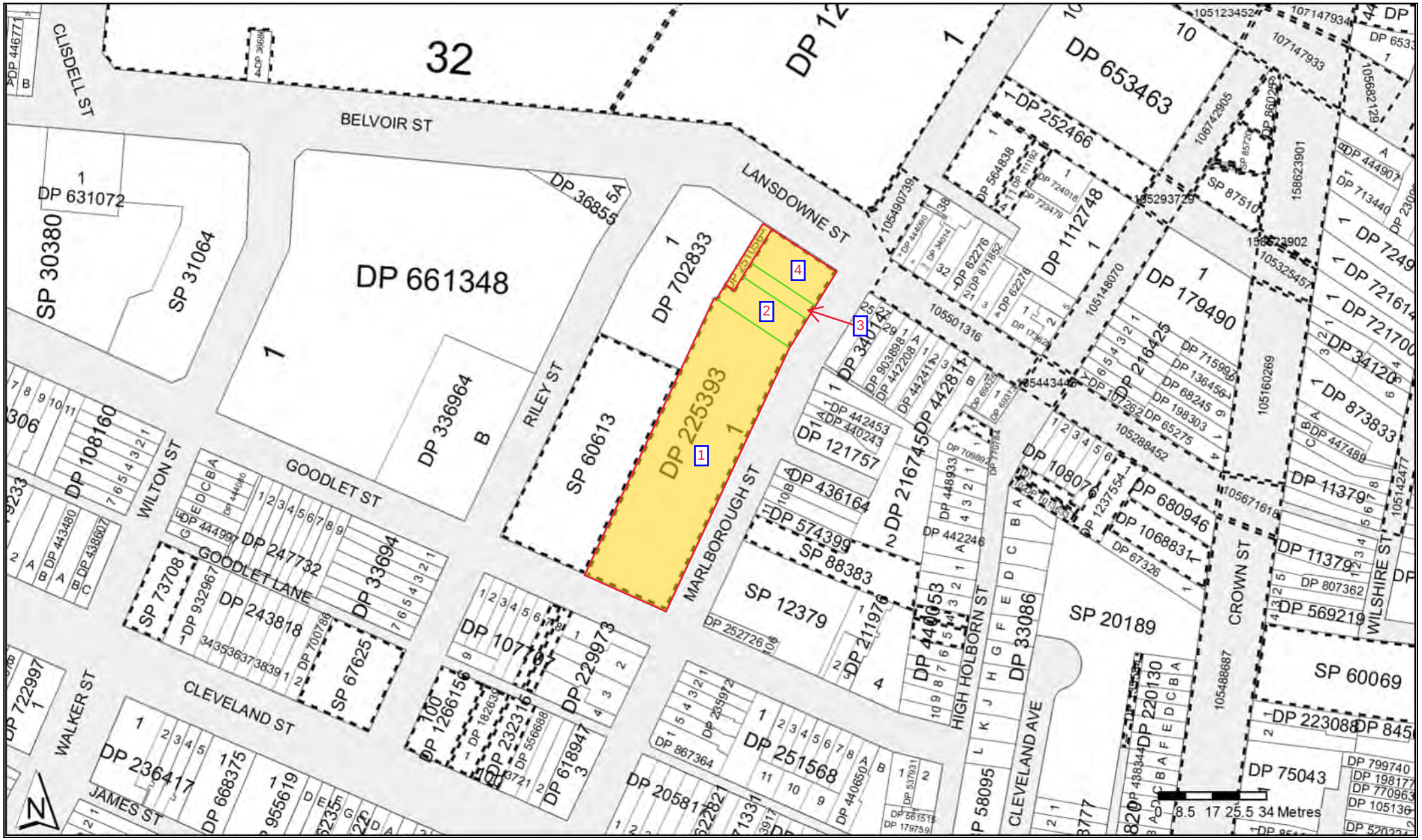
- 09.12.2008 (AE287935): Easement for electricity & other purpose affecting the site designated (E) in plan with AE287935.

Yours Sincerely
Taylor Wilson
19th September 2025

Cadastral Records Enquiry Report : Lot 1 DP 225393

Ref : 61 Marlborough Street, Surry Hills

Locality : SURRY HILLS
Parish : ALEXANDRIA
LGA : SYDNEY
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

InfoTrack

7 NW

R154

PARISH ALEXANDRIA
COUNTY CUMBERLAND
LAND DISTRICT METROPOLITAN
CITY SYDNEY

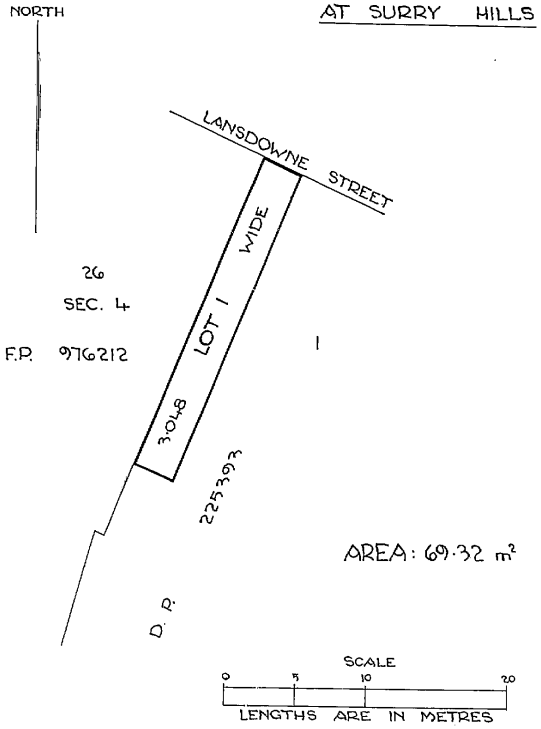
PLAN OF ROAD PURCHASE
APPLICATION BY
ORCADES INVESTMENTS PTY LIMITED

D.P.251056

Registered 26-11-1975
Purpose CROWN GRANT ISSUE
Ref. Map ROLL PLAN 412

D I Z I C O N Z

AT SURRY HILLS



PREPARED IN THE DEPARTMENT OF LANDS

Papers RDS 75·1368

I, Jack Hayward Watson, 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 26th day of November, 1975.

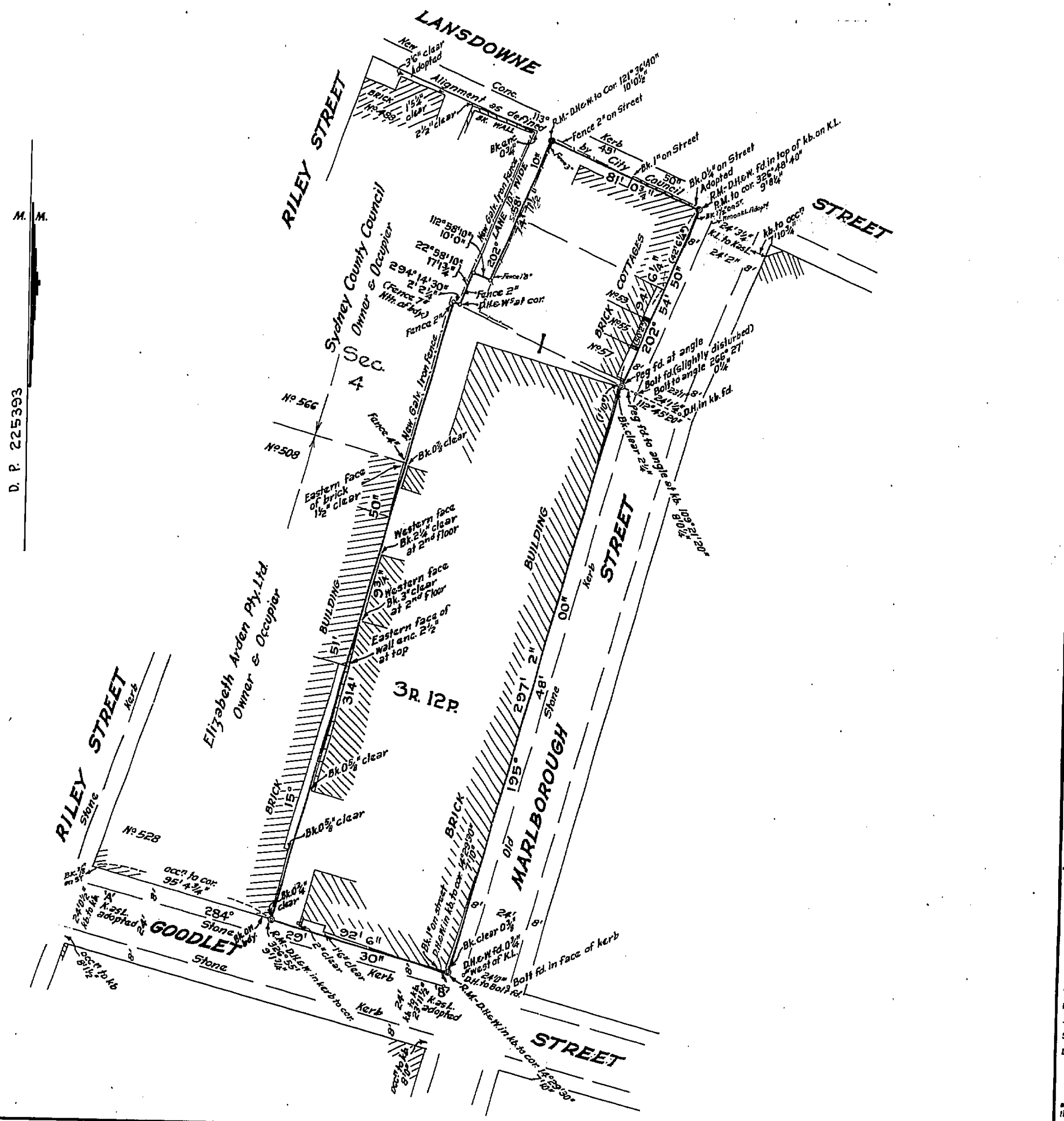
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© Office of the Registrar-General /Src:InfoTrack /Ref:61 Marlborough Street? Surry Hills

Req:R958152 /Doc:DP 0225393 P /Rev:09-Jun-1992 /NSW LRS /Pgs:ALL /Prt:19-Sep-2025 09:41 /Seq:1 of 1
© Office of the Registrar-General /Src:InfoTrack /Ref:61 Marlborough Street? Surry Hills

Plan Form 2—This form must NOT be used where it is intended to dedicate public roads or public reserves or create drainage reserves, easements, or restrictions as to user.—See Form 3. WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION.

WARNING. Plan Drawing only to appear in this space.

D. P. 225393



WARNING. Plan Drawing only to appear in this space.

OFFICE USE ONLY.

N.H.

D P. 225393

Registered: 17.11.1965.

~~C.A.~~

Title System: Torrens

Purpose: Consolidation

Ref. Map: 2080 (L)

Last Plan D. P. 451, D.P. 211578, Roll Plan 412#

PLAN OF Survey of land comprised in Certs. of Title Vo. 1156 Fo's. 74 & 75 and Vo. 2265 Fo. 103 and lots 23, 24 & 25 of part of Sec. 4 of the Marylebone Estate – Surry Hills

Scale: 40 feet **to an inch**

~~**Mun./Shire**~~

City: of Sydney

Locality: Surry Hills

Parish: Alexandria

County: Cumberland

I, *William Lawrence Rain*

of *Colwell Larcombe & Rain, 129 Pitt St. Sydney*

*a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that the survey represented in this plan is accurate and has been made * ~~(1) by me~~ (2) under my immediate supervision in accordance with the Survey Practice Regulations, 1933, and was completed on † 18th February 1963*

Signature..... *Wm. L. Rain*

Surveyor registered under Surveyors Act, 1929, as amended.
Datum Line of Azimuth. *A–B*

225393

Council Clerk's Certificate.

I hereby certify that—

(a) the requirements of the Local Government Act, 1919 (other than the requirements for the registration of plans), and

**(b) the requirements of section 34B of the Metropolitan Water, Sewerage, and Drainage Act, 1924, as amended,*

have been complied with by the applicant in relation to the proposed..................(Insert "new road" or "subdivision") set out herein.

Subdivision No..................

Date..................

(Signature)..................
Council Clerk.

* NOTE.—This part of certificate to be deleted where the application is only for the opening of a new road or where the land to be subdivided is wholly outside the area of operations of the Metropolitan Water Sewerage and Drainage Board.

* Strike out either (1) or (2). † Insert date of survey.

SURVEYORS REFERENCE Nº 22/65/W432

CONVERSION TABLE ADDED IN REGISTRAR GENERAL'S DEPARTMENT

DP 225393

FEET	INCHES	METRES
-	0 1/4	0.006
-	0 3/8	0.010
-	0 5/8	0.016
-	0 3/4	0.019
-	0 7/8	0.022
-	1	0.025
-	1 1/2	0.038
-	2	0.051
-	2 1/4	0.057
-	2 1/2	0.064
-	3	0.076
-	4	0.102
-	7	0.178
1	5 1/4	0.438
1	6	0.457
1	8	0.508
1	10	0.559
2	2 1/4	0.667
3	6	1.067
7	10	2.388
7	10 3/4	2.407
8	-	2.438
8	0 1/4	2.445
8	1 1/2	2.477
9	1 3/4	2.788
9	8 1/4	2.953
10	-	3.048
10	0 1/2	3.061
17	1 3/4	5.226
23	11	7.290
23	11 1/2	7.303
24	-	7.315
24	0 1/2	7.328
24	1 1/4	7.347
24	2	7.366
24	3 1/4	7.398
42	6 1/4	12.960
50	2	15.291
74	7 1/2	22.746
81	0 3/4	24.708
92	6	28.194
94	6 1/4	28.810
95	4 3/4	29.077
297	2	90.576
314	9 3/4	95.955

AC	RD	P	SQ M
-	3	12	3339

10 20 30 40 50 60 70 80 90 100 110 120 130 140
Table of mm

I, Bruce Richard Davies, Registrar General ... certify that this negative is a photograph made as a permanent record of a document in my custody this 30th day of May, 1977

1

John Charles South, James South and Mary Elizabeth South

Resumed land: 3 720 square metres, part C.G., vol. 6044, fol. 86, being part portion 1.

The Council of the Shire of Nambucca

Resumed land: 1 120 square metres, part cemetery, dedicated 18th February, 1870.

Closed roads: lots 1 to 10 inclusive, D.P. 250667, lots 1 to 12 inclusive, D.P. 250671, lots 1 to 13 inclusive, D.P. 250670, lots 1 to 6 inclusive, D.P. 250669, lots 1 to 10 inclusive, D.P. 205668.

NOTE: (1) Lands resumed as "severed" land are not declared to be public road. (2) Non-public road included in the surveys of roads R. 35140-1603, R. 35142-1603 and R. 35143-1603 is declared to be public road.

Parishes Foy and Liebeg, County Durham, Land District Singleton, Shire Patrick Plains

Deviation of road within portion 28 (Parish Liebeg) and portion 8 (Parish Foy), R. 35170-1603. (Council's reference: 166.) Rds 75-1072.

Russell Kenneth Richards

Resumed land: 2 460 square metres, part C.T. 8367, fol. 158, being part portion 28, Parish of Liebeg, and part portion 8, Parish of Foy (F.P. 375391).

Closed road: lot 1, D.P. 250775.

Parish Nullum, County Rous, Land District Murwillumbah, Shire Tweed

Deviation of road within portions 83 and 84, R. 35195-1603R. (Council's reference: MIA/463.) Rds 75-1157.

William Edward Ryan

Resumed land: 5 400 square metres (in five parts), parts C.G., vol. 4923, fol. 140, being parts portion 83.

Douglas Whitlen and Wendy Whitlen

Resumed land: 7 100 square metres, part C.T., vol. 11264, fol. 77, being part portion 84.

Closed roads: lots 1–6 inclusive, D.P. 250982.

NOTE: The non-public road included in the survey of the new road R. 35195-1603 is declared to be public.

Parish Patonga, County Northumberland, Land District Gosford, Shire Gosford

Widening of part of Mt Ettalong Road at Umina, R. 35191-1603. (Council's reference: 5300.100.) Rds 75-1166.

Ronald Raymond Stockings

Resumed land: 70 square metres, part C.T., vol. 4413, fol. 157, being part portion 52 (parts lots 55 and 56, D.P. 11184).

Dennis John Grosse and Marion Lilian Grosse

Resumed land: 15 square metres, part C.T., vol., 12667, fol. 120, being part portion 52 (part lot 58, D.P. 11184).

NOTE: .Resumption is limited to the surface and to a depth of 20 metres below the surface.

Parish Beaufort, County Bathurst, Land District Blayney, Shire Lyndhurst

Deviation of road within and adjoining portion 4, R. 35209-1603R. (Council's reference: 15/42.) Rds 75-1200.

Anthony Raymond Nixon

Resumed land: 1.197 hectares (in three parts), parts C.T., vol. 12516, fol. 68, being parts portion 4.

Resumed land: 890 square metres, part C.T., vol. 8112, fol. 163, being part portion 5.

Resumed land: 1 800 square metres, part C.G., vol. 4728, fol. 187, being part portion 6.

Closed roads: lots 1 and 2, D.P. 250998.

Parish Barham, County Wakool, Land District Deniliquin, Shire Wakool

Deviation of public road through portions 16 and 10, R. 35222-1603R. (Council's reference: R. 12.129.) Rds 75-1243.

Elizabeth Anne Hird and Cyril John Hird

Resumed land: 3.838 hectares (in two parts), part C.T., vol. 7930, fols 4 and 5, being part portions 10, 16 and closed road grant.

Closed road: lot 1, D.P. 251031.

NOTE: Affects easement for water channel (G. 99308) and easement for water supply (L. 562803).

(5286) Sydney, 12th December, 1975.

NOTIFICATION OF CLOSING OF ROADS

IN pursuance of the provisions of the Public Roads Act, 1902, the roads hereunder specified are closed and the lands comprised therein are freed and discharged from any rights of the public or any person to the same as highways.

JOHN M. MASON, Minister for Lands.

Descriptions

Land District and City—Armidale

Parish Armidale, County Sandon. That part of the road south of portion 572 extending easterly 80.5 metres from the road west of portion 572. Rds 75-31.

Land District—Dubbo; Shire—Talbragar

Egbert Wilfred Bennett. Lot 1, D.P. 250015, Parish Whylandra, County Gordon. Rds 75-523.

Land District—Nyngan; Shire—Bogan

Gordon Wilbur Wye. Public reserved road within portion 7, Parish of The Plains, County of Oxley. Rds 75-885.

Land District—Casino; Shire—Tomki

Robert Charles Ellett and Lorraine May Ellett. Lot 1, D.P. 251019, Parish and County Richmond. Rds 75-1031.

Land District and Shire—Tenterfield

Parish and Village Maryland, County Buller. Road (lane) northeast of allotments 1 to 3, section 16. Rds 75-1038.

Land District—Blayney; Shire—Abercrombie

Edwin Alan Marmion. Lots 1 and 2 in D.P. 250965, Parish Mulgunnia, County Georgiana. Rds 75-1051.

Land District—Boorowa; Shire—Harden

Patrick Smith. Lot 1 in D.P. 251054, Parish Jugiong, County Harden. Rds 75-1178.

Land District and City—Albury

John William Cossor. Lot 1, D.P. 250896, Parish Albury, County Goulburn. Rds 75-1192.

Land District—Balranald South; Shire—Wakool

Parish Niemur, County Wakool. Road generally east of and reserved road within portion 72 extending southerly from road R. 24287-1603 to Mallan Mallan Creek. Rds 75-1265.

Land District—Coomealla; Shire—Wentworth

Parish Mourquong, County Wentworth, Town Dareton. That part of Burtundy Street northeast of allotment 1, section 13, bounded on the west by Mitchell Avenue. Rds 75-1329.

Land District—Coonamble; Shire—Gilgandra

Parish Bobarah, County Ewenmar, Village Gilgandra. Road (Gumble Street) from Waugan Street to Merri Street. Rds 75-1330.

Land District—Metropolitan; City—Sydney

Orcades Investments Pty Limited. Lots 1 in D.P. 251056 at Surry Hills, Parish Alexandria, County Cumberland. Rds 75-1368.

(5288) Sydney, 12th December, 1975.

NOTIFICATION OF PROPOSED OPENING OF ROAD

IN pursuance of the provisions of the Public Roads Act, 1902, I propose to consider the opening of a certain road as hereunder described.

All persons interested are hereby called upon to set forth in writing and forward to the Under Secretary for Lands within one month from the date of publication of this notice any objections which may appear to them to exist to this proposal.

Plan illustrating this proposal may be inspected at the office of the Department of Lands in Sydney or for a period of one month from the date of this notice, at the office of the Crown Land Agent for the Land District specified in the particular notice.

JOHN M. MASON, Minister for Lands.

Description

Parish Melrose, County Roxburgh, Land District Bathurst, Shire Turon

Proposed opening of road at the southeast corner of portion 100 adjoining State Highway No. 5, R. 35268-1603. (Council's reference: 74/472/T8; D.M.R. reference: 437.5314.) Rds 75-1327.

Kwak Leong Ng and Joyce Margaret Ng

Proposed resumption: about 460 square metres, freehold, being part portion 100.

National Library of Australia http://nla.gov.au/nla.news-page14788525

Req:R874558 /Doc:CT 12976-099 CT /Rev:28-Feb-2011 /NSW LRS /Pgs:ALL /Prt:04-Sep-2025 12:31 /Seq:1 of 2
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(Page 1) Vol. 12976 Fol. 99

New South Wales

12976099

Vol. 12976 Fol. 99
Registered 6-2-1976
CANCELLED
Registrar General.

No. 1976/86

SEE AUTO FOLIO

GRANT UPON PURCHASE OF UNNECESSARY ROAD

(Under the Public Roads Act, 1902)

Exempt

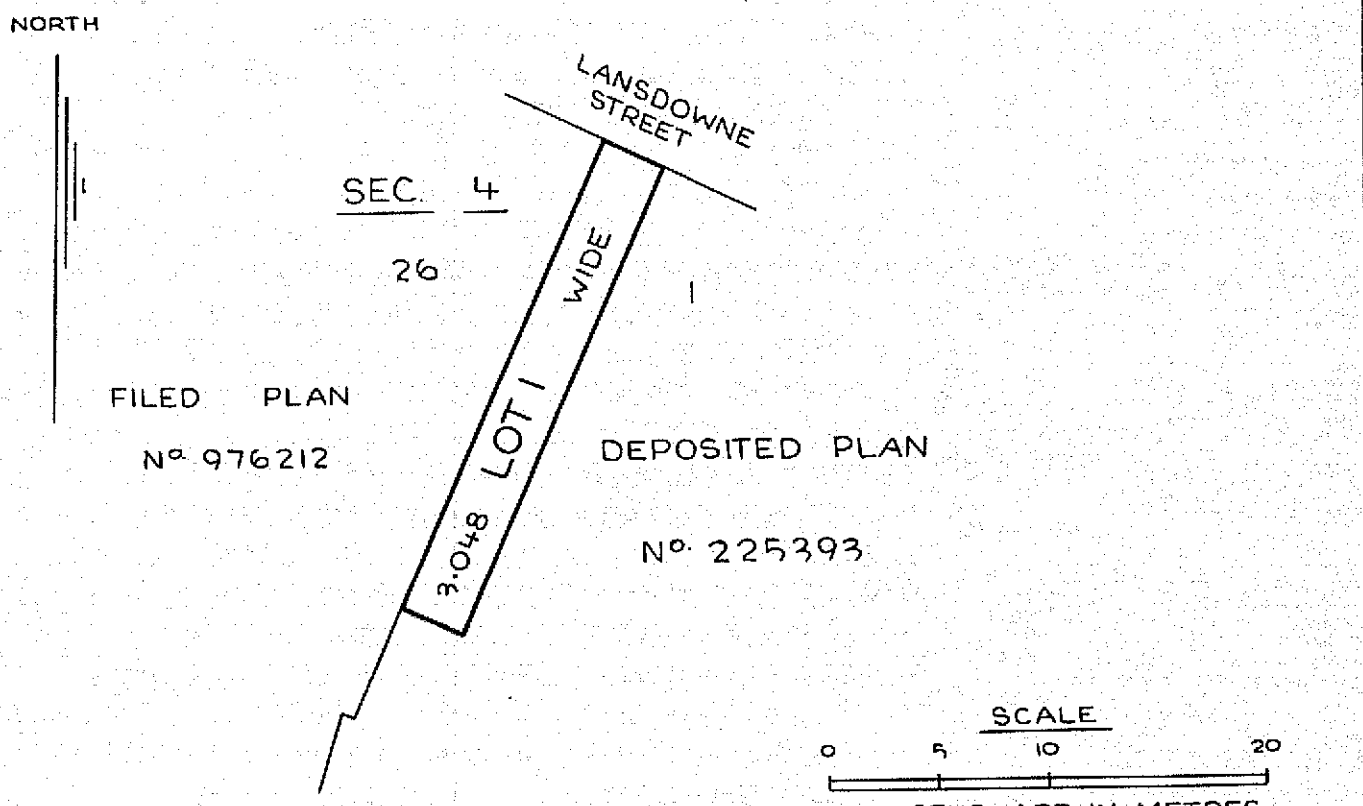
ELIZABETH the SECOND, by the Grace of God Queen of Australia and Her other Realms and Territories, Head of the Commonwealth:—

To All to whom these Presents shall come, Greeting:—

Whereas ORCADES INVESTMENTS PTY. LIMITED

(hereinafter called ~~the GRANTEE~~) being the owner of land adjoining the land hereinafter described and intended to be hereby granted (formerly a road which was duly closed in accordance with the provisions of the Public Roads Act, 1902) agreed to have such land granted to it at the value thereof agreed upon AND WHEREAS all things required by law to be done to entitle the GRANTEE to a Grant of the fee simple of the said land subject to the Reservations and Exceptions hereinafter contained have been done and performed NOW THESE PRESENTS WITNESS That in consideration of the premises WE DO HEREBY GRANT unto the GRANTEE Subject to the Reservations and Exceptions hereinafter contained ALL THAT parcel of land containing by admeasurement sixty nine point three two square metres be the same more or less situated in the County of Cumberland Parish of Alexandria at Surry Hills Being Lot 1 in Deposited Plan No.251056

S



GRM

As per Plan hereon TO HOLD unto the GRANTEE in fee simple PROVIDED NEVERTHELESS AND WE DO HEREBY RESERVE AND EXCEPT unto Us Our Heirs and Successors all minerals which the said Land contains with full power and authority for Us Our Heirs and Successors and such person or persons as shall from time to time be authorised by Us or Them to enter upon the said Land and to search for mine dig and remove the said minerals AND ALSO all such parts and so much of the said Land as may hereafter be required for public ways in over and through the same to be set out by Our Governor for the time being of Our said State or some person by him authorised in that respect with full power for Us Our Heirs and Successors and for Our Governor as aforesaid by such person or persons as shall be by Us Them or him authorised in that behalf to make and conduct all such public ways And the right of full and free ingress egress and regress into out of and upon the said Land for the several purposes aforesaid or any of them IN TESTIMONY WHEREOF We have caused this Our Grant to be Sealed with the Seal of Our said State

Witness Our Lieutenant-Governor of Our State of New South Wales and its Dependencies in the Commonwealth of Australia, at Sydney in Our said State, this twenty eighth day of January in the twenty fourth year of Our Reign and in the year of Our Lord one Thousand nine hundred and seventy six

J. Johnson

Lieutenant-Governor

FOR ENDORSEMENTS SEE PAGE 2

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.

D. West, Government Printer, New South Wales

Vol. 12976 Fol 99

SCHEDULE OF REGISTERED PROPRIETORS

REGISTERED PROPRIETOR	INSTRUMENT			ENTERED	Signature of Registrar-General
	NATURE	NUMBER	DATE		

SCHEDULE OF ENCUMBRANCES ETC.

INSTRUMENT			PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION
NATURE	NUMBER	DATE				

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

Req:R874558 /Doc:CT 12976-099 CT /Rev:28-Feb-2011 /NSW LRS /Pgs:ALL /Prt:04-Sep-2025 12:31 /Seq:2 of 2
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Historical Title Search NSW

04/09/2025 12:24 PM

Client Reference: DI-E26534

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

4/9/2025 12:23PM

FOLIO: 1/251056

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 12976 FOL 99

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
9/11/1987		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
23/5/1997		AMENDMENT: LOCAL GOVT AREA	
14/3/2004	AA472866	DEPARTMENTAL DEALING	
26/11/2024	AU607107	CAVEAT	EDITION 1

*** END OF SEARCH ***

Direct Info Pty Ltd - ABN 25 160 378 263 an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar-General in accordance with Section 96B (2) of the Real Property Act, 1900.

Title Search NSW

04/09/2025 12:21 PM

Client Reference: DI-E26534

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 1/251056

SEARCH DATE	TIME	EDITION NO	DATE
4/9/2025	12:20 PM	1	26/11/2024

LAND

LOT 1 IN DEPOSITED PLAN 251056

AT SURRY HILLS

LOCAL GOVERNMENT AREA SYDNEY

PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND

TITLE DIAGRAM DP251056

FIRST SCHEDULE

ORCADES INVESTMENTS PTY. LIMITED

SECOND SCHEDULE (2 NOTIFICATIONS)

---

1 LAND EXCLUDES MINERALS AND IS SUBJECT TO RESERVATIONS AND CONDITIONS IN FAVOUR OF THE CROWN - SEE CROWN GRANT(S)

* 2 AU607107 CAVEAT BY M HOUSE SURRY PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Direct Info Pty Ltd - ABN 25 160 378 263 an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar-General in accordance with Section 96B (2) of the Real Property Act, 1900.

Req:R958236 /Doc:CT 09710-159 CT /Rev:10-Jan-2011 /NSW LRS /Pgs:ALL /Prt:19-Sep-2025 09:49 /Seq:1 of 2
© Office of the Registrar-General /Src:InfoTrack /Ref:61 Marlborough Street? Surry Hills

09710159

G.

[redacted]TIFICATE OF TITLE

NEW SOUTH WALES — [redacted]VERTY ACT, 1900, as amended.

Application No. 42519

Vol. 9710 Fol. 159

ID 1st Edition issued 21-5-1964

Fol. 159 Vol. 9710 (Page 1)

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.

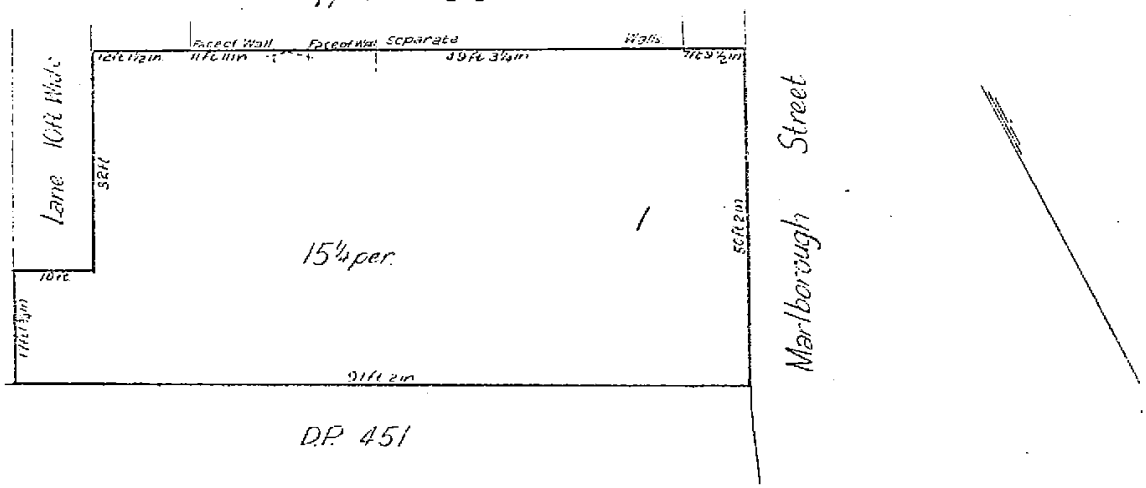
Witness S Maclennan

Registrar-General.

PLAN SHOWING LOCATION OF LAND

CANCELLED

Appn. 9515



DP 211578 CH

Scale: 20 feet to one inch

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 211578 at Surry Hills in the City of Sydney Parish of Alexandria and County of Cumberland being part of 185 acres granted to Edward Smith Hall on 18-4-1822.

Registrar General

FIRST SCHEDULE (continued overleaf)

DAVID JONES LIMITED.

Registrar General

SECOND SCHEDULE (continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grant(s) 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.

9710 159

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
This deed is cancelled as to [illegible] New Certificates of Title have issued for lots in [illegible] Plan No. [illegible] as follows:- Lots 1 Vol. [illegible] Fol. 15 respectively REGISTRAR GENERAL					

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

FORM No. 183A

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

Req:R958236 /Doc:CT 09710-159 CT /Rev:10-Jan-2011 /NSW LRS /Pgs:ALL /Prt:19-Sep-2025 09:49 /Seq:2 of 2
© Office of the Registrar-General /Src:InfoTrack /Ref:61 Marlborough Street? Surry Hills

Req:R958169 /Doc:CT 10188-187 CT /Rev:15-Feb-2011 /NSW LRS /Pgs:ALL /Prt:19-Sep-2025 09:43 /Seq:5 of 6
© Office of the Registrar-General /Src:InfoTrack /Ref:61 Marlborough Street? Surry Hills

CERTIFICATE OF TITLE

NEW SOUTH WALES

REAL PROPERTY ACT, 1900, as amended.

TORRENS TITLE CANCELLED

Register Book

See new edition

Vol. 10188 Fol. 187

Applications Nos. 2561,9515 and 42519
Prior Titles:-
Volume 1156 Folios 74 and 75
Volume 2265 Folio 103
Volume 9710 Folio 159

EH

1st Edition issued 13-12-1965

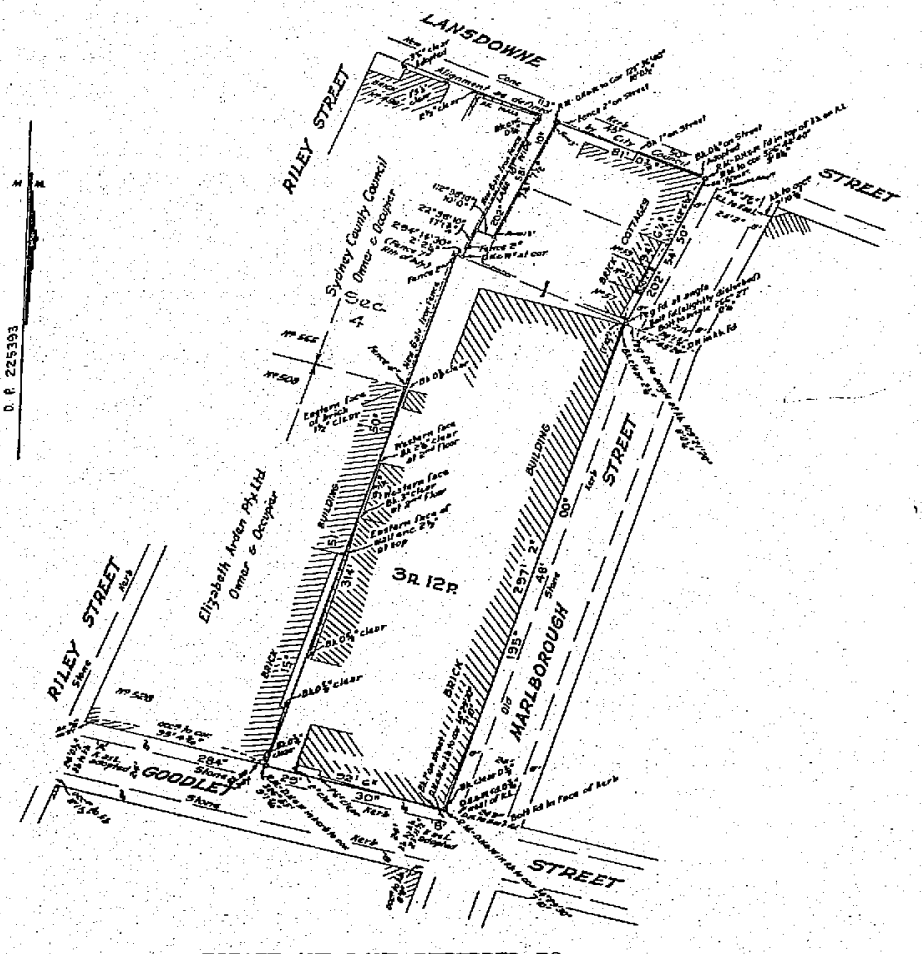
Fol. 187 10188 (Page 1) Vol.

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 J. Charles

Registrar General.

PLAN SHOWING LOCATION OF LAND



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 225393 at Surry Hills in the City of Sydney Parish of Alexandria and County of Cumberland being part of 185 acres granted to Edward Smith Hall on 18-4-1822.

FIRST SCHEDULE (continued overleaf)

~~DAVID JONES LIMITED~~.

Registrar General.

SECOND SCHEDULE (continued overleaf)

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.

ST 1608 V. C. N. PLIGHT, GOVERNMENT PRINTER

Vol. 10188 Fol 187

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar General
Orradio Investments Pty Limited	Transfer	N9567	30/10/1972	11/12/1972	

CANCELLED

See new edition issued 19-9-1980
Vol- 10188 fol- 187
Vide R977545-

REGISTRAR GENERAL

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION		
Mortgage	N825345	29-4-1974	to Commonwealth Trading Bank ofAustralia	9-5-1974				
~~Lease~~	~~P97054~~	~~26-7-1974~~	~~of premises being the first floor of building known as 59-97 Marlborough St.Surry Hills excluding the common areas as more fully described in Lease No.P97054 together with rights to Elizabeth Arden Pty Limited~~	~~23-12-1974~~		Expired	R977545	
~~Lease~~	~~P97055~~	~~18-3-1974~~	~~of premises being the ground floor of building known as 59-97 Marlborough St. Surry Hills excluding the common areas as more fully described in Lease No.P97055 together with rights to David Jones Sydney Pty. Limited.~~	~~23-12-1974~~		Expired	R977547	
Mortgage	P182987	16-8-1974.	to Commonwealth Trading Bank of Australia.	11-3-1975.				
Lease	P201868	11-11-1974	of premises being Suite 1 on the Ground Floor of the building known as 47 Marlborough Street, Surry Hills, (together with rights) to Lifinia Pty. Limited.	3-4-1975				
Lease	P629039	------	of premises being Suite 2 and 3 on the Ground Floor of the building known as 47 Marlborough Street, Surry Hills, together with rights, to Lifinia Pty. Limited	9-3-1976				
Lease	R977545	——	of premises being ground floor of the building known as 59-97 Marlborough Street Surry Hills extending to the exterior of all walls together with rights to David Jones Limited Date of Expiry 30-4-1980	1-9-1980				

(Page 2 of 2 pages)

FORM No. 62

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

N9567 Tr
N825346 M
CT 15-11-74
P97054 Lease (Surrender) 24.2.88
P97055 Lease 9th Floor
P182987 M &
C.T 19.3.75
P201868 Lease Suite 1 Ground Floor 47 Marlborough St Surry Hills
CT 18/2/76
P629039 (
C.T. 9.7.80
R977545 Lease Prem.
R979735
S462981 Lease

Req:R958169 /Doc:CT 10188-187 CT /Rev:15-Feb-2011 /NSW LRS /Pgs:ALL /Prt:19-Sep-2025 09:43 /Seq:6 of 6
© Office of the Registrar-General /Src:InfoTrack /Ref:61 Marlborough Street? Surry Hills

Req:R958169 /Doc:CT 10188-187 CT /Rev:15-Feb-2011 /NSW LRS /Pgs:ALL /Prt:19-Sep-2025 09:43 /Seq:1 of 6
© Office of the Registrar-General /Src:InfoTrack /Ref:61 Marlborough Street? Surry Hills

10188:187

[redacted]ICATE OF TITLE

NEW SOUTH WALES

[redacted]L PROPERTY ACT, 1900-

Appln. Nos.2561,9515 & 42519

Prior Titles:
Vol. 1156 Fols. 74 & 75
Vol. 2265 Fol.103
Vol. 9710 Fol.159

Vol. 10188 Fol. 187

EDITION ISSUED
19 9 1980

(Page 1) Vol. 10188 Fol. 187

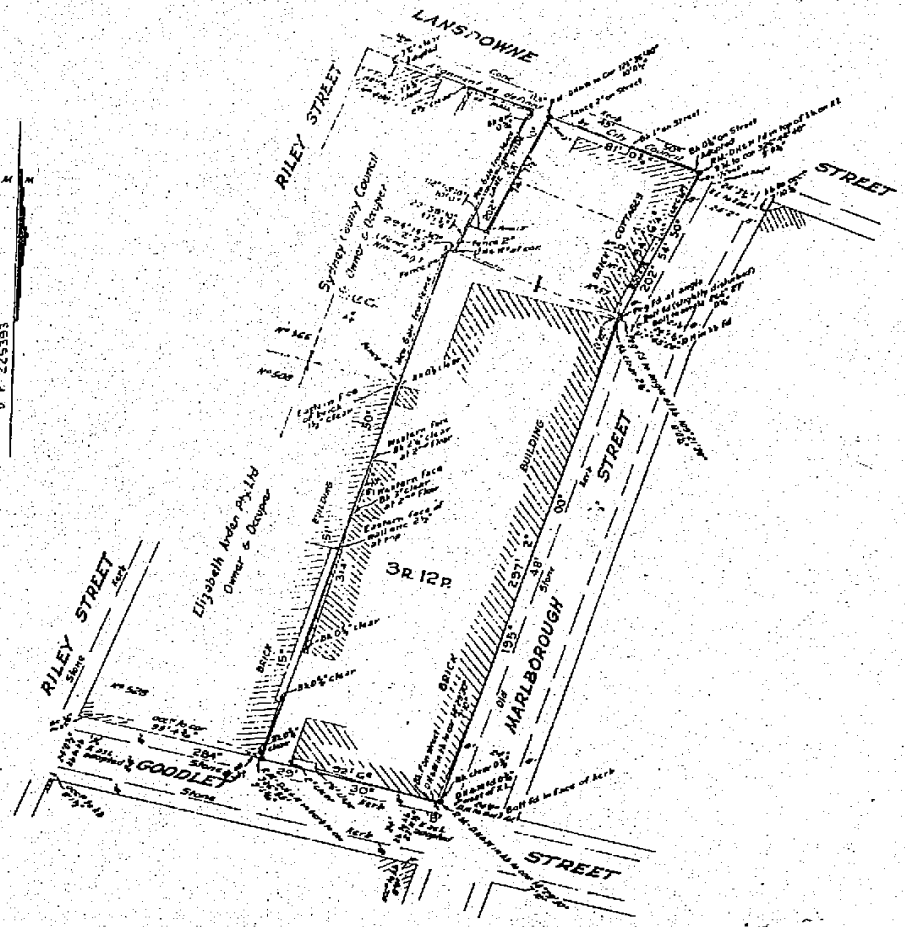
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

Registrar General.

SEE AUTO FOLIO

PLAN SHOWING LOCATION OF LAND



R977545

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 225393 at Surry Hills in the City of Sydney Parish of Alexandria and County of Cumberland being part of 185 acres granted to Edward Smith Hall on 18-4-1822.

FIRST SCHEDULE

ORCADES INVESTMENTS PTY. LIMITED.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. N825346P Mortgage to Commonwealth Trading Bank of Australia.
3. P182987P Mortgage to Commonwealth Trading Bank of Australia.
4. ~~P201868 Lease of premises being Suite 1 on the ground floor of the building known as 47 Marlborough Street, Surry Hills (together with rights) to Lifinia Pty.Limited, with option to renew. Expires 31-12-1979.~~ With Expired 1-10-1980.
5. P629039 Lease of premises being Suites 2 and 3 on the ground floor of the building known as 47 Marlborough Street, Surry Hills, together with rights to Lifinia Pty. Limited, with option to renew. Expires 1-1-1980.
6. R977545 Lease of premises being ground floor of the building known as 59-97 Marlborough Street, Surry Hills extending to the exterior of all walls;together with rights to David Jones Limited. Expires 30-4-1986.

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:R958169 /Doc:CT 10188-187 CT /Rev:15-Feb-2011 /NSW LRS /Pgs:ALL /Prt:19-Sep-2025 09:43 /Seq:2 of 6
© Office of the Registrar-General /Src:InfoTrack /Ref:61 Marlborough Street? Surry Hills

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General

CANCELLED

SEE AUTO FOLIO

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
~~Lease~~	~~S46298~~	~~of premises being Suite 1, Ground Floor, 47 Marlborough Street, Surry Hills, together with option of renewal, to Lif[illegible] Pty.Limited. Expires 31-12-1984.~~	~~1-10-1980~~		Expired	20-3-1985
~~S648952~~	~~Lease~~	~~to P.& Y. Balas Pty.Limited of premises known as 3rd Floor 61 Marlborough Street, Surry Hills, together with rights and an option of renewal. Expires 30-3-1986, Registered 25-8-1981~~			Expired	9-9-1986
~~S974788~~	~~Lease~~	~~to Bill Machin and John Colin Bristow as tenants in common of premises being Suite 55, Fifth Floor of the building known as 61 Marlborough Street, Surry Hills, together with rights and Option of Renewal. Expires 22-11-1982. Registered 2-4-1982~~			Cancelled	W72545
~~T179737~~	~~Lease~~	~~to Baggs by Levi Pty. Limited of premises being Suite 51 on the Fifth Floor of the building known as 61 Marlborough Street, Surry Hills, together with and reserving rights and an option of renewal. Expires 19-9-1984. Registered 11-8-1982~~			Expired	9-9-1986
T222279	Lease	to Luminous Imports Pty. Limited of premises being Suite 54, 5th floor of building situate at 61 Marlborough Street, Surry Hills, together with rights and option of renewal. Expires 30-4-1984. Registered 13-9-1982				
~~T473441~~	~~Lease~~	~~to Nolese Pty. Limited of premises being Suites 63 and 64, 6th Floor of the building at 61 Marlborough Street, Surry Hills, together with rights and option of renewal. Expires 30-6-1985. Registered 30-3-1983~~			Cancelled	V187664
V124373	Lease	to Kays Bag Stores (N.S.W.) Pty. Limited of Suites 63, 64 on 6th Floor, 61 Malborough Street, Surry Hills, with and reserving rights and an option of renewal. Expires 31-8-1988. Registered 27-7-1984			Surrendered	W94827

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

SECOND SCHEDULE (continued)

NATURE	INSTRUMENT NUMBER	DATE	PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION		
L	V316756	p	Lease to Alsco Linen Service Pty. Limited of 7th Floor, 61 Marlborough Street, Surry Hills with rights. Expires 28.2.1987. Registered 11.9.1984					
	~~V482669~~		~~Lease to Pardell Holdings Pty. Limited of 4th floor building 61 Marlborough Street Surry Hills with rights Expires 30-6-1986 Option of renewal 5 See V482669 Registered 20-12-1984~~			Surrendered	W160482	
L	V516222	p	Lease to Lifinia Pty.Limited of whole of the Second Floor, 61 Marlborough Street, Surry Hills, with rights. Expires 31-12-1989. Option of renewal 5 years. Registered 20-3-1985.					
L	V516224	p	Lease to Lifinia Pty.Limited of Suite 1, Ground Floor, 47-61 Marlborough Street, Surry Hills, with rights. Expires 31-12-1989. Option of renewal 5 years. Registered 20-3-1985.					
L	V593021	p	Lease to Ingala Pty. Limited of Suite 55, 5th Floor, 61 Marlborough Street, Surry Hills, with rights. Expires 14-3-1986. Option of renewal 3 years. Registered 11-12-1985					
	~~V641143~~		~~Lease to Teddy & Friends Pty. Limited of Suites 63 and 64, 6th Floor, 61 Marlborough Street, Surry Hills, with and reserving rights. Expires 30-11-1986. Option of renewal 3 years. Registered 6-2-1986~~			Expired	14-8-1987	
L	W394326	p	Lease to Ingala Pty. Limited of Suites 51 and 52, 5th floor, 61 Marlborough Street, Surry Hills. together with rights. Expires 14-1-1989. Option of renewal 3 years. Registered 9-9-1986					
L	W457930	p	Lease to P. & Y. Halas Pty. Limited of third floor, 61 Marlborough Street, Surry Hills together with rights. Expires 31-3-1989. Registered 9-9-1986					
L	W888527	p	Lease to P. & Y Halas Pty. Limited of premises being whole of first floor, 59 Marlborough Street Surry Hills together with rights Expires 31-3-1989 Option of renewal 3 years Registered 1-6-1987					
X	W898873	p	Caveat by P and Y Halas Pty Limited of the premises being the 3rd Floor, 61 Marlborough Street Surry Hills. Registered 11-6-1987.					
L	W967843	p	Lease to Sola International Holdings Limited of premises being Suites 63 and 64, Sixth Floor, 61 Marlborough Street, Surry Hills, together with and reserving rights. Expires 14-4-1990 Option of renewal 3 years. Registered 14-8-1987					
L	X147496	p	Lease to T. & J. Design Pty. Limited of premises being Suite 65, Sixth floor, 61 Marlborough Street, Surry Hills together with and reserving rights Expires 5-8-1989 Option of renewal 2 years Registered 29-10-1987					

RG 2/74

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

Req:R958169 /Doc:CT 10188-187 CT /Rev:15-Feb-2011 /NSW LRS /Pgs:ALL /Prt:19-Sep-2025 09:43 /Seq:3 of 6
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Vol. 10188 Fol. 187

SECOND SCHEDULE (continued)

INSTRUMENT			PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION		
NATURE	NUMBER	DATE						

(Page 4 of 4 pages)

RG 2/74

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

Req:R958169 /Doc:CT 10188-187 CT /Rev:15-Feb-2011 /NSW LRS /Pgs:ALL /Prt:19-Sep-2025 09:43 /Seq:4 of 6
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LAND REGISTRY SERVICES Historical Search

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
19/9/2025 9:42AM

FOLIO: 1/225393

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 10188 FOL 187

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
15/4/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
29/6/1988	X644490	LEASE	EDITION 1
12/10/1988	X890574	LEASE	
12/10/1988	X890576	LEASE	
12/10/1988	X890578	LEASE	EDITION 2
29/9/1989	Y433879	LEASE	
29/9/1989	Y495801	LEASE	
29/9/1989	Y543145	LEASE	EDITION 3
22/11/1989	Y701670	LEASE	
22/11/1989	Y701671	LEASE	EDITION 4
9/5/1990	Y976752	LEASE	
9/5/1990	Y976753	LEASE	EDITION 5
29/6/1990	Z73982	LEASE	EDITION 6
6/9/1991	Z887586	LEASE	
6/9/1991	Z887587	LEASE	EDITION 7
19/1/1993	I55521	DISCHARGE OF MORTGAGE	EDITION 8
5/3/1993	I165944	REQUEST	EDITION 9
21/4/1993	I272260	LEASE	EDITION 10
6/9/1994	U593696	LEASE	EDITION 11
22/11/1994	U789728	LEASE	EDITION 12
14/3/1995	O85961	DISCHARGE OF MORTGAGE	EDITION 13
20/3/1995	O99389	LEASE	EDITION 14

END OF PAGE 1 - CONTINUED OVER

Recorded	Number	Type of Instrument	C.T. Issue
25/10/1995	O635899	LEASE	EDITION 15
20/5/1997		AMENDMENT: LOCAL GOVT AREA	
17/4/1998	DP268746	DEPOSITED PLAN	EDITION 16
4/6/1998	5033415	LEASE	EDITION 17
19/6/1998	5067009	TRANSFER OF LEASE	EDITION 18
21/7/1999	5953584	REQUEST	EDITION 19
20/10/1999	6279326	DEPARTMENTAL DEALING	
20/10/1999	6274531	LEASE	
20/10/1999	6274532	LEASE	EDITION 20
19/11/1999	6357827	SURRENDER OF LEASE	EDITION 21
29/2/2000	6526654	LEASE	EDITION 22
10/3/2000	6632627	LEASE	EDITION 23
22/5/2000	6659978	LEASE	EDITION 24
27/9/2000	7111125	TRANSFER OF LEASE	
11/4/2001	7540282	LEASE	
11/4/2001	7540283	LEASE	EDITION 25
9/7/2001	7749511	LEASE	EDITION 26
22/10/2001	7931559	LEASE	
22/10/2001	7931560	LEASE	
22/10/2001	7939587	LEASE	EDITION 27
26/6/2002	8717130	TRANSFER OF LEASE	
17/6/2003	9703322	SURRENDER OF LEASE	EDITION 28
24/12/2003	AA284380	LEASE	EDITION 29
14/3/2004	AA472866	DEPARTMENTAL DEALING	

END OF PAGE 2 - CONTINUED OVER

Recorded	Number	Type of Instrument	C.T. Issue
22/3/2004	AA510506	LEASE	EDITION 30
21/6/2004	AA733527	LEASE	EDITION 31
20/8/2004	AA880790	LEASE	EDITION 32
14/6/2005	AB447437	LEASE	EDITION 33
16/1/2006	AC26245	SURRENDER OF LEASE	
16/1/2006	AC26246	LEASE	EDITION 34
24/1/2006	AC67187	LEASE	EDITION 35
21/3/2006	AC190242	LEASE	EDITION 36
17/5/2006	AC311796	SUB-LEASE	
27/11/2006	AC767326	LEASE	EDITION 37
19/2/2007	AC945897	LEASE	EDITION 38
27/4/2007	AD56035	LEASE	EDITION 39
23/5/2007	AD138816	LEASE	EDITION 40
4/6/2007	AD167958	TRANSFER OF LEASE	
4/6/2007	AD167959	VARIATION OF LEASE	EDITION 41
20/12/2007	AD642734	LEASE	EDITION 42
5/2/2008	AD744677	LEASE	EDITION 43
3/7/2008	AE68112	CAVEAT	
9/12/2008	AE287935	TRANSFER GRANTING EASEMENT	EDITION 44
2/4/2009	AE591960	SURRENDER OF LEASE	EDITION 45
2/7/2009	AE809101	LEASE	EDITION 46
27/8/2009	AE882833	LEASE	EDITION 47
19/1/2011	AF864437	REQUEST	

END OF PAGE 3 - CONTINUED OVER

Recorded	Number	Type of Instrument	C.T. Issue
19/1/2011	AF864438	REQUEST	
19/1/2011	AF864439	LEASE	EDITION 48
22/3/2011	AG132041	LEASE	EDITION 49
27/5/2011	AG213579	LEASE	
27/5/2011	AG213580	LEASE	EDITION 50
17/6/2011	AG296081	LEASE	EDITION 51
24/1/2012	AG340943	LEASE	
24/1/2012	AG340944	LEASE	EDITION 52
23/10/2012	AH317252	TRANSFER OF LEASE	
3/4/2014	AI325933	WITHDRAWN - REQUEST	
19/5/2014	AI307562	LEASE	
19/5/2014	AI325931	REQUEST	
19/5/2014	AI325932	REQUEST	
25/7/2014	AI360464	REJECTED - SURRENDER OF LEASE	
25/7/2014	AI360465	REJECTED - LEASE	
25/7/2014	AI360466	REJECTED - LEASE	
16/10/2014	AI802745	SURRENDER OF LEASE	
16/10/2014	AI802746	LEASE	
16/10/2014	AI802747	LEASE	EDITION 53
8/11/2014	AJ22772	LEASE	EDITION 54
27/2/2015	AJ293154	TRANSFER OF LEASE	
27/2/2015	AJ293155	VARIATION OF LEASE	
27/2/2015	AJ293162	LEASE	EDITION 55
4/8/2015	AJ706332	SURRENDER OF LEASE	EDITION 56
23/8/2016	AK532893	DEPARTMENTAL DEALING	EDITION 57
13/9/2016	AK748075	VARIATION OF LEASE	EDITION 58
3/4/2017	AM277954	VARIATION OF LEASE	EDITION 59

END OF PAGE 4 - CONTINUED OVER

SEARCH DATE

19/9/2025 9:42AM

FOLIO: 1/225393 PAGE 5

Recorded	Number	Type of Instrument	C.T. Issue
7/8/2018	AN559449	VARIATION OF LEASE	EDITION 60
19/12/2019	AP787746	LEASE	
19/12/2019	AP787747	LEASE	EDITION 61
5/4/2023	AS977212	VARIATION OF LEASE	EDITION 62
18/7/2023	AT217812	TRANSFER OF LEASE	EDITION 63
5/2/2024	AT808722	VARIATION OF LEASE	EDITION 64
26/11/2024	AU607107	CAVEAT	EDITION 65

*** END OF SEARCH ***

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Received: 19/09/2025 09:42:48

LAND REGISTRY SERVICES

Title Search

InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 1/225393

SEARCH DATE	TIME	EDITION NO	DATE
19/9/2025	9:41 AM	65	26/11/2024

LAND

LOT 1 IN DEPOSITED PLAN 225393
AT SURRY HILLS
LOCAL GOVERNMENT AREA SYDNEY
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP225393

FIRST SCHEDULE

ORCADES INVESTMENTS PTY. LIMITED

SECOND SCHEDULE (7 NOTIFICATIONS)

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1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

2 AE287935 EASEMENT FOR ELECTRICITY & OTHER PURPOSES AFFECTING THE SITE DESIGNATED (E) IN PLAN WITH AE287935

3 AI307562 LEASE TO TELSTRA COPORATION LIMITED OF THE PART SHOWN HATCHED BEING 'WORKS AREA' IN PLAN WITH AI307562. COMMENCES: 1/7/2014. EXPIRES: 30/6/2024.

4 AI802747 LEASE TO AUSTRALIA TOWER NETWORK PTY LIMITED (SEE AT217812) OF THE PART SHOWN HATCHED IN PLAN WITH AI802747. COMMENCES: 1/12/2018. EXPIRES: 30/11/2023.

5 AP787746 LEASE TO ZENITH INTERIORS PTY LTD OF SUITE 201, LEVEL 2, 61 MARLBOROUGH, SURRY HILLS. COMMENCES 01/03/2020. EXPIRES: 28/2/2023. OPTION OF RENEWAL: 3 YEARS.

AT808722 VARIATION OF LEASE AP787746 EXPIRY DATE NOW 28/2/2026. OPTION OF RENEWAL: PRESERVED.

6 AP787747 LEASE TO PAPER MOOSE PTY. LTD. OF SUITE 1, GROUND FLOOR, 41-61 MARLBOROUGH STREET, SURRY HILLS. EXPIRES: 30/11/2022. OPTION OF RENEWAL: 3 YEARS.

AS977212 VARIATION OF LEASE AP787747 EXPIRY DATE NOW 30/11/2026. OPTION OF RENEWAL: RELINQUISHED.

* 7 AU607107 CAVEAT BY M HOUSE SURRY PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Received: 19/09/2025 09:41:15

Appendix F – Lotsearch (2025)

LOTSEARCH

LOTSEARCH ENVIRO LITE

Date: 05 Sep 2025 14:55:42

Reference: LS096776 EL

Address: 61 Marlborough Street, Surry Hills, NSW 2010

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	04/09/2025	04/09/2025	Monthly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	20/05/2025	20/05/2025	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority NSW	13/08/2025	08/07/2025	Monthly	1000m	0	0	9
Contaminated Land Records of Notice	Environment Protection Authority NSW	13/08/2025	13/08/2025	Monthly	1000m	0	0	2
Former Gasworks	Environment Protection Authority NSW	14/08/2025	23/06/2025	Quarterly	1000m	0	0	1
Notices under the POEO Act 1997	Environment Protection Authority NSW	04/08/2025	04/08/2025	Monthly	1000m	0	0	6
National Waste Management Facilities Database	Geoscience Australia	30/05/2025	19/01/2023	Annually	1000m	0	0	2
National Liquid Fuel Facilities	Geoscience Australia	16/10/2024	19/01/2023	Annually	1000m	0	0	5
EPA PFAS Investigation Program	Environment Protection Authority NSW	01/08/2025	05/02/2025	Monthly	2000m	0	0	1
Defence PFAS Investigation & Management Program - Investigation Sites	Australian Department of Defence	14/08/2025	14/08/2025	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Australian Department of Defence	14/08/2025	14/08/2025	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	14/08/2025	21/05/2025	Monthly	2000m	0	0	0
Defence Controlled Areas	Australian Department of Defence	15/07/2025	15/07/2025	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Australian Department of Defence	14/08/2025	02/09/2022	Quarterly	2000m	0	0	1
National Unexploded Ordnance (UXO)	Australian Department of Defence	15/07/2025	15/07/2025	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority NSW	28/11/2024	15/12/2022	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority NSW	25/08/2025	25/08/2025	Monthly	1000m	0	0	3
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority NSW	25/08/2025	25/08/2025	Monthly	1000m	0	0	2
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority NSW	25/08/2025	25/08/2025	Monthly	1000m	0	0	14
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	100m	26	204	204
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	100m	-	30	30
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	250m	0	40	119
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	250m	-	7	8
Points of Interest	NSW Department of Customer Service - Spatial Services	18/08/2025	18/08/2025	Quarterly	1000m	0	1	109
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	18/08/2025	18/08/2025	Quarterly	1000m	0	0	1
Tanks (Points)	NSW Department of Customer Service - Spatial Services	18/08/2025	18/08/2025	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	18/08/2025	18/08/2025	Quarterly	1000m	0	0	5
State Forest	Forestry Corporation of NSW	18/12/2024	11/11/2024	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Geoscience Australia	22/04/2025	19/08/2019	Annually	1000m	1	1	1

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024	NSW Department of Climate Change, Energy, the Environment and Water	08/08/2025	28/06/2024	Quarterly	1000m	1	1	1
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	30/05/2025	04/03/2025	Annually	2000m	0	0	276
NSW Seamless Geology Single Layer: Rock Units	NSW Department of Primary Industries and Regional Development	19/05/2025	16/04/2024	Annually	1000m	1	2	3
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	4
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	2	2
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	2	6
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Housing and Infrastructure	31/07/2025	09/05/2025	Monthly	500m	1	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	15/01/2025	21/02/2013	Annually	1000m	1	2	2
Dryland Salinity - National Assessment	Australian Bureau of Agricultural and Resource Economics and Sciences	03/06/2025	15/04/2025	Annually	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service	18/08/2025	18/08/2025	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Primary Industries and Regional Development	08/08/2025	08/08/2025	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Primary Industries and Regional Development	08/08/2025	08/08/2025	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Primary Industries and Regional Development	08/08/2025	08/08/2025	Monthly	1000m	10	10	10
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Housing and Infrastructure	31/07/2025	08/09/2023	Monthly	1000m	0	2	4
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Housing and Infrastructure	31/07/2025	25/07/2025	Monthly	1000m	1	9	141
Commonwealth Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	23/10/2024	13/04/2022	Annually	500m	0	0	0
National Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	23/10/2024	13/04/2022	Annually	500m	0	0	1
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	18/08/2025	25/07/2025	Quarterly	500m	0	0	3
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Housing and Infrastructure	31/07/2025	25/07/2025	Monthly	500m	2	14	175
Bush Fire Prone Land	NSW Rural Fire Service	02/09/2025	14/05/2025	Monthly	1000m	0	0	0
NSW Native Vegetation Type Map	NSW Department of Climate Change, Energy, the Environment and Water	28/05/2025	04/10/2024	Quarterly	1000m	1	1	1
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	0
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	30/05/2025	07/05/2020	Annually	1000m	0	0	0
NSW BioNet Species Sightings	NSW Department of Climate Change, Energy, the Environment and Water	29/07/2025	29/07/2025	Monthly	10000m	-	-	-

Site Diagram

61 Marlborough Street, Surry Hills, NSW 2010



Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 3417m²

Total Perimeter: 300m

Disclaimers:

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

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

Scale: 0 15 30 Meters

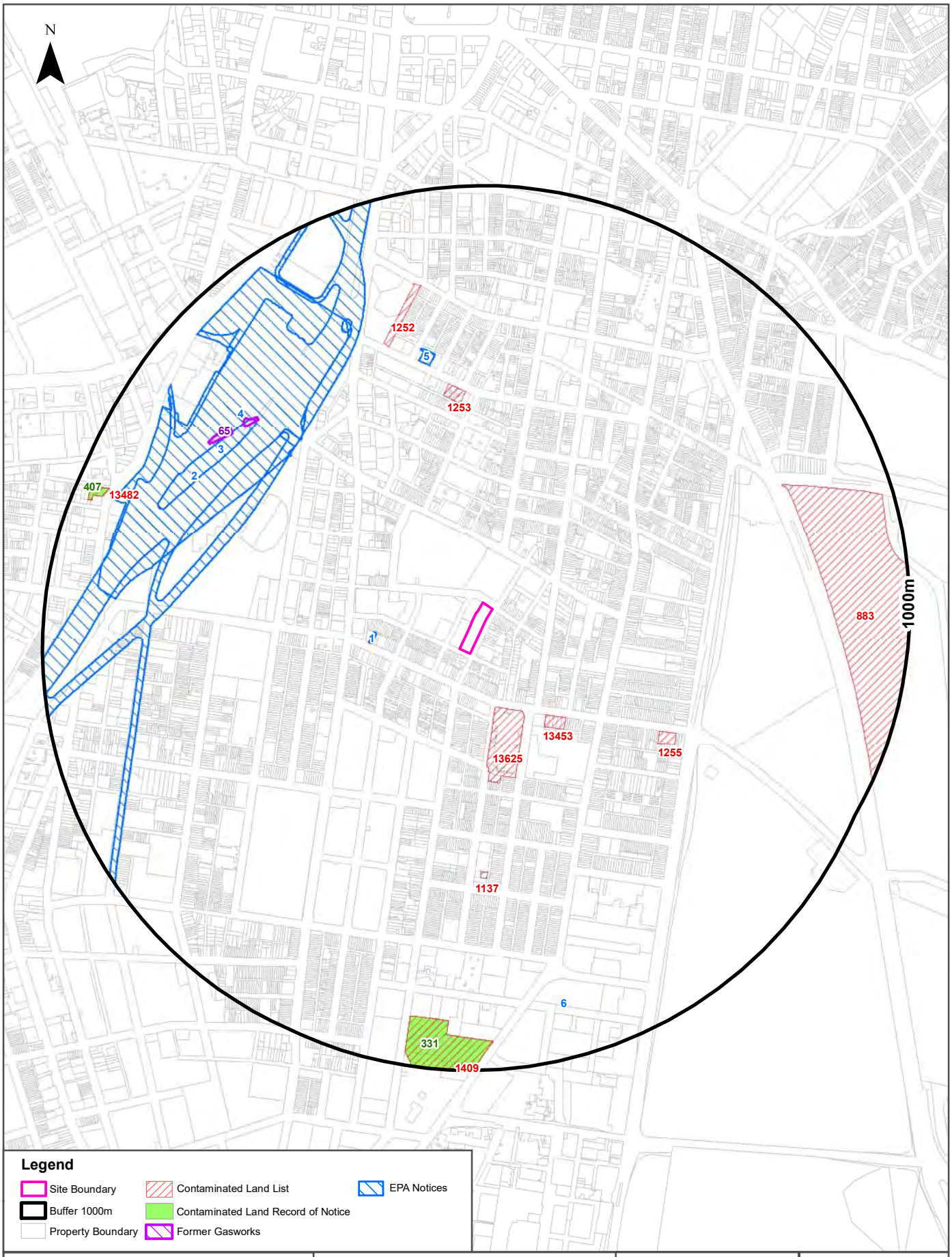
Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025

Coordinate System: GDA 1994 MGA Zone 56

Date: 05 September 2025

Contaminated Land

61 Marlborough Street, Surry Hills, NSW 2010



Contaminated Land

61 Marlborough Street, Surry Hills, NSW 2010

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
13625	Surry Hills Shopping Village	397-399 Cleveland & 2-38 Baptist STREET	REDFERN	Other Industry	Regulation under CLM Act not required	Current EPA List	Premise Match	141m	South
13453	BP-branded Jasbe Surry Hills	411 Cleveland STREET	Redfern	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	231m	South East
1253	Former Legion Cabs (Trading) Cooperative	81 & 81A (Formerly 69 - 81) Foveaux STREET	Surry Hills	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	483m	North
1255	Woolworths Petrol Surry Hills	475 Cleveland Street	Surry Hills	Service Station	Regulation under CLM Act not required	Current EPA List	Premise Match	487m	South East
1137	Former Printing Works	101a Marriott Street	Redfern	Other Industry	Regulation under CLM Act not required	Current EPA List	Premise Match	522m	South
1252	Ausgrid Road Reserve	Mary Street	Surry Hills	Other Industry	Regulation under CLM Act not required	Current EPA List	Premise Match	656m	North
883	Area 2, Moore Park	Driver Avenue	Moore Park	Unclassified	Regulation under CLM Act not required	Current EPA List	Premise Match	753m	East
1409	Lawrence Dry Cleaners	887-893 Bourke Street	Waterloo	Unclassified	Contamination currently regulated under CLM Act	Current EPA List	Premise Match	879m	South
13482	Cnr Regent Street & Wellington Street, Chippendale	Wellington STREET	CHIPPENDALE	Chemical Industry	Contamination currently regulated under CLM Act	Current EPA List	Premise Match	924m	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.

EPA site management class	Explanation
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
331	Lawrence Dry Cleaners	887-893 Bourke STREET	WATERLOO	12 current and 3 former	3377	Premise Match	879m	South
407	Cnr Regent Street & Wellington Street, Chippendale	Wellington Street	Chippendale	3 current and 7 former	3406	Premise Match	924m	West

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
65	Central Station (2 sites)	Council of the City of Sydney	Contact Council	Premise Match	696m	North West

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:

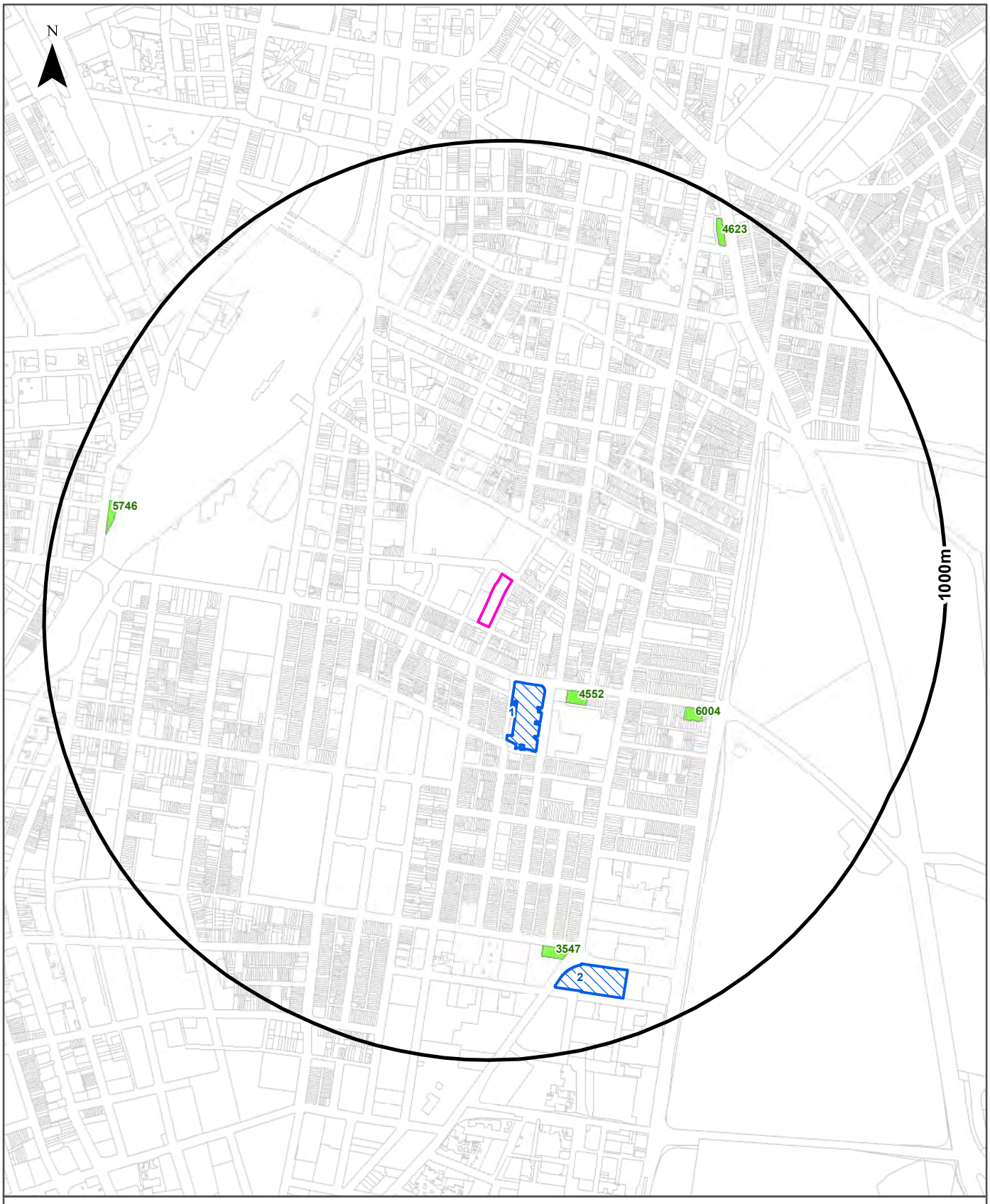
Map ID	Number	Type	Name	Address	Status	Issued Date	Act	Offence	Offence Date	Loc Conf	Dist	Dir
1	1121952	s.91 Clean Up Notice	MAI, TRONG MANH		Issued	30/11/2010				Premise Match	204m	West
2	3173529820	Penalty Notice	LAING O'ROURKE AUSTRALIA CONSTRUCTION PTY LTD	HAYMARKET, NSW 2000	Issued	10/12/2020	Protection of the Environment Operations Act 1997 - 64(1)	Contravene condition of licence - Corporation	19/03/2020	Premise Match	581m	North West
3	3085778300	Penalty Notice	JACKSON PHILLIPS	Central Station, HAYMARKET, NSW 2000	Issued	18/12/2015	Protection of the Environment Operations Act 1997 - 145(1)	Deposit litter (lit cigarette) excluding from vehicle - Individual	16/12/2015	Premise Match	581m	North West
4	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	582m	North West
5	3173523055	Penalty Notice	Powercor Network Services Pty Ltd	28 Foveaux Street, SURRY HILLS, NSW 2010	Issued	09/08/2017	Protection of the Environment Operations Act 1997 - 143(1)(a)	Transport etc asbestos waste to unlawful facility - other - Corporation	31/03/2016	Premise Match	585m	North
6	1514508	s.91 Clean Up Notice	DANKS STREET PLAZA DRYCLEANERS PTY. LTD.	9/1 Crystal Street, WATERLOO, NSW 2017	Issued	28/05/2013				Premise Match	861m	South

NSW EPA Notice Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Waste Management & Liquid Fuel Facilities

61 Marlborough Street, Surry Hills, NSW 2010



Legend

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

Scale:	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025	Coordinate System: GDA 1994 MGA Zone 56	Date: 05 September 2025

0 100 200 400 600 Meters

Waste Management & Liquid Fuel Facilities

61 Marlborough Street, Surry Hills, NSW 2010

National Waste Management Facilities Database

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

Map ID	Owner	Name	Address	Management Type	Facility Type	Status	Loc Conf	Dist	Dir
1	COLES	COLES SUPERMARKET	2-38 BAPTIST STREET, REDFERN	DROP-OFF	SOFT PLASTICS DROP-OFF FACILITY	OPERATIONAL	Premise Match	141m	South
2	COLES	COLES SUPERMARKET	24 DANKS STREET, WATERLOO	DROP-OFF	SOFT PLASTICS DROP-OFF FACILITY	OPERATIONAL	Premise Match	806m	South

Source: Waste Management Facilities Database

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National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

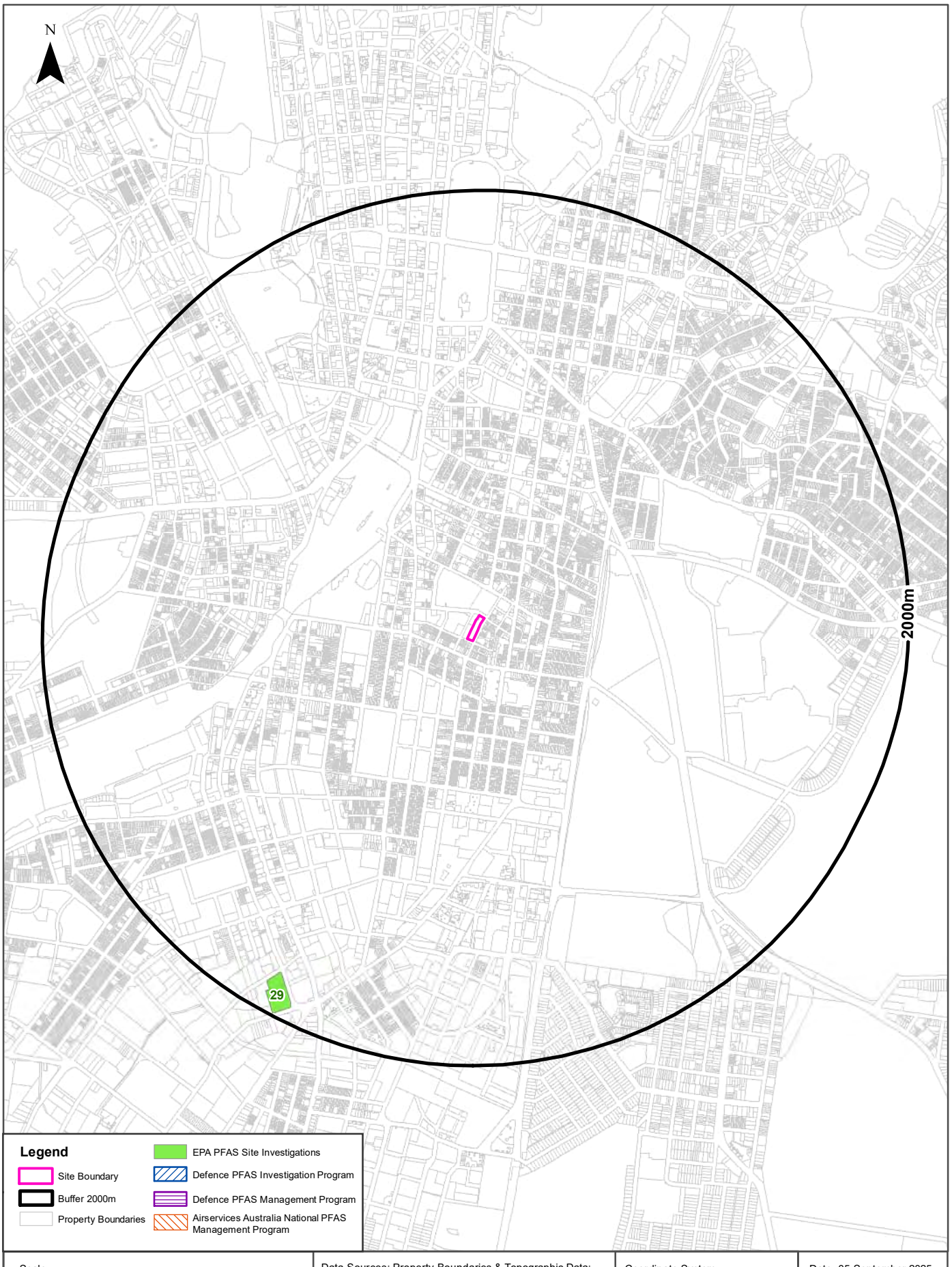
Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
4552	BP	BP REDFERN	411-417 CLEVELAND STREET	REDFERN	PETROL STATION	Operational		25/07/2011	Premise Match	231m	South East
6004	CALTEX WOOLWORTHS	CALTEX WOOLWORTHS REDFERN	475 CLEVELAND STREET	REDFERN	PETROL STATION	OPERATIONAL			Premise Match	487m	South East
3547	Independent Fuel Supplies	Mobil Waterloo	859-861 Bourke Street	Waterloo	Petrol Station	Operational		25/07/2011	Premise Match	744m	South
5746	BUDGET	BUDGET PETROL CHIPPENDALE	66-70 REGENT STREET	CHIPPENDALE	PETROL STATION	OPERATIONAL			Premise Match	872m	West
4623	Shell	Coles Express Darlinghurst	47 Flinders Street	Surry Hills	Petrol Station	Operational		25/07/2011	Premise Match	910m	North East

National Liquid Fuel Facilities Data Source: Geoscience Australia

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PFAS Investigation & Management Programs

61 Marlborough Street, Surry Hills, NSW 2010



PFAS Investigation & Management Programs

61 Marlborough Street, Surry Hills, NSW 2010

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
29	Alexandria Fire and Rescue NSW	189 Wyndham Street, Alexandria NSW 2015	Premise Match	1798m	South West

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

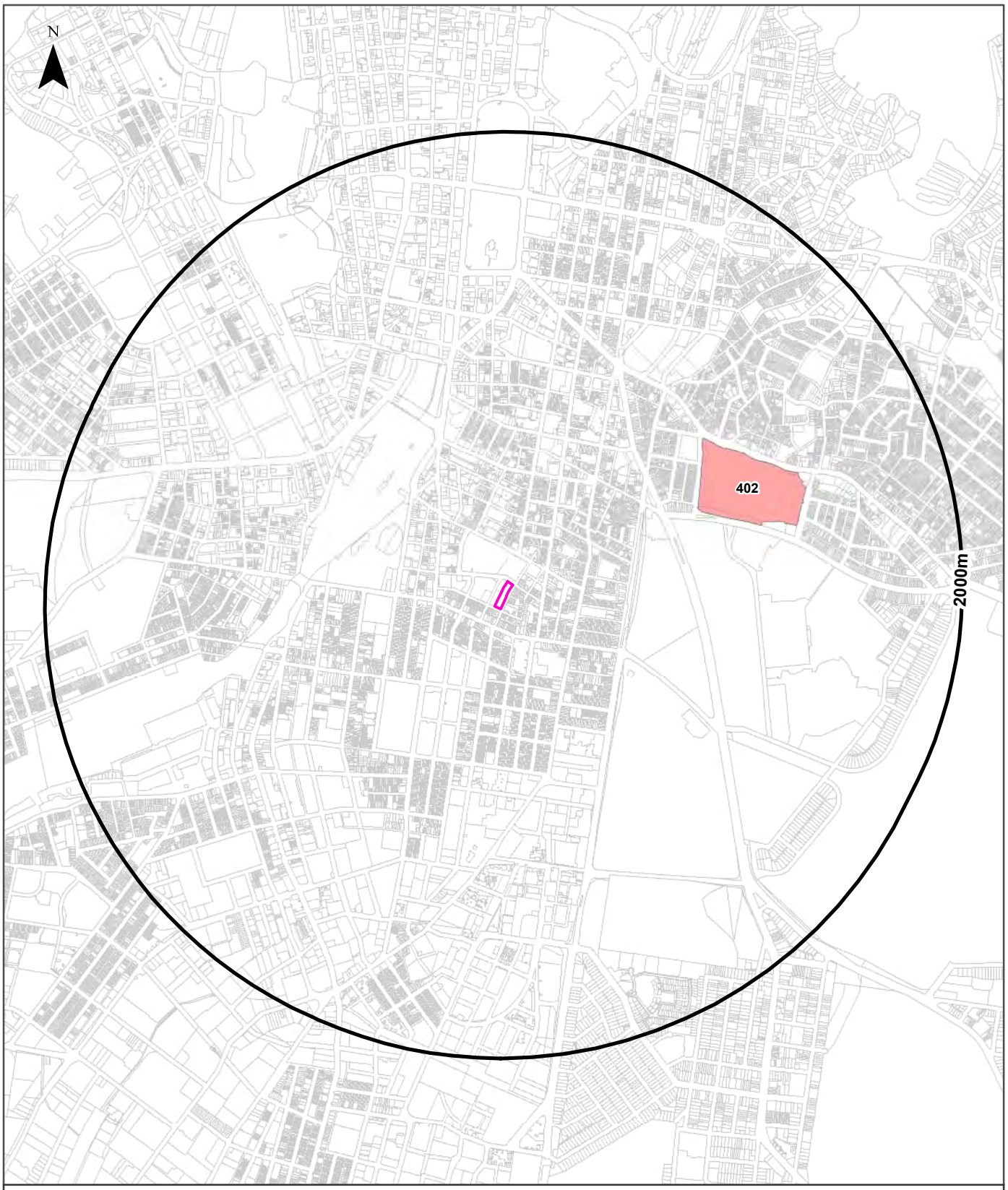
Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

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

61 Marlborough Street, Surry Hills, NSW 2010



Legend

- Site Boundary
- Buffer 2000m
- Property Boundaries

DCA

- Defence Controlled Area

Defence 3 Year RCIP

- Known Contamination
- No Known Contamination

UXO

- Substantial Potential
- Slight Potential
- Remote Potential
- Sea Dumping of Depth Charges
- Information
- Other
- Other Sea Dumping Sites

Scale:	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2025	Coordinate System: GDA 1994 MGA Zone 56	Date: 05 September 2025

0 200 400 800 1,200 Meters

Defence Sites and Unexploded Ordnance

61 Marlborough Street, Surry Hills, NSW 2010

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
402	Victoria Barracks - Paddington	Paddington, New South Wales	YES	Premise Match	890m	North East

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

61 Marlborough Street, Surry Hills, NSW 2010

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:

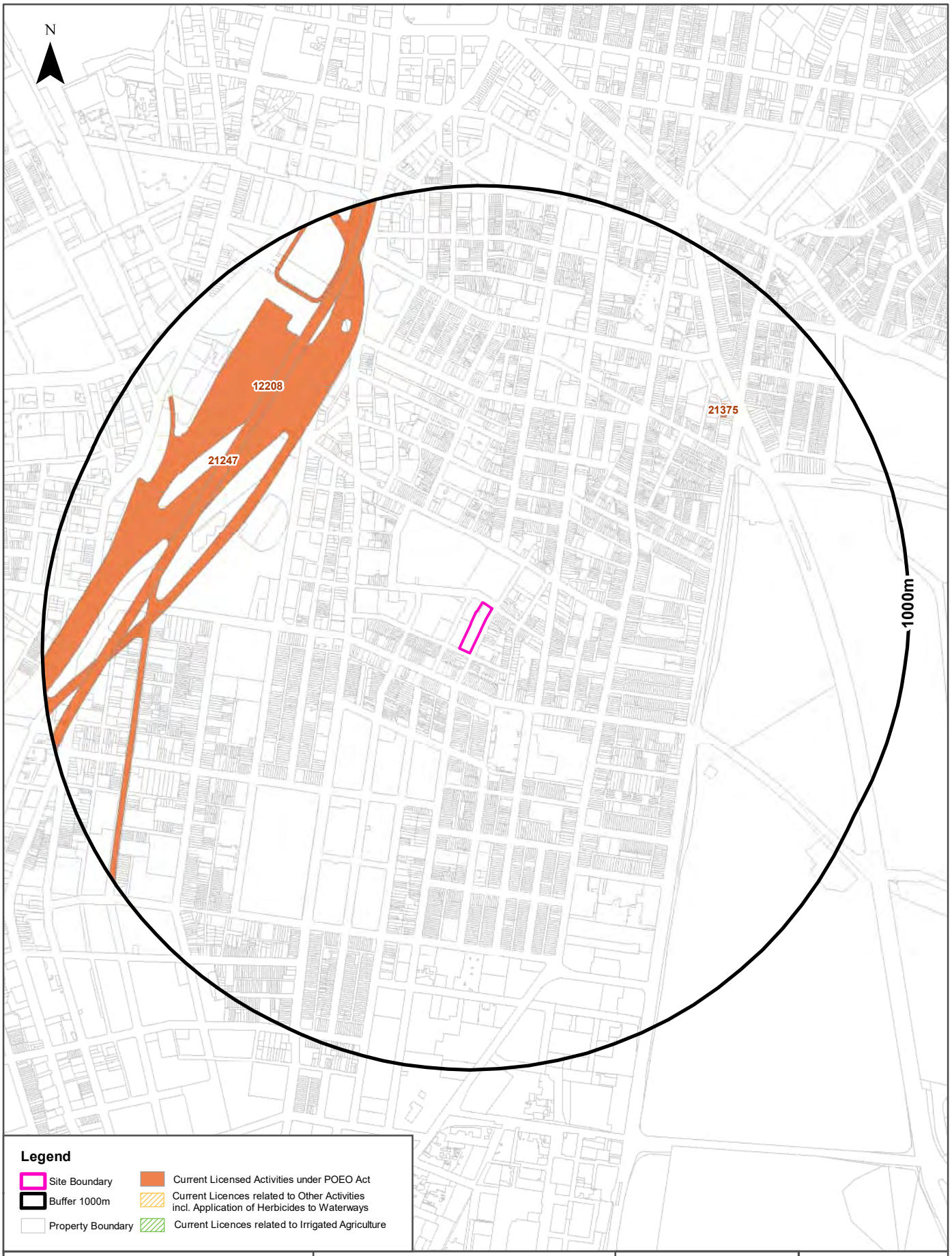
Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

EPA Other Sites with Contamination Issues: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Current EPA Licensed Activities

61 Marlborough Street, Surry Hills, NSW 2010



EPA Activities

61 Marlborough Street, Surry Hills, NSW 2010

Licensed Activities under the POEO Act 1997

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

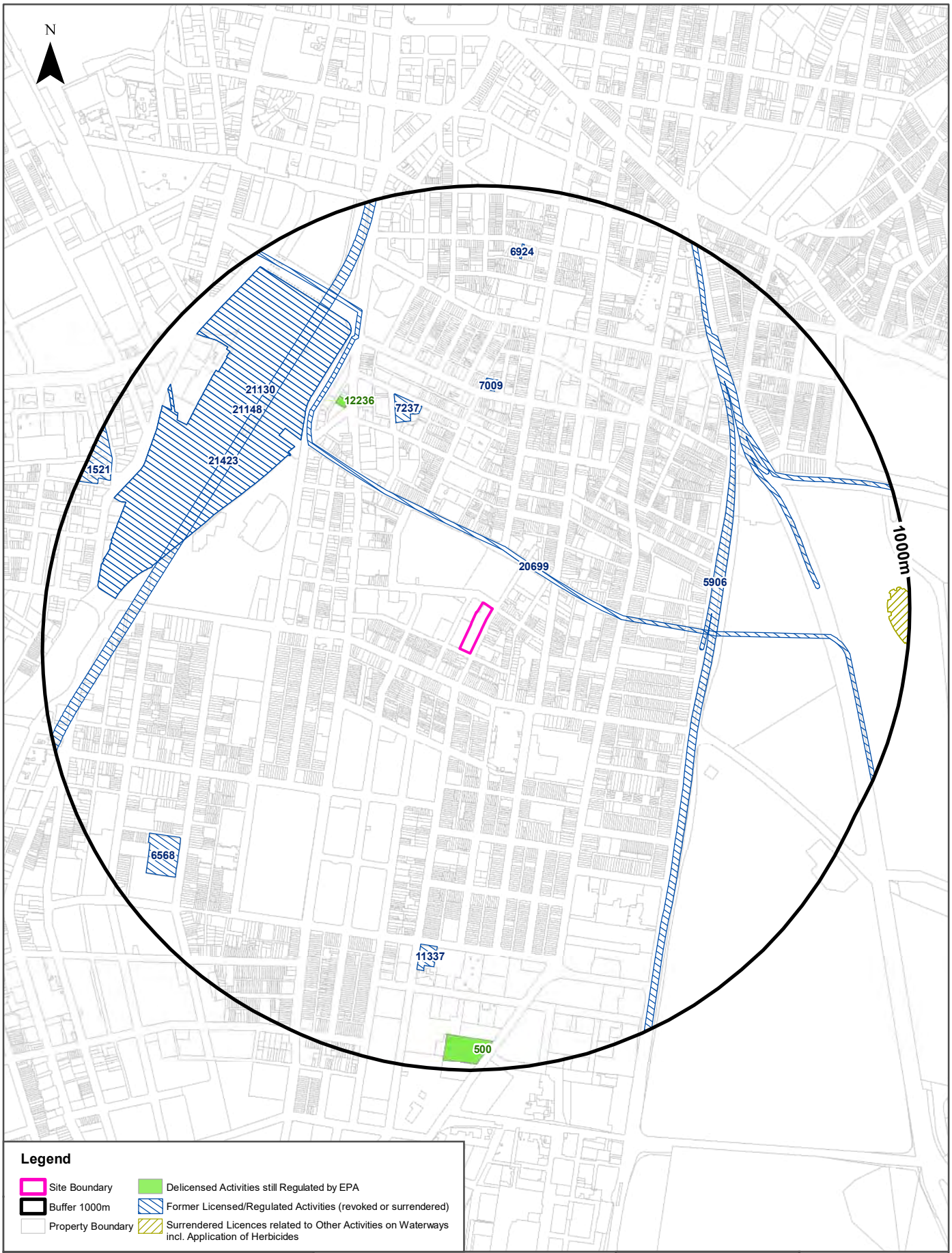
EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
12208	SYDNEY TRAINS		SYDNEY TRAINS, HAYMARKET, NSW 1238		Railway systems activities	Network of Features	582m	North West
21247	Metro Trains Sydney Pty Ltd		SYDNEY METRO, ROUSE HILL, NSW 2155		Railway systems activities	Network of Features	686m	North West
21375	AIRPORT MOTORWAY LIMITED		43 BOURKE STREET, WOOLLOOMOOLOO, NSW 2011		Road tunnel emissions	Premise Match	716m	North East

POEO Licence Data Source: Environment Protection Authority

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Delicensed & Former Licensed EPA Activities

61 Marlborough Street, Surry Hills, NSW 2010



EPA Activities

61 Marlborough Street, Surry Hills, NSW 2010

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
12236	THE PRETERM FOUNDATION	The Preterm Foundation	1-5 Randle Street	SURRY HILLS	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	575m	North West
500	LAWRENCE DRY CLEANERS PTY LTD	LAWRENCE DRY CLEANERS	887 BOURKE STREET	WATERLOO	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	914m	South

Delicensed Activities Data Source: Environment Protection Authority

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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
20699	ACCIONA INFRASTRUCTURE AUSTRALIA PTY LTD	CBD and South East Light Rail, CBD and South East Light Rail Alignment and Ancillary Sites, SYDNEY	Surrendered	08/04/2016	Land-based extractive activity	Network of Features	130m	North East
7237	NATIONWIDE NEWS PTY. LIMITED	2 HOLT STREET, SURRY HILLS, NSW 2010	Surrendered	20/09/2000	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	469m	North
5906	CPB CONTRACTORS PTY LIMITED	EASTERN DISTRIBUTOR PROJECT, FROM CAHILL EXPRESSWAY, WOOLLOOMOOLOO TO LINK ROAD,, KENSINGTON	Surrendered	30/03/2000	Road construction	Road Match	505m	East
7009	PALLOYS PTY LTD	74-84 FOVEAUX STREET, SURRY HILLS, NSW 2010	Surrendered	26/06/2000	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	508m	North
21130	DOWNER EDI WORKS PTY LTD	, Parts of Lot 118 DP1078271 and Lot 103 DP1188890, SYDNEY, NSW 2000,	Surrendered	10/10/2018	Railway systems activities	Premise Match	581m	North West
21148	Laing O'Rourke Australia Construction Pty Ltd	HAYMARKET, NSW 2000,	Surrendered	28/11/2018	Railway systems activities	Premise Match	581m	North West
21423	CPB CONTRACTORS PTY LIMITED	BETWEEN CHATSWOOD DIVE SITE AND SYDENHAM DIVE SITE, SYDNEY, NSW 2000,	Surrendered	31/07/2020	Railway infrastructure construction (<50,000T)	Network of Features	686m	North West
11337	DAVID GRAPHICS PTY LIMITED	165 Phillip Street, WATERLOO, NSW 2017	Surrendered	31/01/2001	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	707m	South
6568	SYDNEY SOUTH WEST AREA HEALTH SERVICE	150 PITT ST, REDFERN, NSW 2016	Surrendered	04/08/2000	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	809m	South West
6924	METROPOLITAN ELECTROPLATERS PTY LTD	123 RESERVOIR ROAD, SURRY HILLS, NSW 2010	Surrendered	26/06/2000	Metal coating; Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	830m	North
1521	CARLTON & UNITED BREWERIES (N S W) PTY LTD	26-98 BROADWAY, SYDNEY, NSW 2000	Surrendered	24/03/2000	Brewing and distilling, Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	929m	North West
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	946m	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	946m	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	946m	East

Former Licensed Activities Data Source: Environment Protection Authority

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Historical Business Directories

61 Marlborough Street, Surry Hills, NSW 2010



Legend

- Site Boundary
- Buffer 100m
- 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 20 40 60 80 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 05 September 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

61 Marlborough Street, Surry Hills, NSW 2010

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	CLOTHING - INDUSTRIAL &PROTECTIVE MFRS. &/OR W/SALERS. (C5168)	Australian Uniform Co., 61 Marlborough St., Surry Hills. 2010.	16772	1982	Premise Match	0m	On-site
	CLOTHING - UNIFORMS & SMOCKS MFRS. &/OR W/SALERS. (C5705)	Australian Uniform Co., 61 Marlborough St., Surry Hills. 2010.	17182	1982	Premise Match	0m	On-site
	CLOTHING - GENERAL MFRS.&/OR W/SALERS. (C5167)	Marlborough Productions Pty. Ltd., 59 Marlborough St., Surry Hills 2010	16730	1982	Premise Match	0m	On-site
	CLOTHING-GENERAL MFRS. &/OR W/SALERS	Marlborough Productions Pty. Ltd., 59 Marlborough St., Surry Hills. 2010	14948	1978	Premise Match	0m	On-site
	CLOTHING - GENERAL MFRS. &/OR W/SALERS	Jones, D. Ltd., 59 Marlborough St., Surry Hills. 2010	17226	1975	Premise Match	0m	On-site
	CHEMISTS MFRG. &/OR W/SALERS.	Jones, D. Ltd., 59 Marlborough St., Surry Hills. 2010.	14818	1975	Premise Match	0m	On-site
	CLOTHING - GENERAL MFRS. &/OR W/SALERS	Marlborough Products Pty. Ltd., 59 Marlborough St., Surry Hills. 2010	17237	1975	Premise Match	0m	On-site
	CONFECTIONERY MFRS. SUPPLIES.	Montrose (Aust.) Pty. Ltd., 59 Marlborough St., Surry Hills. 2010	18692	1975	Premise Match	0m	On-site
	HOSIERY MFRS. &/OR W/SALERS	Montrose (Aust.) Pty. Ltd., 59 Marlborough St., Surry Hills. 2010	42442	1975	Premise Match	0m	On-site
	JAM MFRS.	Montrose (Aust.) Pty. Ltd., 59 Marlborough St., Surry Hills. 2010	45562	1975	Premise Match	0m	On-site
	REFRIGERATOR-DOMESTIC-MFRS. &/OR DISTS.	Montrose (Aust.) Pty. Ltd., 59 Marlborough St., Surry Hills. 2010	73403	1975	Premise Match	0m	On-site
	WASHING MACHINE MFRS. &/OR DISTS.	Montrose (Aust.) Pty. Ltd., 59 Marlborough St., Surry Hills. 2010	86531	1975	Premise Match	0m	On-site
	WATER COOLING EQUIPMENT MFRS.	Montrose (Aust.) Pty. Ltd., 59 Marlborough St., Surry Hills. 2010	86617	1975	Premise Match	0m	On-site
	CANNERS &/OR CANNED FOOD SPECIALISTS.	Montrose (Aust.) Pty. Ltd., 59 Marlborough St., Surry Hills. 2010.	12967	1975	Premise Match	0m	On-site
	ELECTRICAL SUPPLIES &/OR APPLIANCES-W/SALE	Montrose (Aust.) Pty. Ltd., 59 Marlborough St., Surry Hills. 2010.	26613	1975	Premise Match	0m	On-site
	GLOVE MFRS. -FASHION.	Montrose (Aust.) Pty. Ltd., 59 Marlborough St., Surry Hills. 2010.	38646	1975	Premise Match	0m	On-site
	MANUFACTURERS AGENTS.	Montrose (Aust.) Pty. Ltd., 59 Marlborough St., Surry Hills. 2010.	48893	1975	Premise Match	0m	On-site
	CHEMISTS-MANUFACTURING &/OR WHOLESALE	Jones, D. Ltd., Marlborough St., Surry Hills	279882	1970	Premise Match	0m	On-site
	CLOTHING MFRS. &/OR W'SALERS-GENERAL (C438)	Jones, David Ltd., Marlborough St., Surry Hills	282465	1970	Premise Match	0m	On-site
	CLOTHING MFRS. &/OR W'SALERS-GENERAL (C438)	Marlborough Products Pty. Ltd., 59 Marlborough St., Surry Hills	282479	1970	Premise Match	0m	On-site
	JAM MANUFACTURERS (J010)	Montrose (Aust.) Ltd., 59 Marlborough St., Surry Hills	320885	1970	Premise Match	0m	On-site
	HOSIERY IMPORTERS &/OR WHOLESALERS (H560)	Montrose (Aust.) Pty. Ltd., 59 Marlborough St., Surry Hills	316701	1970	Premise Match	0m	On-site
	Chemists - Manufacturing &/or Wholesale	Jones, D. Ltd., Marlborough St., Surry Hills	64545	1965	Premise Match	0m	On-site
	Clothing Mfrs. &/or W'salers - General	Jones, David Ltd., Marlborough St., Surry Hills	67089	1965	Premise Match	0m	On-site
	Clothing Mfrs. &/or W'salers - General	Marlborough Products Pty. Ltd., 59 Marlborough St., Surry Hills	67108	1965	Premise Match	0m	On-site

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	CLOTHING MFRS. &/OR W'SALERS-GENERAL	Jones, David Ltd., Marlborough St., Surry Hills	289485	1961	Premise Match	0m	On-site
2	TOILET PREPARATION MFRS. &/OR W/SALERS	Elizabeth Arden Pty. Ltd, 508 Riley St, Surry Hills.2010	71138	1978	Premise Match	0m	West
	COSMETIC MFRS. &/OR W/SALERS.	Elizabeth Arden Pty. Ltd., 508 Riley St., Surry Hills. 2010	16473	1978	Premise Match	0m	West
	COSMETIC MFRS. &/OR W/SALERS.	Elizabeth Arden Pty. Ltd., 508 Riley St., Surry Hills. 2010	19074	1975	Premise Match	0m	West
	TOILET PREPARATION MFRS. &/OR W/SALERS	Elizabeth Arden Pty. Ltd., 508 Riley St., Surry Hills. 2010	83719	1975	Premise Match	0m	West
	TOILET PREPARATIONS MFRS.(T450)	Elizabeth Arden Pty. Ltd., 508 Riley St., Surry Hills, 2107	369382	1970	Premise Match	0m	West
	COSMETIC MFRS. &/OR W'SALERS (C692)	Elizabeth Arden Pty. Ltd., 508-528 Riley St., Surry Hills	286000	1970	Premise Match	0m	West
	TOILET PREPARATIONS MFRS.	Arden, Elizabeth Pty. Ltd., 508-528 Riley St., Surry Hills	152287	1965	Premise Match	0m	West
	Cosmetic Mfrs. &/or W'salers	Elizabeth Arden Pty. Ltd., 508-528 Riley St., Surry Hills	70714	1965	Premise Match	0m	West
	COSMETIC MFRS. &/OR W'SALERS	Warner, Lambert Pty. Ltd., 508 Riley St.	293375	1961	Premise Match	0m	West
	CHEMISTS-MANUFACTURING & WHOLESALE	Chamberlains Pty. Ltd., 508 Riley St., Surry Hills	70444	1950	Premise Match	0m	West
	CHEMISTS-MANUFACTURING & WHOLESALE	Warner, W. R. and Co. Pty. Ltd., 508 Riley St., Surry Hills	70648	1950	Premise Match	0m	West
	TOILET PREPARATIONS MANUFACTURERS	Warner, W. R. and Co. Pty. Ltd., 520 Riley St., Surry Hills	108977	1950	Premise Match	0m	West
3	UPHOLSTERERS	Minter, M. G., 54 Marlborough St., Surry Hills	111239	1950	Premise Match	12m	East
4	CARRIERS & CARTAGE CONTRACTORS	Rice, R. A., 90 Marlborough St., Surry Hills	19651	1950	Premise Match	25m	South
5	MONUMENTAL MASONS	Bennett, W., 92 Marlborough St.	81381	1950	Premise Match	30m	South
6	MARBLE &/OR GRANITE MERCHANTS	Bennett, R., 94 Marlborough St., Surry Hills. 2010	52757	1986	Premise Match	34m	South
	MONUMENTAL MASONS.	Bennett, R., 94 Marlborough St., Surry Hills. 2010	60510	1986	Premise Match	34m	South
	MARBLE &/OR GRANITE MERCHANTS. (M0920)	Bennett, R., 94 Marlborough St., Surry Hills. 2010.	46439	1982	Premise Match	34m	South
	MONUMENTAL MASONS. (M4460)	Bennett, R., 94 Marlborough St., Surry Hills. 2010.	53571	1982	Premise Match	34m	South
	MARBLE &/OR GRANITE MERCHANTS	Bennett, R., 94 Marlborough St., Surry Hills. 2010	41551	1978	Premise Match	34m	South
	MONUMENTAL MASONS.	Bennett, R., 94 Marlborough St., Surry Hills. 2010	47152	1978	Premise Match	34m	South
	MARBLE &/OR GRANITE MERCHANTS	Bennett, R., 94 Marlborough St., Surry Hills. 2010.	49099	1975	Premise Match	34m	South
	MONUMENTAL MASONS.	Bennett, R., 94 Marlborough St., Surry Hills. 2010	55929	1975	Premise Match	34m	South
	MARBLE/GRANITE MERCH. (M120)	Bennett, R., 94 Marlborough St., Surry Hills	325460	1970	Premise Match	34m	South
	MONUMENTAL MASONS (M428)	Bennett, R., 94 Marlborough St., Surry Hills	334308	1970	Premise Match	34m	South
	Marble/Granite Merch.	Bennett, R., 94 Marlborough St., Surry Hills	110151	1965	Premise Match	34m	South
	Monumental Masons	Bennett, R., 94 Marlborough St., Surry Hills	119147	1965	Premise Match	34m	South
	MARBLE/GRANITE MERCH.	Bennett, R., 94 Marlborough St., Surry Hills	334029	1961	Premise Match	34m	South
	MONUMENTAL MASONS	Bennett, R., 94 Marlborough St., Surry Hills	343232	1961	Premise Match	34m	South
7	MOTOR BRAKE SERVICES.	Auto Service Centre, The, 535 Riley St., Surry Hills. 2010	47919	1978	Premise Match	40m	North West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Auto Service Centre, The, 535 Riley St., Surry Hills. 2010	49327	1978	Premise Match	40m	North West
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Larke Hoskins & Co. Ltd., 535 Riley St. SURRY HILLS	341269	1970	Premise Match	40m	North West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
7	MOTOR ACCESS.-ELECTRIC (M452)	Larke Hoskins Pty. Ltd., 535 Riley St., Surry Hills	334495	1970	Premise Match	40m	North West
	MOTOR ACCESSORIES/DEALERS (M448)	Larke Hoskins Pty. Ltd., 535 Riley St., Surry Hills	334723	1970	Premise Match	40m	North West
	MOTOR BRAKE SERVICES (M512)	Larke Hoskins Pty. Ltd., 535 Riley St., Surry Hills	335535	1970	Premise Match	40m	North West
	MOTOR ELECTRICIANS (M620)	Larke Hoskins Pty. Ltd., 535 Riley St., Surry Hills	336899	1970	Premise Match	40m	North West
	MOTOR ENGINE RECONDITIONERS(M624)	Larke Hoskins Pty. Ltd., 535 Riley St., Surry Hills	337030	1970	Premise Match	40m	North West
	MOTOR PAINTERS (M672)	Larke Hoskins Pty. Ltd., 535 Riley St., Surry Hills	339433	1970	Premise Match	40m	North West
	MOTOR PANEL BEATERS (M680)	Larke Hoskins Pty. Ltd., 535 Riley St., Surry Hills	340190	1970	Premise Match	40m	North West
	MOTOR CARBURETTOR/TUNING SPECIALISTS (M564)	Larke Hoskins Pty. Ltd., 535 Riley St., Surry Hills,	336437	1970	Premise Match	40m	North West
	MOTOR GARAGES & ENGINEERS(M656)	Larke Hoskins Pty. Ltd., 535-553 Riley St. SURRY HILLS	338147	1970	Premise Match	40m	North West
	MOTOR RADIATOR SPECIALISTS &/OR REPAIRERS (M700)	Larke Hoskins Service Pty. Ltd., 535-553 Riley St., Surry Hills	340686	1970	Premise Match	40m	North West
	MOTOR SPARE PARTS DEALERS-RETAIL (M728)	Larke, Hoskins Pty. Ltd., 535 Riley St., Surry Hills	341906	1970	Premise Match	40m	North West
	MOTOR SPARE PARTS MFRS. &/OR WHOLESALERS (M732)	Larke, Hoskins Pty. Ltd., 535 Riley St., Surry Hills	342229	1970	Premise Match	40m	North West
	MOTOR TRIMMERS (M748)	Larke, Hoskins Pty. Ltd., 535 Riley St., Surry Hills	342649	1970	Premise Match	40m	North West
	Motor Service Stations - Petrol, Oil, Etc.	Larke Hoskins & Co. Ltd., 535 Riley St. Surry Hills	126188	1965	Premise Match	40m	North West
	Motor Garages & Engineers	Larke Hoskins Pty. Ltd., 535-553 Riley St. Surry Hills	123435	1965	Premise Match	40m	North West
	Motor Car/Truck Dealers - New/Used	Larke Hoskins Pty. Ltd., 535-553 Riley St., Surry Hills	120745	1965	Premise Match	40m	North West
	Motor Electricians	Larke Hoskins Pty. Ltd., 535-553 Riley St., Surry Hills	121765	1965	Premise Match	40m	North West
	Motor Engine Reconditioners	Larke Hoskins Pty. Ltd., 535-553 Riley St., Surry Hills	121910	1965	Premise Match	40m	North West
	Motor Painters	Larke Hoskins Pty. Ltd., 535-553 Riley St., Surry Hills	124030	1965	Premise Match	40m	North West
	Motor Spare Parts Dealers - Retail	Larke Hoskins Pty. Ltd., 535-553 Riley St., Surry Hills	126530	1965	Premise Match	40m	North West
	Motor Spare Parts Mfrs. &/or Wholesalers	Larke Hoskins Pty. Ltd., 535-553 Riley St., Surry Hills	126787	1965	Premise Match	40m	North West
	Motor Trimmers	Larke Hoskins Pty. Ltd., 535-553 Riley St., Surry Hills	127242	1965	Premise Match	40m	North West
	Motor Radiator Specialists &/or Repairers	Larke Hoskins Service Pty. Ltd., 535-553 Riley St., Surry Hills	125274	1965	Premise Match	40m	North West
	Motor Carburettor/Tuning Specialists	Larke, Hoskins & Co. Ltd., 535 Riley St., Surry Hills	121256	1965	Premise Match	40m	North West
	Motor Panel Beaters	Larke-Hoskins Pty. Ltd., 535-553 Riley St., Surry Hills	124786	1965	Premise Match	40m	North West
	MOTOR RADIATOR SPECIALISTS &/OR REPAIRERS	Larke Hoskins Service Pty. Ltd., 62-110 Wilton St., Surry Hills	350211	1961	Premise Match	40m	North West
8	CHEMISTS-PHARMACEUTICAL	Cleveland Pharmacy, 380 Cleveland St., Surry Hills. 2010	14090	1986	Premise Match	44m	South
	CHEMISTS - PHARMACEUTICAL (C4110)	Cleveland Pharmacy, 380 Cleveland St., Surry Hills. 2010.	14893	1982	Premise Match	44m	South
	CHEMISTS-PHARMACEUTICAL	Cleveland Pharmacy, 380 Cleveland St., Surry Hills. 2010	13074	1978	Premise Match	44m	South
	CHEMISTS-PHARMACEUTICAL	Cleveland Pharmacy, 380 Cleveland St., Surry Hills. 2010.	15109	1975	Premise Match	44m	South
	CHEMISTS-PHARMACEUTICAL	Cleveland Pharmacy., 380 Cleveland St., Surry Hills	280202	1970	Premise Match	44m	South

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
8	Chemists - Pharmaceutical	Cleveland Pharmacy, 380 Cleveland St., Surry Hills	64850	1965	Premise Match	44m	South
	CHEMISTS-PHARMACEUTICAL	Cleveland Pharmacy, 380 Cleveland St., Surry Hills	287435	1961	Premise Match	44m	South
	CHEMISTS-PHARMACEUTICAL	Cleveland Pharmacy, 380 Cleveland St., Surry Hills	21398	1950	Premise Match	44m	South
9	SECONDHAND DEALERS	Dean, E. (Books), 368 Cleveland St., Surry Hills	101130	1950	Premise Match	44m	South West
10	CYCLE DEALERS & ACCESSORIES	Bamba Sports Cycles, 358 Cleveland St.	29833	1950	Premise Match	47m	South West
	CYCLE MANUFACTURERS	Bamba Sports Cycles, 358 Cleveland St.	30042	1950	Premise Match	47m	South West
	CYCLE HIRERS	Bamba Sports, 358 Cleveland St.	30038	1950	Premise Match	47m	South West
	CYCLE ACCESSORIES-MANUFACTURERS &/OR WHOLESALERS	Gazelle Products (Leather), 358 Cleveland St.	29799	1950	Premise Match	47m	South West
11	RADIO SALES &/OR SERVICEMEN	Daniels, L., 42 Lansdowne St., Surry Hills	97116	1950	Premise Match	54m	East
12	MERCHANTS/IMPORTERS	Pioneer Packing Mfg. Co., 44 Belvoir St., Surry Hills	337654	1961	Premise Match	59m	North
	MOTOR PANEL BEATERS	Allan, J., 171 Devonshire St., Surry Hills	85132	1950	Premise Match	59m	North
	SHEET METAL WORKERS	Allan, J., 171 Devonshire St., Surry Hills	101633	1950	Premise Match	59m	North
	BUTTON & BUCKLE MFRS. &/OR WHOLESALERS	Australian Buttons and Buckles Pty. Ltd., 40 Dawson St., Surry Hills	70671	1950	Premise Match	59m	North
	CLEANSER & CLEANING PREPARATIONS MFRS. &/OR DISTRIBUTORS	Cleansall Products Co., Wilton Pl., Surry Hills	23013	1950	Premise Match	59m	North
	CHEMICAL MANUFACTURERS	Cleansall Products Pty. Ltd., Wilton Pl., Strawberry Hills	21013	1950	Premise Match	59m	North
	ANTISEPTIC MANUFACTURERS	Cleansall Products Pty. Ltd., Wilton Pl., Surry Hills	1915	1950	Premise Match	59m	North
	DISINFECTANT MANUFACTURERS & SUPPLIERS	Cleansall Products Pty. Ltd., Wilton Pl., Surry Hills	32932	1950	Premise Match	59m	North
	FLOOR SANDING &/OR POLISHING CONTRACTORS	Cleansall Products Pty. Ltd., Wilton Pl., Surry Hills	45623	1950	Premise Match	59m	North
	POLISH MANUFACTURERS &/OR DISTRIBUTORS	Cleansall Products Pty. Ltd., Wilton Pl., Surry Hills	93516	1950	Premise Match	59m	North
	SOAP MANUFACTURERS	Cleansall Products Pty. Ltd., Wilton Pl., Surry Hills	103090	1950	Premise Match	59m	North
	PAINT, VARNISH & STAIN MANUFACTURERS	Colorchrome (N.S.W.) Pty. Ltd., 16 Clisdell St., Surry Hills	90624	1950	Premise Match	59m	North
	FILM LABORATORIES & PROCESSORS	Commonwealth Film Laboratories Pty. Ltd., 60 Wilton St., Surry Hills	43875	1950	Premise Match	59m	North
	FILM PRODUCERS	Commonwealth Film Labs. Ltd., Wilton St., Surry Hills	43897	1950	Premise Match	59m	North
	ELECTRICAL CONTRACTORS &/OR ELECTRICIANS	Electrical Appliances Sales Installation Pty. Ltd., 32 Clisdell St., Surry Hills	37498	1950	Premise Match	59m	North
	COOL ROOM BUILDERS	Glanfield, V., 2 Beaufort St., Surry Hills	28930	1950	Premise Match	59m	North
	FURNITURE REMOVALISTS &/OR STORAGE	Jamieson, Reg C., 167 Devonshire St.	53227	1950	Premise Match	59m	North
	CARRIERS & CARTAGE CONTRACTORS	Jamieson, Reg. C., 167 Devonshire St.	19096	1950	Premise Match	59m	North
	UPHOLSTERERS	Major Furnishings, 32 Clisdell St., Surry Hills	111224	1950	Premise Match	59m	North
	FOOD PRODUCTS MANUFACTURERS	Pioneer Packing and Mfg. Co., 44 Belvoir St, Surry Hills	46628	1950	Premise Match	59m	North
	MERCHANTS & IMPORTERS	Pioneer Packing Mfg. Co., 44 Belvoir St., Surry Hills	75498	1950	Premise Match	59m	North
	PACKAGING & PACKING SPECIALISTS	Pioneer Packing Mnfg. Co., 44 Belvoir St., Surry Hills	90542	1950	Premise Match	59m	North
	PATTERNMAKERS-ENGINEERING	Pomgdestre, H. D., 44-46 Dawson St., Surry Hills	91287	1950	Premise Match	59m	North

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
12	DEMOLITION CONTRACTORS	Rushmer, R. F. L., 181 Devonshire St	31455	1950	Premise Match	59m	North
	BUILDING DEMOLISHERS	Rushmere, R. F. L., 181 Devonshire St.	11962	1950	Premise Match	59m	North
	HAULAGE CONTRACTORS-HEAVY	Sydney Wollongong Transport Co. Pty. LTD., 191 Devonshire St	61907	1950	Premise Match	59m	North
	HAULAGE CONTRACTORS-HEAVY	Sydney Wollongong Transport Co. Pty. LTD., 191 Devonshire St.	61906	1950	Premise Match	59m	North
	FURNITURE REMOVALISTS &/OR STORAGE	SYDNEY WOLLONGONG TRANSPORT CO. PTY. LTD., 191 Devonshire St.,	53310	1950	Premise Match	59m	North
	FURNITURE REMOVALISTS &/OR STORAGE	SYDNEY WOLLONGONG TRANSPORT CO. PTY. LTD., 191 Devonshire St.,	53309	1950	Premise Match	59m	North
	CARRIERS & CARTAGE CONTRACTORS-MASTER	Sydney-Wollongong Transport Co. Pty. Ltd., 191 Devonshire St.	20406	1950	Premise Match	59m	North
	FURNITURE REMOVALISTS &/OR STORAGE	Sydney-Wollongong Transport Co. Pty. Ltd., 191 Devonshire St.	53311	1950	Premise Match	59m	North
	CARRIERS & CARTAGE CONTRACTORS (MASTER)	Williams, W. H. and Co., 191 Devonshire St., Surry Hills	20354	1950	Premise Match	59m	North
13	SCHOOLS/COLLEGES-PRIVATE/PUBLIC	St. Peter's Girls' & Infants' School, Devonshire St., Sry Hills	248450	1961	Premise Match	81m	North East
14	TILE-FLOOR &/OR WALL IMPS. &/OR MFRS. &/OR DISTS	Best Tiling Pty. Ltd, 525 Crown St, Surry Hills.2010	70663	1978	Premise Match	90m	East
	TILE.,FLOOR &/OR WALL IMPS. &/OR MFRS. &/OR DISTS.	Best Tiling Pty. Ltd., 525 Crown St., Surry Hills. 2010	83171	1975	Premise Match	90m	East
	FOOD IMPORTERS (F405)	Martin Bros.Importers Pty. Ltd., 525 Crown St., Surry Hills	304851	1970	Premise Match	90m	East
	Engineers' Supplies	White, L. Pty. Ltd., 525 Crown St., Surry Hills	84599	1965	Premise Match	90m	East
	ENGINEERS' SUPPLIES	White, L. Pty. Ltd., 525 Crown St., Surry Hills	304559	1961	Premise Match	90m	East
15	Motor Panel Beaters &/or Spray Painters	Allan's Body Works Pty. Ltd., 2 Young St, Redfern 2016	54124	1991	Premise Match	93m	South West
	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS	Allan's Body Works Pty. Ltd., 2 Young St., Redfern. 2016	66019	1986	Premise Match	93m	South West
	MOTOR TOWING SERVICES.	Allan's Body Works Pty. Ltd., 2 Young St., Redfern. 2016	67874	1986	Premise Match	93m	South West
	MUSICAL INSTRUMENT DEALERS	Music 351, 347 Cleveland St., Redfern. 2016	68978	1986	Premise Match	93m	South West
	DRY CLEANERS & PRESSERS.(D8500)	Colpan Bros., 347 Cleveland St., Redfern. 2016.	23796	1982	Premise Match	93m	South West
	MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. (M7360)	Olympic Smash Repairs, 2 Young St., Redfern. 2016.	58579	1982	Premise Match	93m	South West
	MOTOR PANEL BEATERS	Olympic Smash Repairs, 2 Young St., Redfern. 2016.	52250	1978	Premise Match	93m	South West
	MOTOR PANEL BEATERS.	Hellenic Motors., 2 Young St., Redfern. 2016	60846	1975	Premise Match	93m	South West
	MOTOR PAINTERS (M672)	Cleveland Smash Repairs., 2 Young St., Redfern	339200	1970	Premise Match	93m	South West
	MOTOR PANEL BEATERS (M680)	Cleveland Smash Repairs., 2 Young St., Redfern	339934	1970	Premise Match	93m	South West
	CYCLE ACCESSORIES-MFRS.&/OR WHOLESALERS (C795)	Thompson, K. W., 351 Cleveland St., Redfern	286754	1970	Premise Match	93m	South West
	IMPORTERS (I200)	Thompson, K. W., 351 Cleveland St., Redfern	318806	1970	Premise Match	93m	South West
	FOOTWEAR IMPORTERS (F450)	Thompson, K.W., 351 Cleveland St., Redfern	305203	1970	Premise Match	93m	South West
	Cabarets, Dance Restaurants & Road Houses	Cabana Night Club., 355 Cleveland St., Redfern	59842	1965	Premise Match	93m	South West
	Cycle Accessories - Mfrs. &/or Wholesalers	Thompson, K. W., 351 Cleveland St., Redfern	71475	1965	Premise Match	93m	South West
	Cycle Dealers & Accessories	Thompson, K. W., 351 Cleveland St., Redfern	71572	1965	Premise Match	93m	South West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
15	Footwear Importers	Thompson, K. W., 351 Cleveland St., Redfern	88566	1965	Premise Match	93m	South West
	Importers	Thompson, K. W., 351 Cleveland St., Redfern	103005	1965	Premise Match	93m	South West
	Radio &/Or Television Sales & Servicemen	Thompson, Kevin., 353 Cleveland St. Redfern	138380	1965	Premise Match	93m	South West
	Motor Panel Beaters	United Body Works Pty. Ltd., 2 Young St., Redfern	125089	1965	Premise Match	93m	South West
	BOOT & SHOE REPAIRERS	"Lily" Shoe Repairs, 351 Cleveland St., Redfern	274572	1961	Premise Match	93m	South West
	MOTOR GARAGES & ENGINEERS	B.E.S.T. Motors, 2 Young St. REDFERN	346575	1961	Premise Match	93m	South West
	MOTOR PAINTERS	B.E.S.T. Motors, 2 Young St., Redfern	348631	1961	Premise Match	93m	South West
	MOTOR PANEL BEATERS	B.E.S.T. Motors, 2 Young St., Redfern	349358	1961	Premise Match	93m	South West
	WELDERS-ELECTRIC &/OR OXY	B.E.S.T. Motors, 2 Young St., Redfern	261884	1961	Premise Match	93m	South West
	MOTOR CYCLE SALES/SERVICE	Bamba Motors, 153-155 Cleveland St., Redfern	345772	1961	Premise Match	93m	South West
	MOTOR SPARE PARTS MFRS. &/OR WHOLESALERS	Cook's Motors, 2 Young St. Redfern	351833	1961	Premise Match	93m	South West
	ELECTRICAL CONTRACTORS-LICENSED	Vass, N. & Kenny Pty. Ltd., 355 Cleveland St., Redfern	302663	1961	Premise Match	93m	South West
	CYCLE DEALERS & ACCESSORIES	Willoughby, E. S., 353 Cleveland St., Redfern	294312	1961	Premise Match	93m	South West
	MOTOR CAR & TRUCK DEALERS-USED	B.E.S.T. Motors, 153-155 Cleveland St., Redfern	82275	1950	Premise Match	93m	South West
	MOTOR CAR &/OR TRUCK DEALERS	B.E.S.T. Motors, 153-155 Cleveland St., Redfern	82613	1950	Premise Match	93m	South West
	MOTOR CYCLE SALES & SERVICE	B.E.S.T. Motors, 153-155 Cleveland St., Redfern	82886	1950	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS	B.E.S.T. Motors, 153-155 Cleveland St., Redfern	83406	1950	Premise Match	93m	South West
	MOTOR SPARE PARTS DEALERS-RETAIL	B.E.S.T. Motors, 153-155 Cleveland St., Redfern	86584	1950	Premise Match	93m	South West
	WELDERS-ELECTRIC &/OR OXY	B.E.S.T. Motors, 153-155 Cleveland St., Redfern	112649	1950	Premise Match	93m	South West
	MOTOR CYCLE SALES & SERVICE	Bamba Motors, 153-155 Cleveland St., Redfern	82892	1950	Premise Match	93m	South West
	SECONDHAND DEALERS	McKenzie, R. J., 153 Cleveland St., Redfern	101243	1950	Premise Match	93m	South West
16	RADIO &/OR TELEVISION SALES &/OR SERVICEMEN.	Glove Radio & Television Co. Pty. Ltd., 343 Cleveland St., Surry Hills. 2010	71625	1975	Premise Match	93m	South West
17	CLEANERS-GENERAL	Morrison, W., 71 High Holborn St., Surry Hills	22965	1950	Premise Match	93m	South East
18	VIDEO RECORDER &/OR CASSETTE SALES &/OR HIRE &/OR SERVICE	Gul-Ham Video, 357 Cleveland St Redfern. 2016	97582	1986	Premise Match	94m	South
19	MANCHESTER SPECIALISTS &/OR RETAILERS	Bahar Manchester, 359 Cleveland St., Redfern. 2016	52397	1986	Premise Match	95m	South
20	CARRIERS & CARTAGE CONTRACTORS	Searle, L., 337 Cleveland St., Redfern	285312	1961	Premise Match	96m	South West
21	DRY CLEANERS, PRESSERS & DYERS	Mel-Wyn Dry Cleaners, 145 Cleveland St., Redfern	35523	1950	Premise Match	98m	South
22	PIE MAKERS.	Ireland, E. A. & Co. Pty. Ltd., 32 Cleveland Ave., Surry Hills. 2010	57132	1978	Premise Match	99m	East
	CAKE & PASTRY MFRS. WHOLESALE	Ireland, E. A. & Co. Pty. Ltd., 32 Cleveland Ave., Surry Hills. 2010	10677	1978	Premise Match	99m	East
	CAKE & PASTRY MFRS. WHOLESALE	Ireland, E A. & Co. Pty. Ltd., 32 Cleveland Ave., Surry Hills. 2010.	12379	1975	Premise Match	99m	East
	PIE MAKERS.	Ireland, E. A. & Co. Pty. Ltd., 32 Cleveland Ave., Surry Hills. 2010	67286	1975	Premise Match	99m	East
	PIE MAKERS (P368)	IRELAND E A & CO PTY. LTD., 32 CLEVELAND AVE., SURRY HILLS, 2010	348915	1970	Premise Match	99m	East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
22	CAKE & PUDDING MFRS. &/OR DISTRIBUTORS (C036)	Ireland, E. A. & Co. Pty. Ltd., 32 Cleveland Ave., Sry Hls	276271	1970	Premise Match	99m	East
	CAKE & PASTRYCOOKS-WHOLESALE (C032)	Ireland, E. A. & Co. Pty. Ltd., 32 Cleveland Ave., Surry Hills.	276253	1970	Premise Match	99m	East
	PIE MAKERS (P368)	Ireland, E. A. h Co. Pty. Ltd., 32 Cleveland Ave., Surry Hills	348916	1970	Premise Match	99m	East
	CAKE & PASTRYCOOKS-WHOLESALE (C032)	James Manufacturing Pty. Ltd., 32 Cleveland Ave., Surry Hills	276254	1970	Premise Match	99m	East
	PIE MAKERS (P368)	Jams Manufacturing Pty. Ltd., 32 Cleveland Are., Surry Hills	348917	1970	Premise Match	99m	East
	Pie Makers	A-1 Square Pty Co., 32 Cleveland Ave., Surry Hills	133260	1965	Premise Match	99m	East
	Cake & Pudding Mfrs. &/Or Distributors	Ireland, E. A. & Co. Pty. Ltd., 32 Cleveland Ave., Surry Hills	60971	1965	Premise Match	99m	East
	Cake & Pastrycooks - Wholesale	Ireland, E. A. & Co. Pty. Ltd., 32 Cleveland Ave., Surry Hills	60961	1965	Premise Match	99m	East
	Pie Makers	Ireland, E. A. & Co. Pty. Ltd., 32 Cleveland Ave., Surry Hills	133267	1965	Premise Match	99m	East
	Pie Makers	James Manufacturing Pty. Ltd., 32 Cleveland Ave., Surry Hills	133268	1965	Premise Match	99m	East
	PIE MAKERS	A-1 Square Pie Co., 32 Cleveland Ave., Surry Hills	358568	1961	Premise Match	99m	East
	PIE MAKERS	A-1 Square Pie Co., 32 Cleveland St., Surry Hills	358567	1961	Premise Match	99m	East
	CAKE & PUDDING MFRS. &/OR DISTRIBUTORS	Ireland E A & Co Pty Ltd 32 Cleveland Ave., Surry Hills	282690	1961	Premise Match	99m	East
	CAKE & PASTRYCOOKS-WHOLESALE	Ireland, E. A. & Co. Pty. Ltd., 32 Cleveland Ave., Sry Hls	282675	1961	Premise Match	99m	East
	CAKE & PUDDING MFRS. &/OR DISTRIBUTORS	Ireland, E. A. & Co. Pty. Ltd., 32 Cleveland Ave., Sry Hls	282691	1961	Premise Match	99m	East
	CAKE SHOPS & PASTRYCOOKS	Ireland, E. A. & Co. Pty. Ltd., 32 Cleveland Ave., Surry Hills	283067	1961	Premise Match	99m	East
	PIE MAKERS	Ireland, E. A. & Co. Pty. Ltd., 32 Cleveland Ave., Surry Hills	358578	1961	Premise Match	99m	East
	CAKE SHOPS & PASTRYCOOKS	Bray, S. P. Ltd., 32 Cleveland Ave., Redfern	16486	1950	Premise Match	99m	East
	CAKE & PASTRYCOOKS-WHOLESALE	Ireland, E. A. and Co. Pty. Ltd., 32 Cleveland Ave., Surry Hills	16220	1950	Premise Match	99m	East
	BAKERS-BREAD	Ireland, E. A. and Co. Pty. Ltd., Cleveland Ave., Surry Hills	5320	1950	Premise Match	99m	East

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Business Directory Records 1950-1991
Road or Area Matches

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

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
23	CUSTARD POWDER MFRS (C780)	Cerebos (Aust.) Ltd., Goodlet St., Surry Hills	286509	1970	Road Match	0m
	FOOD EXPORTERS (F400)	Cerebos (Aust.) Ltd., Goodlet St., Surry Hills	304754	1970	Road Match	0m
	FOOD PROCESSORS/PACKERS (F430)	Cerebos (Aust.) Ltd., Goodlet St., Surry Hills	304948	1970	Road Match	0m
	FOOD PRODUCTS MFRS. &/OR DISTS.(F432)	Cerebos (Aust.) Ltd., Goodlet St., Surry Hills	305030	1970	Road Match	0m
	JELLY CRYSTAL MFRS. (J020)	Cerebos (Aust.) Ltd., Goodlet St., Surry Hills	320891	1970	Road Match	0m
	SALT MANUFACTURERS &/OR IMPORTERS (S044)	Cerebos (Aust.) Ltd., Goodlet St., Surry Hills	358504	1970	Road Match	0m
	CONDIMENT MFRS. &/OR DISTS.(C611)	Cerebos (Australia) Ltd., Goodlet St., Surry Hills	285328	1970	Road Match	0m
24	CARRIERS & CARTAGE CONTRACTORS	Baker, H. J., Lansdowne St., Surry Hills	18353	1950	Road Match	0m
25	ROLLER SHUTTER MFRS. (R405)	Andersons Roller Shutters, Christie Lane, Surry Hills	357775	1970	Road Match	12m
	Roller Shutter Mfrs.	Andersons Roller Shutters., Christie Lane, Surry Hills	141072	1965	Road Match	12m
	ROLLER SHUTTER MFRS.	Andersons Roller Shutters, Christie Lane, Surry Hills	246584	1961	Road Match	12m
	ROLLER SHUTTER MANUFACTURERS	Andersons Roller Shutters, Christie Lane, Surry Hills	99652	1950	Road Match	12m
26	ABRASIVE BLASTING. (A0170)	Horradence, A. E. & Co. Pty. Ltd., Riley St., Surry Hills. 2010	33	1982	Road Match	27m
	MILLINERY - MANUFACTURERS &/OR WHOLESALERS	Braiding, G. H., Riley St., Paddington	331455	1970	Road Match	27m
	Millinery - Manufacturers &/or Wholesalers	Braiding, G. H., Riley St., Paddington	115984	1965	Road Match	27m
	Electroplaters' Supplies	Healing, A. G. Ltd., Riley St.	80297	1965	Road Match	27m
	MOTOR CYLINDER REBORES	A.E.C. (Aust.) Pty. Ltd., Riley St., East Sydney	345856	1961	Road Match	27m
	TOILET PREPARATIONS MFRS.	Arden, Elizabeth Pty. Ltd., Riley St., Surry Hills	257908	1961	Road Match	27m
	COSMETIC MFRS. &/OR W'SALERS	Elizabeth Arden Pty. Limited, Riley St., Surry Hills	293370	1961	Road Match	27m
	ELECTROPLATERS' SUPPLIES	Healing, A. G. Ltd., Riley St.	304004	1961	Road Match	27m
	CYLINDER REBORING SPECIALISTS	A.E.C. (Aust.) Pty. Ltd., Riley St., East Sydney	30073	1950	Road Match	27m
	WINE & SPIRIT MERCHANTS-RETAIL	Hayes, G., Riley St., East Sydney	113518	1950	Road Match	27m
	ELECTROPLATERS' SUPPLIES	Healing, A. G. Ltd., Riley St.	39325	1950	Road Match	27m
27	MOTOR GARAGES & SERVICE STATIONS.	Harris Spares, Cleveland St., Redfern. 2016	64849	1986	Road Match	73m
	MOTOR SPARE PARTS DEALERS RETAIL	Harris Spares, Cleveland St., Redfern. 2016	67335	1986	Road Match	73m
	MOTOR WRECKERS.	Harris Spares, Cleveland St., Redfern. 2016	68775	1986	Road Match	73m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Harris Spares, Cleveland St., Redfern. 2016.	56943	1982	Road Match	73m
	MOTOR SPARE PARTS DEALERS -RETAIL. (M7840)	Harris Spares, Cleveland St., Redfern. 2016.	59145	1982	Road Match	73m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
27	MOTOR WRECKERS. (M8600)	Harris Spares, Cleveland St., Redfern, 2016	60047	1982	Road Match	73m
	MOTOR ACCESSORIES—MFRS	Power Plus, Cleveland St., Surry Hills	343924	1961	Road Match	73m

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Dry Cleaners, Motor Garages & Service Stations

61 Marlborough Street, Surry Hills, NSW 2010



Legend

- Site Boundary
- Buffer 250m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale: 0 40 80 120 160 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 05 September 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

61 Marlborough Street, Surry Hills, NSW 2010

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

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

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

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Auto Service Centre, The., 535 Riley St., Surry Hills. 2010	50200	1980	Premise Match	40m	West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Auto Service Centre, The., 535 Riley St., Surry Hills. 2010.	40812	1979	Premise Match	40m	West
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Auto Service Centre, The, 535 Riley St., Surry Hills. 2010	49327	1978	Premise Match	40m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Larke Hoskins & Co. Ltd., 535 Riley St Surry Hills	18210	1972	Premise Match	40m	West
	MOTOR GARAGES &/OR ENGINEERS.	Larke Hoskins Pty. Ltd., 535-553 Riley St Surry Hills	13103	1972	Premise Match	40m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Larke Hoskins & Co. Ltd., 535 Riley St., Surry Hills	2626	1971	Premise Match	40m	West
	MOTOR GARAGES &/OR ENGINEERS.	Larke Hoskins Pty. Ltd., 535-553 Riley St Surry Hills	62759	1971	Premise Match	40m	West
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc.	Larke Hoskins & Co. Ltd., 535 Riley St. SURRY HILLS	341269	1970	Premise Match	40m	West
	MOTOR GARAGES & ENGINEERS(M6S6)	Larke Hoskins Pty. Ltd., 535-553 Riley St. SURRY HILLS	338147	1970	Premise Match	40m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Larke Hoskins & Co. Ltd., 535 Riley St Surry Hills	50795	1969	Premise Match	40m	West
	MOTOR GARAGES & ENGINEERS.	Larke Hoskins Pty. Ltd., 535-553 Riley St Surry Hills	47209	1969	Premise Match	40m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Larke Hoskins & Co. Ltd., 535 Riley St Surry Hills	36877	1968	Premise Match	40m	West
	MOTOR GARAGES & ENGINEERS	Larke Hoskins Pty. Ltd., 535-553 Riley St Surry Hills	30648	1968	Premise Match	40m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Larke Hoskins & Co. Ltd., 535 Riley St Surry Hills	20345	1967	Premise Match	40m	West
	MOTOR GARAGES & ENGINEERS.	Larke Hoskins Pty. Ltd., 535-553 Riley St Surry Hills	11072	1967	Premise Match	40m	West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Larke Hoskins & Co. Ltd., 535 Riley St Surry Hills	1848	1966	Premise Match	40m	West
	MOTOR GARAGES & ENGINEERS.	Larke Hoskins Pty. Ltd., 535-553 Riley St Surry Hills	60798	1966	Premise Match	40m	West
	Motor Service Stations - Petrol, Oil, Etc	Larke Hoskins & Co. Ltd., 535 Riley St. Surry Hills	126188	1965	Premise Match	40m	West
	Motor Garages & Engineers	Larke Hoskins Pty. Ltd., 535-553 Riley St. Surry Hills	123435	1965	Premise Match	40m	West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Larke Hoskins & Co. Ltd., 535 Riley St Surry Hills	52439	1964	Premise Match	40m	West
	MOTOR GARAGES & ENGINEERS	Larke Hoskins Pty. Ltd., 535-553 Riley St Surry Hills	48711	1964	Premise Match	40m	West
2	DRY CLEANERS & PRESSERS.	New Hollywood., 347 Cleveland St., Redfern 2016	8717	1983	Premise Match	93m	South West
	DRY CLEANERS & PRESSERS.(D8500)	Colpan Bros., 347 Cleveland St., Redfern. 2016.	23796	1982	Premise Match	93m	South West
	DRY CLEANERS & PRESSERS.	Colpan Bros., 347 Cleveland St., Redfern. 2016	63281	1981	Premise Match	93m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS.	Colpan Bros., 347 Cleveland St., Redfern. 2016	46713	1980	Premise Match	93m	South West
	DRY CLEANERS, PRESSERS &/OR DYERS.	Colpan Bros., 347 Cleveland St., Redfern. 2016.	35310	1979	Premise Match	93m	South West
	MOTOR GARAGES & ENGINEERS	United Body Works Pty. Ltd., 2 Young St Redfern	48568	1964	Premise Match	93m	South West
	MOTOR GARAGES & ENGINEERS.	B.E.S.T. Motors., 2 Young St Redfern	33301	1962	Premise Match	93m	South West
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	B.E.S.T. Motors., 2 Young St Redfern	38605	1962	Premise Match	93m	South West
	MOTOR GARAGES & ENGINEERS	B.E.S.T. Motors, 2 Young St. REDFERN	346575	1961	Premise Match	93m	South West
	MOTOR GARAGES & ENGINEERS.	B.E.S.T. Motors., 2 Young St Redfern	19868	1959	Premise Match	93m	South West
	MOTOR GARAGE/ENGINEERS	Cooks Motors., 2 Young St Redfern	876	1958	Premise Match	93m	South West
	MOTOR SERVICE STATIONS-PETROL, ETC.	Cooks Motors., 2 Young St Redfern	9469	1958	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS	B.E.S.T. Motors., 2 Young St Redfern	57261	1956	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS	B.E.S.T. Motors., 153-155 Cleveland St Redfern	44823	1954	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS	B.E.S.T. Motors., 153-155 Cleveland St Redfern	27523	1952	Premise Match	93m	South West
	MOTOR GARAGES &/OR ENGINEERS	B.E.S.T. Motors, 153-155 Cleveland St., Redfern	83406	1950	Premise Match	93m	South West
3	DRY CLEANERS, PRESSERS & DYERS	Mel-Wyn Dry Cleaners., 145 Cleveland St Redfern	27181	1952	Premise Match	98m	South
	DRY CLEANERS, PRESSERS & DYERS	Mel-Wyn Dry Cleaners, 145 Cleveland St., Redfern	35523	1950	Premise Match	98m	South
	DRY CLEANERS, PRESSERS & DYERS	Mel-Wyn Dry Cleaners., 145 Cleveland St Redfern	17362	1948-49	Premise Match	98m	South
4	MOTOR GARAGES & SERVICE STATIONS.	BP Food Plus, 373 Cleveland St., Surry Hills. 2010	18642	1993	Premise Match	108m	South
	Motor Garages & Service Stations	BP Food Plus, 373 Cleveland St, Surry Hills 2010	66551	1991	Premise Match	108m	South
	MOTOR GARAGES & SERVICE STATIONS.	BP Food Plus, 373 Cleveland St., Surry Hills. 2010	6063	1990	Premise Match	108m	South
	MOTOR GARAGE & SERVICE STATIONS.	BP Food Plus, 373 Cleveland St., Surry Hills. 2010	64572	1989	Premise Match	108m	South
5	Motor Garages & Service Stations	Esso Cleveland Street Service Station, 375 Cleveland St, Surry Hills 2010	53718	1991	Premise Match	111m	South
	MOTOR GARAGES & SERVICE STATIONS.	Esso Cleveland Street Service Station, 375 Cleveland St., Surry Hills. 2010	11542	1990	Premise Match	111m	South
	MOTOR GARAGE & SERVICE STATIONS.	Esso Cleveland Street, 375 Cleveland St., Surry Hills. 2010	65000	1989	Premise Match	111m	South
	MOTOR GARAGES & SERVICE STATIONS	Esso Cleveland Street, 383 Cleveland St., Surry Hills. 2010	59217	1988	Premise Match	111m	South
	MOTOR GARAGES & SERVICE STATIONS.	Esso Cleveland Street, 383 Cleveland St., Surry Hills. 2010	64619	1986	Premise Match	111m	South
	MOTOR GARAGES & SERVICE STATIONS.	Esso Cleveland Street, 383 Cleveland St., Surry Hills. 2010	39618	1985	Premise Match	111m	South

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
5	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Esso Cleveland Street, 383 Cleveland St., Surry Hills. 2010	28198	1984	Premise Match	111m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Esso Cleveland Street., 383 Cleveland St., Surry Hills. 2010	14622	1983	Premise Match	111m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS (M6860)	Esso Cleveland Street, 383 Cleveland St., Surry Hills. 2010.	56686	1982	Premise Match	111m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Esso Cleveland Street., 383 Cleveland St., Surry Hills. 2010	3239	1981	Premise Match	111m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Coutinho (Esso S.C.)., 383 Cleveland St., Redfern. 2016.	41323	1979	Premise Match	111m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Coutinho (Esso S.C.), 383 Cleveland St, Redfern. 2016	49855	1978	Premise Match	111m	South
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS	Coutinho (Esso S/C)., 383 Cleveland St., Redfern 2016	29786	1976	Premise Match	111m	South
	MOTOR SERVICE STATIONS - PETROL, OIL	Coutinho (Esso S/C)., 383 Cleveland St., Redfern. 2016	61655	1975	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Coutinho (Esso Service Centre)., 375 Cleveland St Redfern	18091	1972	Premise Match	111m	South
	MOTOR GARAGES &/OR ENGINEERS	Esso Service Station., 375 Cleveland St Redfern	12932	1972	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Servicenter., 375 Cleveland St Redfern	18094	1972	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Servicenter., 375 Cleveland St Strawberry Hills	18200	1972	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Golden Grove Service Station (Shell)., 121-125 Cleveland St Redfern	18095	1972	Premise Match	111m	South
	MOTOR GARAGES &/OR ENGINEERS	Esso Service Station., 375 Cleveland St Redfern	62593	1971	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Servicenter., 375 Cleveland St Redfern	2530	1971	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC	Esso Servicenter., 375 Cleveland St Strawberry Hills	2617	1971	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Golden Grove Service Station (Shell)., 121-125 Cleveland St Redfern	2533	1971	Premise Match	111m	South
	MOTOR GARAGES & ENGINEERS(M6S6)	Esso Service Station., 375 Cleveland St., REDFERN	337752	1970	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc	Esso Servicenter., 375 Cleveland St., REDFERN	341072	1970	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc	Esso Servicenter., 375 Cleveland St., STRAWBERRY HILLS	341073	1970	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL,OIL,Etc	Golden Grove Service Station (Shell)., 121-125 Cleveland St., REDFERN	341181	1970	Premise Match	111m	South
	MOTOR GARAGES & ENGINEERS.	Esso Service Station., 375 Cleveland St Redfern	47029	1969	Premise Match	111m	South

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
5	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Servicenter., 375 Cleveland St Redfern	50678	1969	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Servicenter., 375 Cleveland St Strawberry Hills	50788	1969	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Golden Grove Service Station (Shell)., 121-125 Cleveland St Redfern	50681	1969	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Servicenter., 375 Cleveland St Redfern	36764	1968	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Servicenter., 375 Cleveland St., Strawberry Hills	36870	1968	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Golden Grove Service Station (Shell)., 121-125 Cleveland St Redfern	36767	1968	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Servicenter., 375 Cleveland St Redfern	16166	1967	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Servicenter., 375 Cleveland St Strawberry Hills	20337	1967	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Golden Grove Service Station (Shell)., 121-125 Cleveland St Redfern	16169	1967	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Servicenter., 375 Cleveland St Redfern	1740	1966	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Esso Servicenter., 375 Cleveland St., Strawberry Hill	1840	1966	Premise Match	111m	South
	MOTOR GARAGES & ENGINEERS.	Esso Servicentre., 375 Cleveland St Redfern	60643	1966	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Golden Grove Service Station (Shell)., 121-125 Cleveland St Redfern	1743	1966	Premise Match	111m	South
	Motor Service Stations - Petrol, Oil, Etc	Golden Grove Service Station (Shell), 121-125 Cleveland St. Redfern	126086	1965	Premise Match	111m	South
	MOTOR SERVICE STATIONS-PETROL, OIL, ETC.	Golden Grove Service Station (Shell)., 121-125 Cleveland St Redfern	52343	1964	Premise Match	111m	South
6	DRY CLEANERS, PRESSERS &/OR DYERS	Shehadie Bros., 307 Cleveland St Redfern	51321	1971	Premise Match	139m	South West
	DRY CLEANERS,PRESSERS /DYERS (D710)	Shehadie Bros., 307 Cleveland St., Redfern	292501	1970	Premise Match	139m	South West
	DRY CLEANERS, PRESSERS/ DYERS	Shehadie Bros., 307 Cleveland St Redfern	37310	1969	Premise Match	139m	South West
	DRY CLEANERS, PRESSERS/DYERS	Shehadie Bros., 307 Cleveland St Redfern	20768	1968	Premise Match	139m	South West
	DRY CLEANERS, PRESSERS/ DYERS	Shehadie Bros., 307 Cleveland St Redfern	6323	1967	Premise Match	139m	South West
	DRY CLEANERS, PRESSERS/ DYERS	Shehadie Bros., 307 Cleveland St., Redfern	55371	1966	Premise Match	139m	South West
	Dry Cleaners, Pressers/Dvers	Shehadle Bros., 307 Cleveland St., Redfern	76330	1965	Premise Match	139m	South West
	DRY CLEANERS, PRESSERS/ DYERS	Shehadie Bros., 307 Cleveland St Redfern	43162	1964	Premise Match	139m	South West
	DRY CLEANERS, PRESSERS/DYERS	Shehadie Bros., 307 Cleveland St Redfern	24906	1962	Premise Match	139m	South West
	DRY CLEANERS, PRESSERS / DYERS	Shehadle Bros., 307 Cleveland St., Redfern	299262	1961	Premise Match	139m	South West
	DRY CLEANERS, PRESSERS/DYERS	Shehadie Bros., 307 Cleveland St Redfern	13254	1959	Premise Match	139m	South West
7	MOTOR GARAGES &/OR ENGINEERS.	Imperial Garage., 397 Cleveland St., Redfern	22489	1948-49	Premise Match	141m	South

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
8	DRY CLEANERS, PRESSERS &/OR DYERS.	Malaxos M. & Son., 553 Crown St., Surry Hills 2010	23674	1976	Premise Match	143m	South East
	DRY CLEANERS, PRESSERS &/OR DYERS.	Malaxos, M. & Son, 553 Crown St., Surry Hills. 2010	24199	1975	Premise Match	143m	South East
9	DRY CLEANERS & PRESSERS.	Ankara, 314 Cleveland St., Surry Hills. 2010	52987	1988	Premise Match	147m	West
	DRY CLEANERS & PRESSERS.	Ankara, 314 Cleveland St., Surry Hills. 2010	25213	1986	Premise Match	147m	West
	DRY CLEANERS & PRESSERS.	Ankara, 314 Cleveland St., Surry Hills. 2010	34430	1985	Premise Match	147m	West
	DRY CLEANERS & PRESSERS.	Ankara, 314 Cleveland St., Surry Hills. 2010	21878	1984	Premise Match	147m	West
10	DRY CLEANERS, PRESSERS & DYERS	Jones, Dry Cleaners Pty. Ltd. 575 Crown St., Surry Hills	35341	1950	Premise Match	158m	South East
	DRY CLEANERS, PRESSERS & DYERS	Jones Dry Cleaners Pty. Ltd., 575 Crown St Surry Hills	17235	1948-49	Premise Match	158m	South East
11	DRY CLEANERS, PRESSERS & DYERS	Tasman Dry Cleaners. 302 Cleveland St	35767	1950	Premise Match	169m	West
	DRY CLEANERS, PRESSERS & DYERS	Tasman Dry Cleaners., 302 Cleveland St	17543	1948-49	Premise Match	169m	West
12	DRY CLEANERS, PRESSERS & DYERS	Patricia Florists (Anderson Bros.)., 638A Crown St Surry Hills	27212	1952	Premise Match	181m	South East
	DRY CLEANERS, PRESSERS & DYERS	Anderson Bros. Pty. Ltd. 638a Crown St.	35077	1950	Premise Match	181m	South East
	DRY CLEANERS, PRESSERS & DYERS	Patricia Florists (Anderson Bros.), 638a Crown St., Surry Hills	35585	1950	Premise Match	181m	South East
	DRY CLEANERS, PRESSERS & DYERS	Patricia Florists (Anderson Bros.), 638a Crown St., Surry Hills	17403	1948-49	Premise Match	181m	South East
13	MOTOR GARAGES &/OR ENGINEERS	Rowles, D. C., 11 Walker St., Redfern	22825	1948-49	Premise Match	187m	South West
14	MOTOR GARAGES & SERVICE STATIONS	Boyd's Garage (Nsw) Pty Ltd., 5 Nickson St., Surry Hills. 2010	18595	1993	Premise Match	193m	East
	Motor Garages & Service Stations	Boyd's Garage (NSW) Pty. Ltd, 5 Nickson St, Surry Hills 2010	66542	1991	Premise Match	193m	East
	MOTOR GARAGES & SERVICE STATIONS.	Boyd's Garage (NSW) Pty. Ltd, 5 Nickson St., Surry Hills. 2010	6009	1990	Premise Match	193m	East
	MOTOR GARAGE & SERVICE STATIONS.	Boyd's Garage (NSW) Pty. Ltd., 5 Nickson St., Surry Hills. 2010	64512	1989	Premise Match	193m	East
	MOTOR GARAGES & SERVICE STATIONS.	Boyd's Garage (Nsw) Pty. Ltd., 5 Nickson St., Surry Hills. 2010	53621	1988	Premise Match	193m	East

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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
15	MOTOR GARAGES & SERVICE STATIONS.	Harris Spares, Cleveland St., Redfern. 2016	64849	1986	Road Match	73m
	MOTOR GARAGES & SERVICE STATIONS.	Harris Spares., Cleveland St., Redfern. 2016	44951	1985	Road Match	73m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Harris Spares, Cleveland St., Redfern. 2016	28450	1984	Road Match	73m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Harris Spares., Cleveland St., Redfern. 2016	14878	1983	Road Match	73m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Harris Spares, Cleveland St., Redfern. 2016.	56943	1982	Road Match	73m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Harris Spares., Cleveland St., Redfern 2016	3497	1981	Road Match	73m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Harris Spares., Cleveland St., Redfern. 2016	58230	1980	Road Match	73m
16	DRY CLEANERS, PRESSERS &/OR DYERS	Dry Cleaners., Baptist St., Redfern 2016	23475	1976	Road Match	198m

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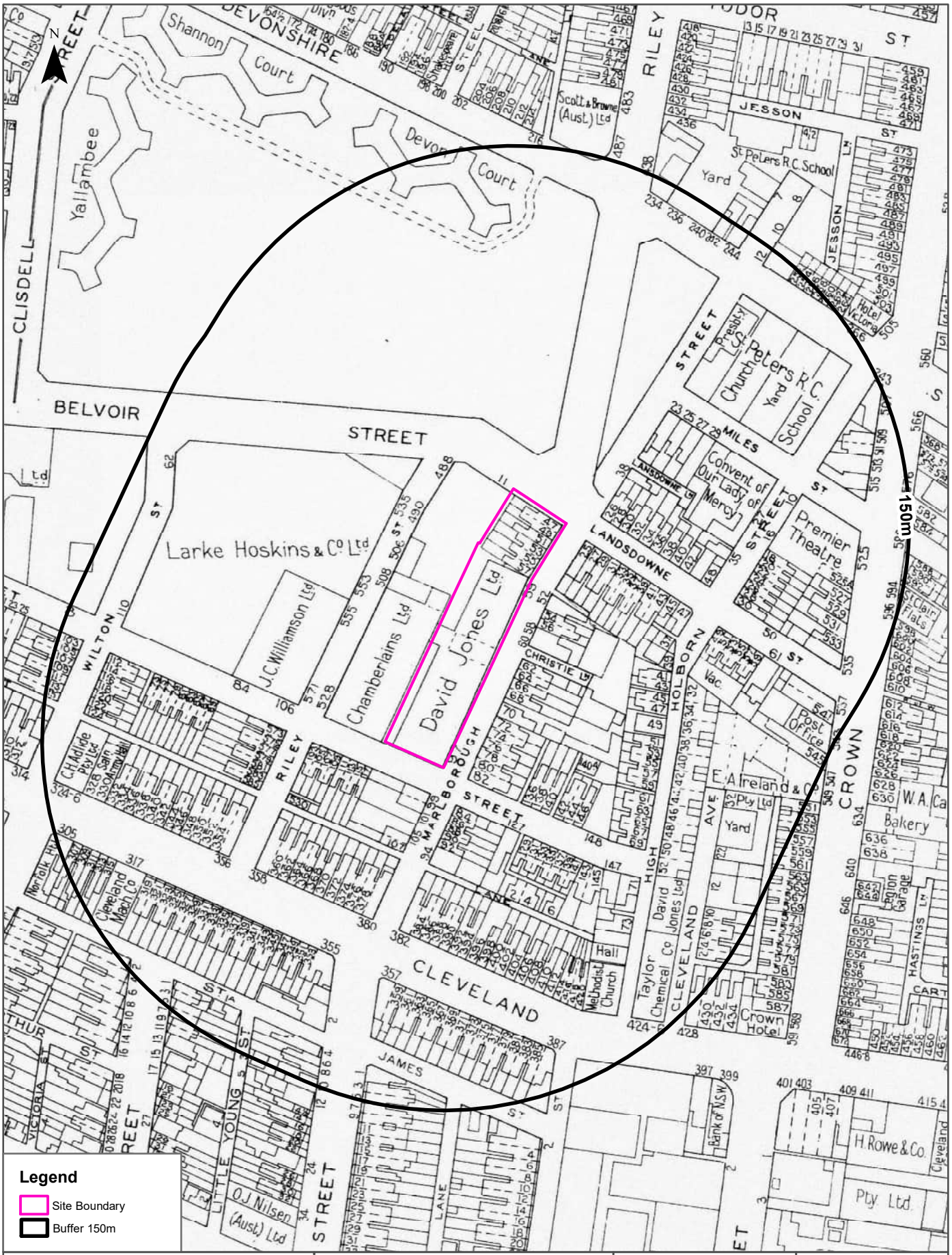
Historical Map 1975

61 Marlborough Street, Surry Hills, NSW 2010



Historical Map 1956

61 Marlborough Street, Surry Hills, NSW 2010



Legend

- Site Boundary
- Buffer 150m

Scale: 0 25 50 75 100 Meters

Data Sources: City Building Surveyor Sheets Building Regulation Branch - City Building Surveyor's Department, Council of the City of Sydney

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 September 2025

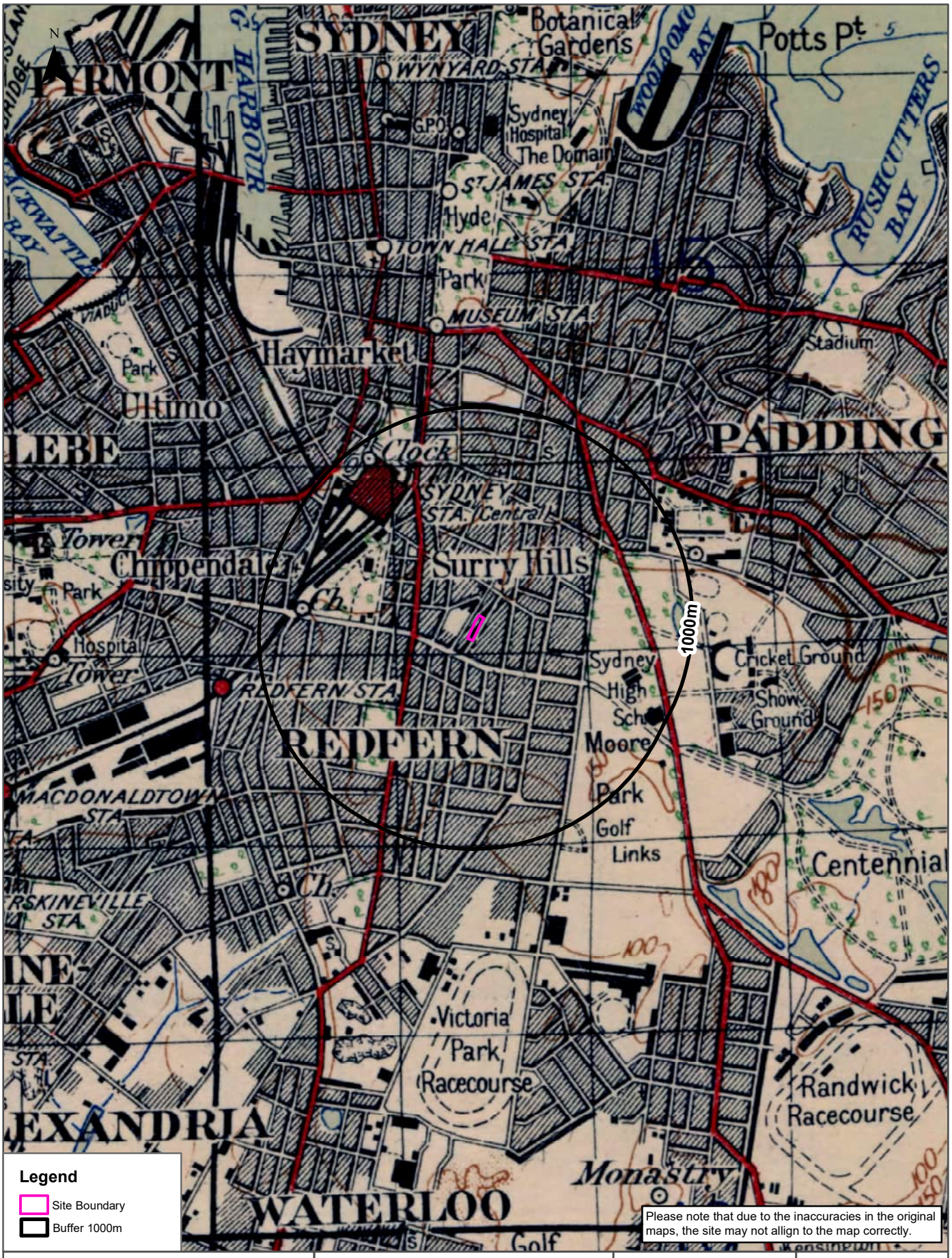
Historical Map 1938 - 1950

61 Marlborough Street, Surry Hills, NSW 2010



Historical Map c.1936

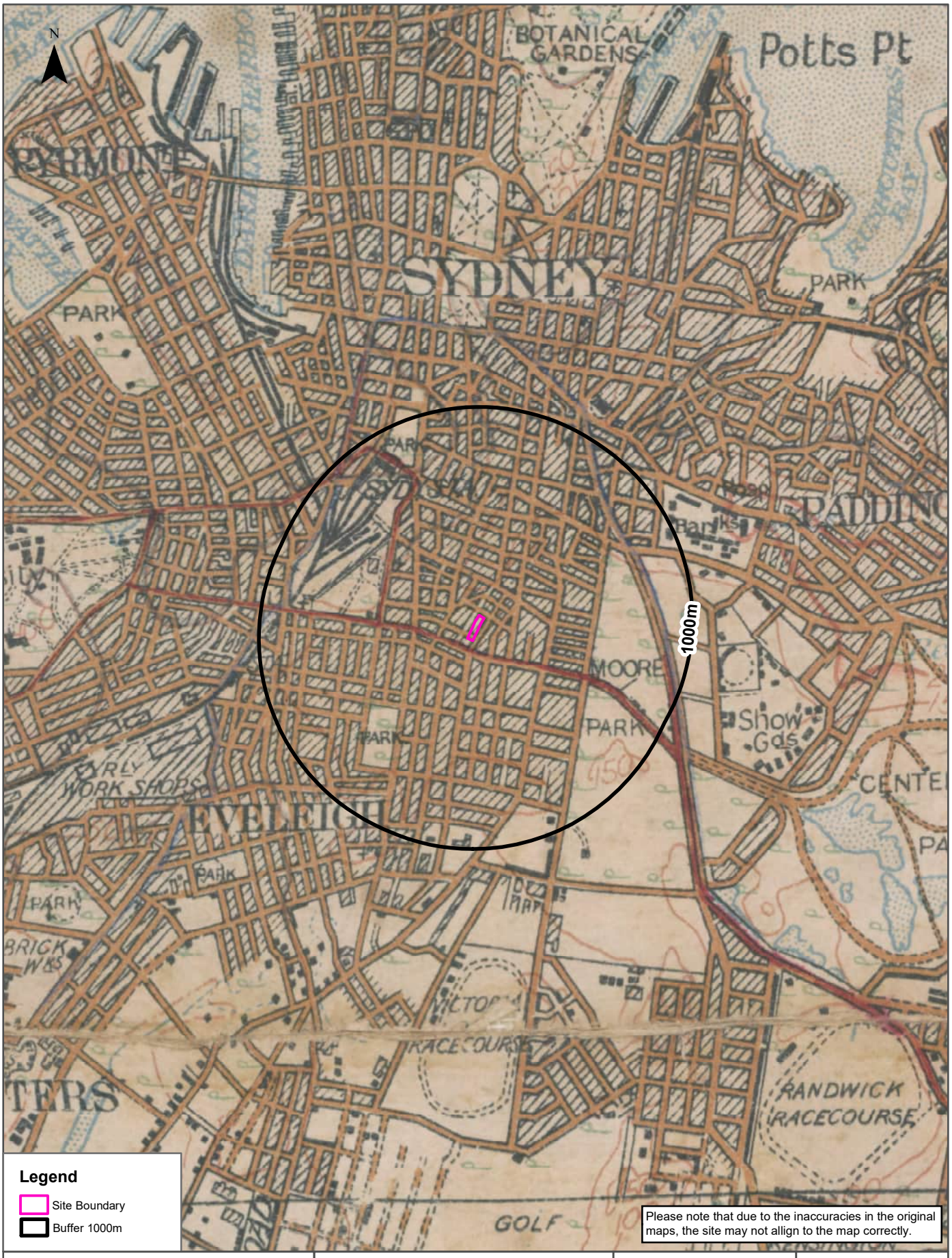
61 Marlborough Street, Surry Hills, NSW 2010



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: 04 September 2025

Historical Map c.1917

61 Marlborough Street, Surry Hills, NSW 2010



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: 04 September 2025

Topographic Features

61 Marlborough Street, Surry Hills, NSW 2010



Topographic Features

61 Marlborough Street, Surry Hills, NSW 2010

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
2276223	Park	WARD PARK	89m	North
2297749	Place Of Worship	CATHOLIC CHURCH	109m	North East
2373927	Place Of Worship	ISLAMIC	123m	West
2401246	Railway Station	SURRY HILLS LIGHT RAIL STOP	131m	North East
2320912	Suburb	SURRY HILLS	148m	North
2409999	Park	FERRY PLAYGROUND	155m	South
2297758	Shopping Centre	SURRY HILL SHOPPING VILLAGE	195m	South
2297750	Post Office	SURRY HILLS POST OFFICE	217m	South
2297751	Park	EDGELY STREET RESERVE	236m	East
2321574	Urban Place	STRAWBERRY HILLS	253m	West
2275769	Park	Park	259m	North East
2297634	Park	Park	262m	North
2373880	Place Of Worship	ORTHODOX CHURCH	265m	South West
2297630	Community Facility	SOUTH SYDNEY YOUTH CENTRE	271m	North
2393007	Community Facility	SURRY HILLS CHILDREN'S PROGRAM	272m	North
2297629	Child Care Centre	SURRY HILLS LONG DAY CENTRE	280m	North
2297633	Park	Park	296m	North
2410000	Park	COOPER STREET PLAYGROUND	303m	South
2380545	Primary School	BOURKE STREET PUBLIC SCHOOL	334m	East
2297752	Park	WIMBO PARK	334m	East
2373928	Place Of Worship	QUAKER MEETING ROOM	345m	North West
2384760	Primary School	SYDNEY DISTANCE EDUCATION PRIMARY SCHOOL	346m	North
2297747	Place Of Worship	BAPTIST CHURCH	364m	West
2297632	Community Facility	SURRY HILLS COMMUNITY CENTRE	410m	North East
2336658	Child Care Centre	JOHN J CARROLL KINDERGARTEN	411m	North East
2297631	Library	SURRY HILLS LIBRARY	418m	North East
2402702	Park	PLAYGROUND	423m	North East
2297682	Park	Park	430m	North East
2373881	Place Of Worship	CATHOLIC CHURCH	433m	South West
2297760	Park	CHELSEA PLAYGROUND	459m	South East
2392404	Nursing Home	ANNIE GREEN COURT	463m	South West
2275766	Park	SHANNON RESERVE	469m	North East

Map Id	Feature Type	Label	Distance	Direction
2297748	Place Of Worship	PRESBYTERIAN CHURCH	470m	North West
2275681	Place Of Worship	ANGLICAN CHURCH	491m	South
2297635	Park	Park	493m	North East
2391446	Community Medical Centre	THE LANGTON CENTRE	494m	East
2401031	High School	INNER SYDNEY HIGH SCHOOL	500m	West
2402699	Park	PLAYGROUND	517m	East
2297636	Park	Park	518m	North East
2402628	Park	Park	524m	East
2297742	Post Office	STRAWBERRY HILLS POST BUSINESS CENTRE	526m	West
2393133	Club	GAELIC CLUB	527m	North West
2410169	Swimming Pool Facility	PRINCE ALFRED PARK POOL	533m	North West
2276222	Park	PRINCE ALFRED PARK	570m	West
2297754	Park	REDFERN PARK	589m	South West
2410058	Park	ELIZABETH MCCREA PLAYGROUND	614m	South
2394524	University	UNIVERSITY OF SYDNEY SURRY HILLS CAMPUS	621m	North West
2401465	Urban Place	EQUALITY GREEN	628m	West
2297628	General Hospital	SYDNEY DENTAL HOSPITAL	634m	North West
2387442	Embassy	CONSULATE-GENERAL OF THE ARAB REPUBLIC OF EGYPT	638m	North
2404450	Railway Station	CENTRAL CHALMERS STREET LIGHT RAIL STOP	651m	North West
2336774	Community Facility	REDFERN TOWN HALL	652m	South West
2320913	Suburb	REDFERN	675m	South West
2297627	Place Of Worship	PRESBYTERIAN CHURCH	676m	North East
2320909	Urban Place	CENTRAL	676m	North West
2297744	Sports Court	TENNIS COURTS	681m	West
2381854	Park	MOORE PARK RESERVE	684m	East
2393009	Community Facility	REDFERN OVAL COMMUNITY ROOM	696m	South West
2394563	Community Medical Centre	THE ALBION CENTRE	700m	North
2297743	Park	RECONCILIATION PARK	705m	West
2297756	Community Facility	SOUTH SYDNEY PCYC	709m	South West
2297753	Sports Field	REDFERN OVAL	709m	South West
2297745	Club	JENSEN'S TENNIS CENTRE	710m	West
2297626	Park	HILLS RESERVE	711m	North
2297757	Park	JACK OBRIEN RESERVE	715m	South
2276186	Place Of Worship	CATHOLIC CHURCH	723m	North
2297755	Child Care Centre	REDFERN EARLY CHILDHOOD CENTRE	724m	South West
2381849	Sports Field	BAT AND BALL FIELD	733m	South East
2410345	Court House	SURRY HILLS CHILDRENS COURT	733m	North

Map Id	Feature Type	Label	Distance	Direction
2275767	Nursing Home	CATHOLIC HEALTHCARE GERTRUDE ABBOTT AGED CARE	735m	North East
2275768	Nursing Home	CATHOLIC HEALTHCARE THE SISTER ANNE COURT AGED CARE	747m	North East
2404291	Railway Station	CENTRAL RAILWAY STATION	752m	North West
2297759	Court House	REDFERN COURT HOUSE	754m	South West
2391441	Community Medical Centre	REDFERN COMMUNITY HEALTH CENTRE	754m	South West
2380681	High School	SYDNEY BOYS HIGH SCHOOL	781m	East
2374665	Nursing Home	FREDERIC HOUSE	783m	South
2336780	Community Facility	ST MICHAELS CHURCH HALL	789m	North East
2297746	Place Of Worship	ORTHODOX CHURCH	790m	West
2387432	Embassy	CONSULATE OF THE PEOPLE'S REPUBLIC OF CHINA	799m	West
2373882	Place Of Worship	CATHOLIC CHURCH	800m	South West
2379196	Primary School	REDFERN JARJUM COLLEGE	807m	South West
2373629	Place Of Worship	ANGLICAN CHURCH	810m	North East
2297616	Place Of Worship	ISLAMIC	821m	North
2275676	Park	MOORE PARK	831m	South East
2380537	Primary School	CROWN STREET PUBLIC SCHOOL	842m	North
2297779	Child Care Centre	WATERLOO KINDERGARTEN	843m	South West
2373959	Place Of Worship	ASSEMBLIES OF GOD CHURCH	858m	South
2297741	Fire Station	REDFERN FIRE STATION	866m	South West
2297804	Historic Site	MORTUARY STATION	871m	West
2393008	Community Facility	REDFERN NEIGHBOURHOOD SERVICE CENTRE	879m	West
2402559	Park	HILLS RESERVE	881m	North
2400295	Historic Site	AMBULANCE SERVICE HISTORIC SITE	881m	North West
2404396	Railway Station	CENTRAL SLR STOP	881m	North West
2387658	Transport Interchange	EDDY AVENUE BUS INTERCHANGE	895m	North West
2321375	Mountain Like	MOUNT STEELE	898m	South East
2276225	Post Office	REDFERN POST OFFICE	910m	West
2381650	High School	SYDNEY GIRLS HIGH SCHOOL	914m	South East
2373926	Place Of Worship	ORTHODOX CHURCH	930m	North East
2372745	University	CURTIN UNIVERSITY SYDNEY	935m	North West
2297773	Place Of Worship	UNITING CHURCH	944m	South West
2276224	Park	BELMORE PARK	959m	North
2387657	Transport Interchange	RAILWAY SQUARE BUS INTERCHANGE	960m	North West
2297625	Park	JAMES HILDER RESERVE	960m	North
2297828	Sports Court	TENNIS COURTS	962m	South East
2387696	Transport Interchange	REDFERN BUS INTERCHANGE	968m	West
2320911	Urban Place	RAILWAY SQUARE	974m	North West

Map Id	Feature Type	Label	Distance	Direction
2373870	Place Of Worship	ORTHODOX CHURCH	977m	North East
2297035	Natural Waterbody	KIPPAX LAKE	986m	East
2275677	Sports Field	TRAMWAY OVAL	992m	East

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
15846	Water	Operational		01/05/2020	934m	North

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
120122137	Primary	Undefined		596m	South West
120110411	Primary	Undefined		666m	North East
120107821	Primary	Undefined		690m	North East
120106944	Primary	Undefined		873m	West
120122035	Primary	Undefined		999m	North

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

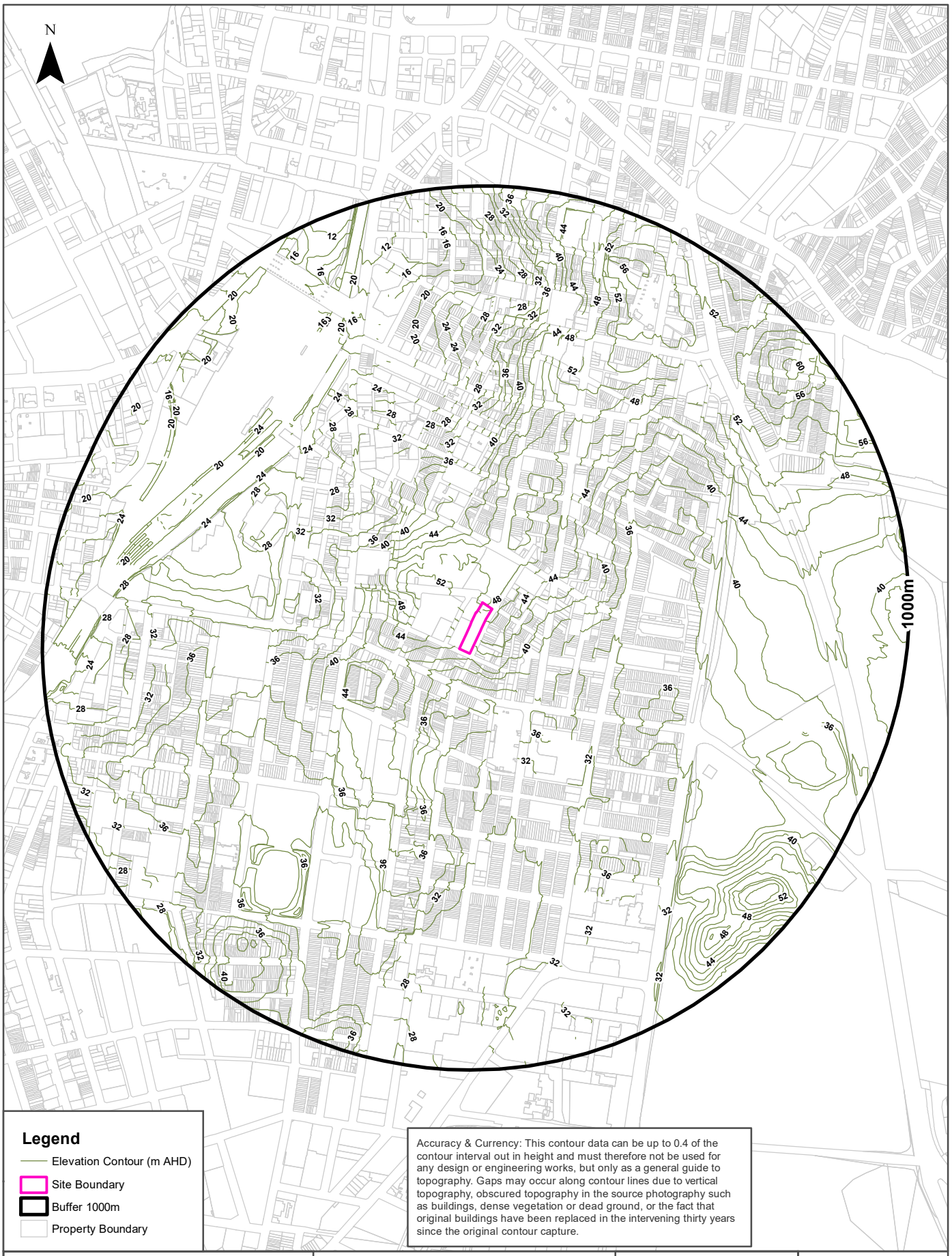
What State Forest exist within the dataset buffer?

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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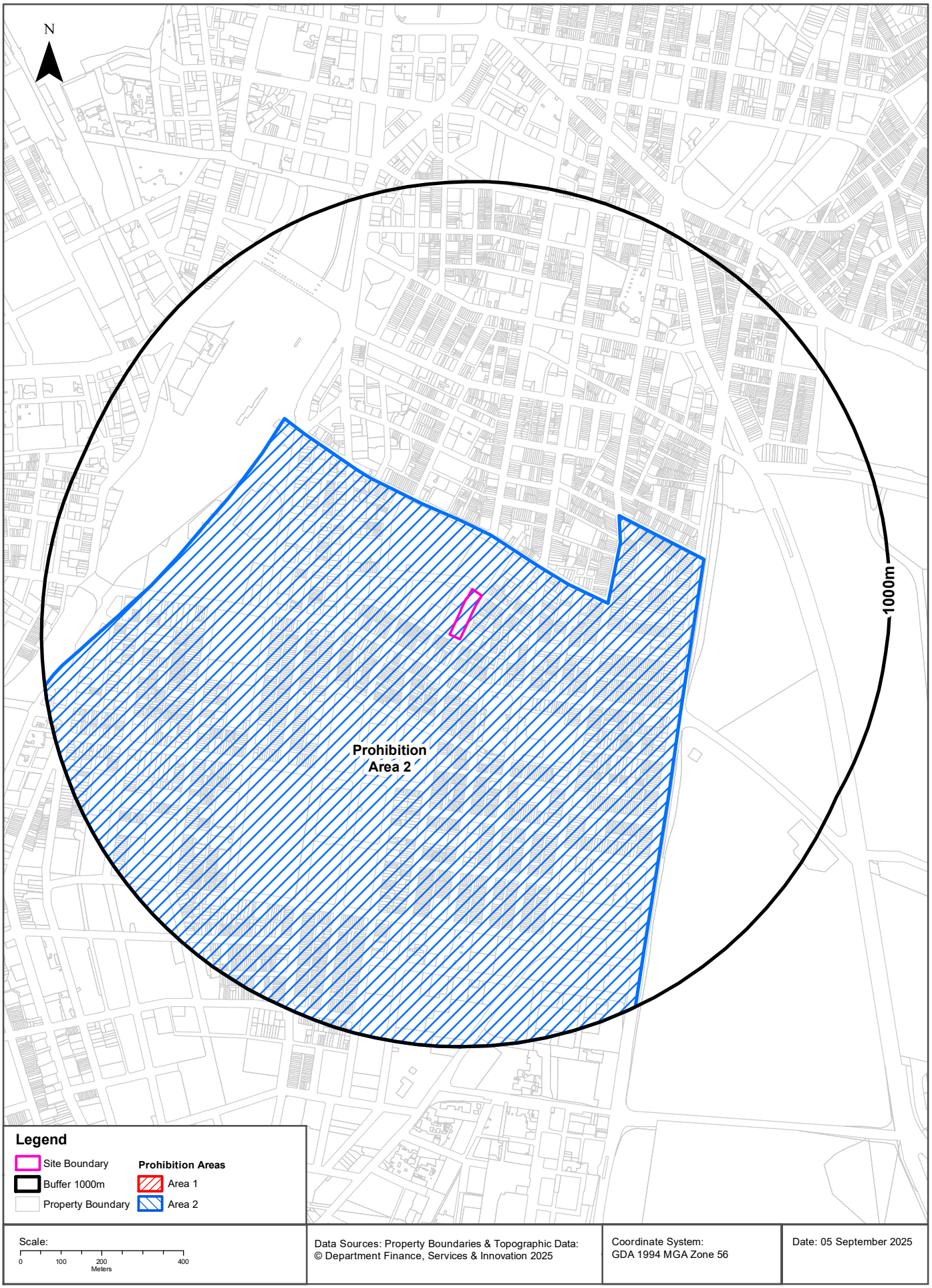
Elevation Contours (m AHD)

61 Marlborough Street, Surry Hills, NSW 2010



Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

61 Marlborough Street, Surry Hills, NSW 2010



Hydrogeology & Groundwater

61 Marlborough Street, Surry Hills, NSW 2010

Hydrogeology

Description of aquifers within the dataset buffer:

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

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

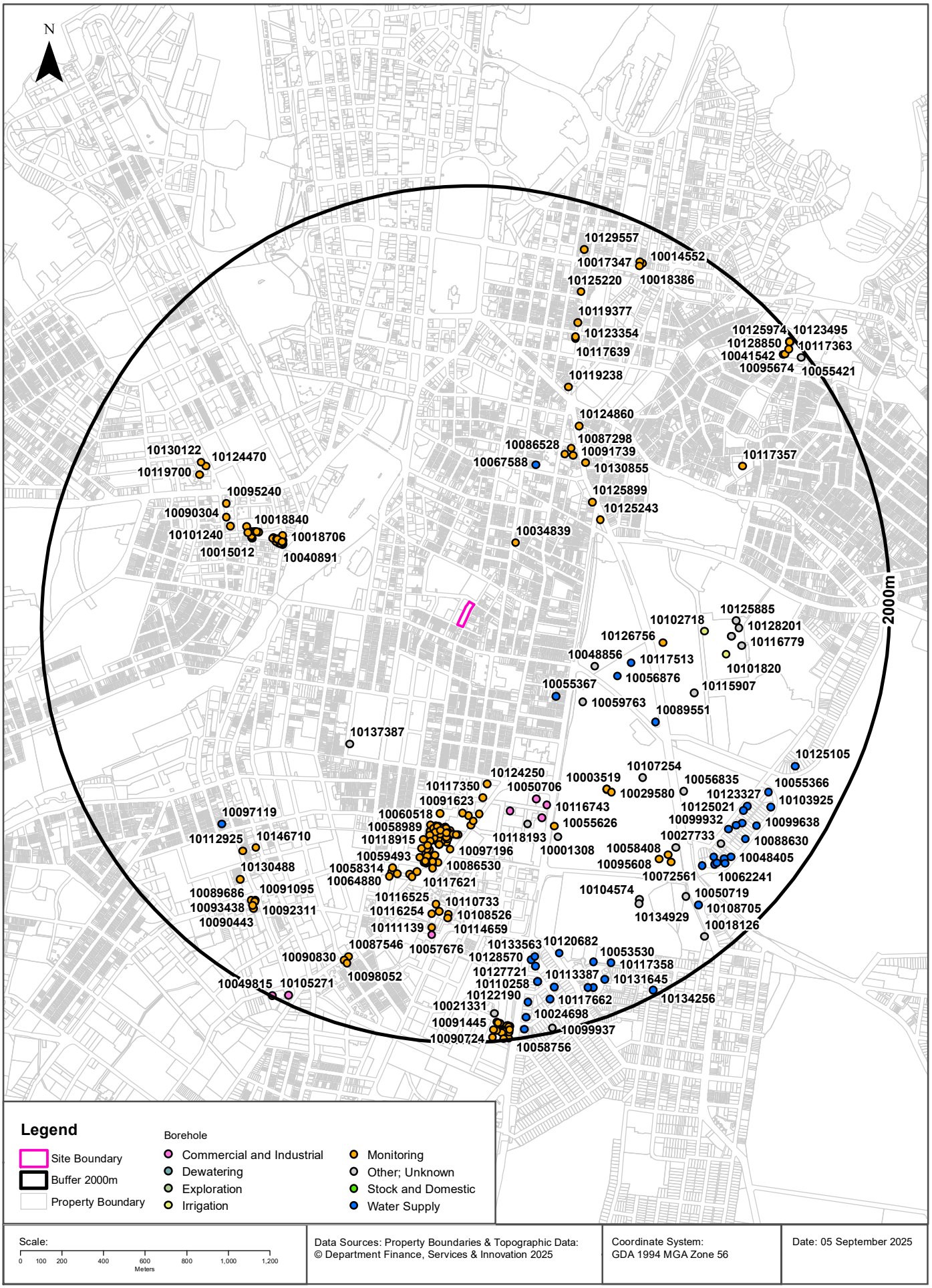
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibition Area No.	Prohibition	Distance	Direction
2	Groundwater cannot be used for: a. human consumption; b. consumption by animals; c. domestic purposes; d. any other purpose, except if the water is fit for purpose, or it is for remediation, temporary construction dewatering, testing or monitoring purposes.	0m	On-site

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

Groundwater Boreholes

61 Marlborough Street, Surry Hills, NSW 2010



Legend

- Site Boundary
- Buffer 2000m
- Property Boundary

Borehole

- Commercial and Industrial
- Dewatering
- Exploration
- Irrigation
- Monitoring
- Other; Unknown
- Stock and Domestic
- Water Supply

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

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

Coordinate System: GDA 1994 MGA Zone 56

Date: 05 September 2025

Hydrogeology & Groundwater

61 Marlborough Street, Surry Hills, NSW 2010

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
10034839	GW102476	Monitoring	Unknown	01/01/1999	4.00		AHD				358m	North East
10055367	GW105525	Water Supply	Unknown	18/11/2003	5.49		AHD		1.000	2.75	560m	South East
10048856	GW104131	Other	Unknown	03/08/2000	20.00		AHD				655m	East
10059763	GW104133	Other	Unknown	28/07/2000	20.50		AHD	Fresh			683m	South East
10067588	GW200690	Water Supply	Unknown	20/12/2007	6.00		AHD				730m	North East
10125243	GW112182	Monitoring	Functional	01/03/1999	30.00		AHD				734m	North East
10125899	GW112181	Monitoring	Functional	01/03/1999	30.00		AHD				754m	North East
10124250	GW111433	Monitoring	Functional	24/01/2011	6.30		AHD				766m	South
10056876	GW105920	Water Supply	Unknown	13/05/2005			AHD			6.00	773m	East
10137387	GW071907	Other	Functioning	15/05/2008	180.00	30.00	AHD	345	0.100	11.60	774m	South West
10117513	GW105076	Water Supply	Functioning	30/04/2003	10.00		AHD		1.000	6.00	808m	East
10117350	GW111434	Monitoring	Functional	24/01/2011	8.00		AHD				829m	South
10086528	GW109238	Monitoring	Unknown	19/08/2008	7.50		AHD	Fresh		4.59	845m	North East
10091739	GW109239	Monitoring	Unknown	19/08/2008	7.45		AHD	Fresh		4.57	860m	North East
10130855	GW112180	Monitoring	Functional	01/03/1999	30.00		AHD				868m	North East
10087298	GW109240	Monitoring	Unknown	20/08/2008	7.50		AHD	Fresh		5.67	886m	North East
10091623	GW111014	Monitoring	Functional	18/12/2003	6.50		AHD				896m	South
10050706	GW017869	Commercial and Industrial	Unknown	01/01/1955	17.90		AHD	Good			901m	South
10094950	GW111016	Monitoring	Functional	30/01/2004	4.40		AHD				904m	South
10123028	GW113470	Monitoring	Functional	11/02/2008	5.70		AHD				904m	South
10088683	GW111015	Monitoring	Functional	18/02/2003	7.00		AHD				909m	South
10132198	GW037956	Commercial and Industrial	Unknown	01/04/1972			AHD				916m	South
10040891	GW113883	Monitoring	Functional	20/08/2004	6.10		AHD				923m	West
10041505	GW113885	Monitoring	Functional	20/08/2004	7.00		AHD				924m	West
10065448	GW113893	Monitoring	Functional	11/10/2005	8.50		AHD				924m	West
10067968	GW113892	Monitoring	Functional	09/10/2005	7.00		AHD				927m	West
10126756	GW100268	Monitoring	Unknown	28/09/1993	18.00		AHD			8.20	928m	East
10018706	GW113860	Monitoring	Functional	16/09/2003	6.50		AHD				930m	West
10058255	GW113891	Monitoring	Functional	09/10/2005	6.80		AHD				930m	West
10120160	GW113855	Monitoring	Functional	22/07/2003	5.00		AHD				930m	West

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10124948	GW113856	Monitoring	Functional	23/07/2003	6.20		AHD				931m	West
10068400	GW113890	Monitoring	Functional	09/10/2005	6.00		AHD				935m	West
10125442	GW113471	Monitoring	Functional	11/02/2008	4.50		AHD				937m	South
10047495	GW113882	Monitoring	Functional	20/08/2004	6.10		AHD				938m	West
10047494	GW113879	Monitoring	Functional	25/07/2003	5.30		AHD				941m	North West
10043750	GW113884	Monitoring	Functional	20/08/2004	6.80		AHD				942m	West
10044808	GW113875	Monitoring	Functional	30/07/2003	7.50		AHD				942m	West
10047011	GW113874	Monitoring	Functional	19/09/2003	7.00		AHD				942m	West
10100495	GW109500	Monitoring	Unknown	01/03/2007	4.80		AHD			2.30	942m	West
10041504	GW113881	Monitoring	Functional	20/08/2004	6.10		AHD				944m	West
10043353	GW113873	Monitoring	Functional	26/07/2003	6.00		AHD				944m	West
10116743	GW017340	Commercial and Industrial	Functioning	01/06/1958	18.50		AHD	Good			949m	South East
10058087	GW113889	Monitoring	Functional	05/10/2004	6.70		AHD				956m	West
10047496	GW113886	Monitoring	Functional	01/10/2004	5.80		AHD				957m	West
10118916	GW113472	Monitoring	Functional	11/02/2008	6.20		AHD				958m	South
10124855	GW113857	Monitoring	Functional	23/07/2003	6.00		AHD				958m	West
10021854	GW113859	Monitoring	Functional	15/09/2003	6.10		AHD				961m	West
10117564	GW113858	Monitoring	Functional	19/09/2003	6.30		AHD				961m	West
10042657	GW114390	Monitoring	Functional	28/07/2009	3.20		AHD				967m	South
10060518	GW114393	Monitoring	Functional	28/07/2009	4.20		AHD				967m	South
10072547	GW114398	Monitoring	Functional	28/07/2009	4.20		AHD				967m	South
10045798	GW114386	Monitoring	Functional	27/07/2009	5.20		AHD				969m	South
10095524	GW113792	Monitoring	Functional	04/05/2006	3.70		AHD				971m	South
10093950	GW109748	Monitoring	Unknown	02/08/2002	3.80		AHD				973m	South
10058307	GW113888	Monitoring	Functional	05/10/2004	5.50		AHD				976m	West
10058472	GW114391	Monitoring	Functional	28/07/2009	4.20		AHD				976m	South
10067967	GW113887	Monitoring	Functional	05/10/2004	5.70		AHD				978m	West
10061420	GW114396	Monitoring	Functional	28/07/2009	5.20		AHD				980m	South
10095236	GW109751	Monitoring	Unknown	05/08/2002	3.50		AHD				980m	South
10052839	GW114388	Monitoring	Functional	28/07/2009	5.20		AHD				983m	South
10084386	GW111405	Monitoring	Functional	16/07/2010	4.80		AHD				984m	South
10049658	GW114387	Monitoring	Functional	27/07/2009	3.20		AHD				985m	South
10090719	GW113790	Monitoring	Functional	03/05/2006	5.85		AHD				987m	South
10099657	GW109747	Monitoring	Unknown	02/08/2002	3.80		AHD				988m	South
10090145	GW111407	Monitoring	Functional	15/10/2010	4.80		AHD				992m	South
10095606	GW113783	Monitoring	Functional	22/11/2000	4.60		AHD				994m	South
10124860	GW112179	Monitoring	Functional	01/03/1999	30.00		AHD				995m	North East

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10058989	GW114399	Monitoring	Functional	28/07/2009	4.20		AHD				996m	South
10059069	GW017870	Commercial and Industrial	Unknown	01/03/1955	17.90		AHD				996m	South
10091441	GW113793	Monitoring	Functional	04/05/2006	4.10		AHD				996m	South
10100433	GW109752	Monitoring	Unknown	05/08/2002	3.40		AHD				996m	South
10091813	GW109744	Monitoring	Unknown	02/08/2002	4.00		AHD				997m	South
10096335	GW109746	Monitoring	Unknown	02/08/2002	4.20		AHD				998m	South
10050845	GW114389	Monitoring	Functional	27/07/2009	3.20		AHD				999m	South
10118193	GW108245	Other	Unknown	21/09/2006	20.80		AHD	198	1.500	5.80	1000m	South
10125134	GW111082	Monitoring	Functional	02/09/2006	4.00		AHD				1000m	South
10062594	GW114394	Monitoring	Functional	28/07/2009	4.20		AHD				1002m	South
10124968	GW111080	Monitoring	Functional	02/09/2006	5.00		AHD				1002m	South
10134095	GW111081	Monitoring	Functional	02/09/2006	4.00		AHD				1002m	South
10058308	GW114400	Monitoring	Functional	27/07/2009	3.20		AHD				1006m	South
10091738	GW109749	Monitoring	Unknown	05/08/2002	4.50		AHD				1006m	South
10063881	GW114397	Monitoring	Functional	27/07/2009	3.20		AHD				1007m	South
10088826	GW111406	Monitoring	Functional	16/07/2010	4.80		AHD				1007m	South
10063526	GW114392	Monitoring	Functional	27/07/2009	2.40		AHD				1009m	South
10081777	GW113796	Monitoring	Functional	14/06/2006	11.05		AHD				1012m	South
10059400	GW114395	Monitoring	Functional	27/07/2009	3.20		AHD				1013m	South
10097381	GW113795	Monitoring	Functional	04/05/2006	3.90		AHD				1015m	South
10092981	GW113786	Monitoring	Functional	02/05/2006	3.00		AHD				1018m	South
10082020	GW113798	Monitoring	Functional	10/02/2014	4.80		AHD				1023m	South
10087789	GW113787	Monitoring	Functional	02/05/2006	4.80		AHD				1023m	South
10088694	GW113789	Monitoring	Functional	03/05/2006	10.95		AHD				1025m	South
10080977	GW113791	Monitoring	Functional	04/05/2006	4.00		AHD				1026m	South
10094858	GW109745	Monitoring	Unknown	02/08/2002	3.50		AHD				1027m	South
10084104	GW109750	Monitoring	Unknown	05/08/2002	3.50		AHD				1028m	South
10089551	GW106328	Water Supply	Unknown	12/06/2004	9.50		AHD				1035m	South East
10084749	GW113794	Monitoring	Functional	08/06/2006	11.15		AHD				1037m	South
10067119	GW114403	Monitoring	Functional	05/08/2009	2.20		AHD				1039m	South
10062528	GW114402	Monitoring	Functional	05/08/2009	2.20		AHD				1040m	South
10058088	GW114401	Monitoring	Functional	05/08/2009	2.20		AHD				1042m	South
10118915	GW113467	Monitoring	Functional	18/01/2007	3.40		AHD				1042m	South
10120873	GW112715	Monitoring	Functional	29/11/2010	4.10		AHD				1043m	South
10003519	GW042158	Monitoring	Unknown		21.15	43.71	AHD				1046m	South East
10153348	GW042158.1	Unknown	Unknown			43.71	AHD				1046m	South East
10153846	GW042158.1.1	Unknown	Unknown			43.71	AHD				1047m	South East

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10041126	GW113878	Monitoring	Functional	07/11/2003	7.00		AHD				1053m	West
10088460	GW113788	Monitoring	Functional	10/02/2014	11.00		AHD				1056m	South
10095836	GW113785	Monitoring	Functional	22/11/2000	4.00		AHD				1056m	South
10096602	GW113782	Monitoring	Functional	17/11/2000	8.00		AHD				1056m	South
10055626	GW104266	Monitoring	Functioning	11/04/2002	22.80		AHD	134	9.000	5.85	1057m	South East
10052854	GW113877	Monitoring	Functional	28/07/2003	5.50		AHD				1062m	West
10133188	GW112714	Monitoring	Functional	29/11/2010	4.10		AHD				1067m	South
10015012	GW113862	Monitoring	Functional	28/07/2003	3.80		AHD				1070m	West
10046818	GW113876	Monitoring	Functional	25/07/2003	7.80		AHD				1070m	West
10018320	GW113863	Monitoring	Functional	16/09/2003	4.60		AHD				1072m	West
10029580	GW100546	Monitoring	Proposed	09/03/1997	14.50		AHD	Good	9.500	6.40	1072m	South East
10018707	GW113864	Monitoring	Functional	22/07/2003	4.50		AHD				1074m	West
10097196	GW113781	Monitoring	Functional	17/11/2000	4.50		AHD				1074m	South
10021163	GW113865	Monitoring	Functional	21/07/2003	6.50		AHD				1075m	West
10018840	GW113872	Monitoring	Functional	16/09/2003	8.00		AHD				1076m	West
10015013	GW113866	Monitoring	Functional	18/02/2014	3.00		AHD				1077m	West
10059857	GW113258	Monitoring	Functional	29/11/2010	4.10		AHD				1077m	South
10018321	GW113867	Monitoring	Functional	22/07/2003	3.50		AHD				1078m	West
10016953	GW113868	Monitoring	Functional	18/02/2014	3.70		AHD				1080m	West
10014393	GW113869	Monitoring	Functional	29/07/2003	6.00		AHD				1081m	West
10019726	GW113870	Monitoring	Functional	07/11/2003	4.80		AHD				1084m	West
10018940	GW113871	Monitoring	Functional	08/11/2003	6.00		AHD				1085m	West
10117227	GW112713	Monitoring	Functional	29/11/2010	4.05		AHD				1085m	South
10127428	GW113468	Monitoring	Functional	18/01/2007	3.50		AHD				1085m	South
10058827	GW113257	Monitoring	Functional	29/11/2010	4.10		AHD				1086m	South
10043749	GW113880	Monitoring	Functional	20/08/2004	5.00		AHD				1099m	West
10050883	GW113256	Monitoring	Functional	29/11/2010	4.05		AHD				1107m	South
10086420	GW113784	Monitoring	Functional	22/11/2000	7.00		AHD				1108m	South
10001308	GW048937	Other	Proposed	01/06/1974	24.40		AHD				1111m	South East
10021162	GW113861	Monitoring	Functional	30/07/2003	6.50		AHD				1117m	West
10102718	GW024057	Irrigation	Unknown	01/11/1966	13.10		AHD				1118m	East
10119500	GW112712	Monitoring	Functional	29/11/2010	4.00		AHD				1118m	South
10044170	GW113255	Monitoring	Functional	29/11/2010	4.00		AHD				1130m	South
10122836	GW113469	Monitoring	Functional	19/01/2007	3.10		AHD				1130m	South
10107254	GW017356	Other	Non-functional	01/01/1942	30.40		AHD	Good			1131m	South East
10119238	GW112178	Monitoring	Functional	01/03/1999	30.00		AHD				1135m	North East
10088987	GW113779	Monitoring	Functional	13/11/2000	9.00		AHD				1141m	South

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
10086530	GW113777	Monitoring	Functional	13/11/2000	6.00		AHD				1142m	South
10115907	GW101640	Other	Functioning	30/07/1993	17.90		AHD			7.00	1142m	East
10123340	GW112711	Monitoring	Functional	30/11/2010	3.60		AHD				1144m	South
10092431	GW113780	Monitoring	Functional	16/11/2000	8.00		AHD				1148m	South
10087291	GW113778	Monitoring	Functional	13/11/2000	5.00		AHD				1149m	South
10043717	GW113254	Monitoring	Functional	29/11/2010	3.60		AHD				1151m	South
10088306	GW113797	Monitoring	Functional	05/05/2006	4.13		AHD				1153m	South
10127149	GW113473	Monitoring	Functional	07/07/2000	3.00		AHD				1172m	South
10101240	GW109503	Monitoring	Unknown	01/03/2007	5.20		AHD			2.24	1188m	West
10117621	GW113474	Monitoring	Functional	07/07/2009	6.00		AHD				1198m	South
10059493	GW112127	Monitoring	Functional	03/10/2001	4.50		AHD				1209m	South
10130489	GW111960	Monitoring	Functional	07/08/2012	6.00		AHD	1124		3.52	1217m	South
10090304	GW109502	Monitoring	Unknown	01/03/2007	6.40		AHD			2.18	1223m	West
10136311	GW113475	Monitoring	Functional	07/07/2009	6.00		AHD				1227m	South
10058314	GW112128	Monitoring	Functional	03/10/2001	5.50		AHD				1229m	South
10125223	GW111959	Monitoring	Functional	07/08/2012	6.00		AHD	1077		2.60	1229m	South
10101820	GW024058	Irrigation	Proposed	01/11/1966	10.30		AHD				1237m	East
10111328	GW115529	Other	Functioning	27/09/2013	15.00		AHD				1249m	East
10113535	GW115468	Other	Functioning	27/09/2013	5.00		AHD				1249m	East
10095240	GW109501	Monitoring	Unknown	01/03/2007	6.00		AHD			2.30	1251m	North West
10064880	GW112129	Monitoring	Functional	03/10/2001	5.50		AHD				1252m	South
10125885	GW105485	Other	Unknown	25/09/2003	11.50		AHD		0.500	7.20	1263m	East
10128201	GW105480	Other	Unknown	23/07/2003	13.50		AHD		1.000	5.13	1281m	East
10116779	GW115467	Other	Functioning	27/09/2013	15.00		AHD				1304m	East
10056835	GW100293	Other	Functioning	23/02/1994	18.00		AHD	Good	7.500	6.90	1326m	South East
10116525	GW115552	Monitoring	Functional	22/08/2014	4.50		AHD				1341m	South
10117639	GW112177	Monitoring	Functional	01/03/1999	30.00		AHD				1365m	North
10110733	GW115549	Monitoring	Functional	22/08/2014	6.80		AHD				1374m	South
10123354	GW112176	Monitoring	Functional	01/03/1999	30.00		AHD				1374m	North
10108526	GW115551	Monitoring	Functional	22/08/2014	6.60		AHD				1386m	South
10116254	GW115550	Monitoring	Functional	22/08/2014	9.50		AHD				1390m	South
10114659	GW115548	Monitoring	Functional	22/12/2008	4.50		AHD				1404m	South
10124470	GW109648	Monitoring	Unknown	03/05/2008	6.20		AHD	1302	0.500	5.23	1419m	North West
10119700	GW109646	Monitoring	Unknown	03/05/2008	8.20		AHD	1258	1.000	5.93	1427m	North West
10119377	GW112175	Monitoring	Functional	01/03/1999	30.00		AHD				1439m	North
10146710	GW114895	Monitoring	Functional	08/02/2013	6.00		AHD			4.20	1446m	South West
10130122	GW109649	Monitoring	Unknown	03/05/2008	7.20		AHD	869	1.000	2.95	1447m	North West

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10117357	GW105473	Monitoring	Unknown	12/06/2003	2.40		AHD				1453m	North East
10111139	GW115553	Monitoring	Functional	30/01/2009	10.50		AHD				1457m	South
10095608	GW112904	Monitoring	Functional	12/05/2011	9.00		AHD			8.10	1466m	South East
10027733	GW038046	Other	Unknown	01/11/1974	24.30		AHD	Good			1478m	South East
10058408	GW113144	Monitoring	Functional	12/05/2011	9.75		AHD				1478m	South East
10097119	GW106192	Water Supply	Functioning	10/12/2004	6.00		AHD	Good	0.500	4.00	1486m	South West
10057676	GW065460	Commercial and Industrial	Unknown	09/01/1992	12.00		AHD	Good			1491m	South
10112925	GW115632	Monitoring	Functional	08/02/2013	6.50		AHD				1502m	South West
10091437	GW113145	Monitoring	Functional	13/05/2011	9.70		AHD				1512m	South East
10104574	GW017729	Other	Non-functional	01/01/1942	30.40		AHD	Good			1564m	South East
10134929	GW042834	Other	Unknown	01/11/1976	31.10		AHD				1579m	South East
10125220	GW112184	Monitoring	Functional	01/03/1999	30.00		AHD				1583m	North
10099932	GW106693	Water Supply	Functioning	21/11/2004	11.29		AHD	Good	1.000	7.93	1607m	South East
10130488	GW111958	Monitoring	Functional	27/04/2012	6.00		AHD			3.49	1610m	South West
10125021	GW105965	Water Supply	Unknown	17/03/2004	9.50		AHD				1614m	South East
10123327	GW103691	Water Supply	Functioning	03/05/2001	9.00		AHD				1617m	South East
10061906	GW105919	Unknown	Unknown	13/05/2005			AHD				1624m	South East
10133563	GW107133	Water Supply	Unknown	14/04/2005	7.00		AHD				1626m	South
10130139	GW109270	Water Supply	Unknown	26/08/2008	11.00		AHD		2.500	2.00	1627m	South East
10072561	GW106798	Water Supply	Functioning	19/12/2004	10.00		AHD				1628m	South East
10128570	GW107134	Water Supply	Unknown	14/04/2005	7.00		AHD				1637m	South
10120682	GW106004	Water Supply	Functioning	25/03/2004	19.50		AHD	305	2.000	4.10	1639m	South
10111642	GW104057	Water Supply	Unknown	02/11/2000	14.00		AHD				1640m	South East
10091095	GW113037	Monitoring	Functional	17/11/2008	5.00		AHD				1644m	South West
10129103	GW106730	Water Supply	Functioning	28/10/2004	15.00		AHD	334	1.000	12.00	1644m	South East
10092311	GW113038	Monitoring	Functional	17/02/2009	5.00		AHD				1652m	South West
10089686	GW113039	Monitoring	Functional	17/10/2013	5.00		AHD				1657m	South West
10062241	GW106177	Water Supply	Functioning	01/01/2007	8.00		AHD		2.500	2.00	1666m	South East
10100831	GW106435	Water Supply	Functioning	20/09/2004	12.81		AHD		1.000	8.23	1669m	South East
10127721	GW107135	Water Supply	Unknown	14/04/2005	7.00		AHD				1670m	South
10055366	GW106913	Water Supply	Functioning	10/04/2005	9.50		AHD				1674m	South East
10093438	GW113036	Monitoring	Functional	17/11/2008	4.00		AHD				1674m	South West
10087546	GW114167	Monitoring	Functional	26/08/2010	5.50		AHD				1680m	South
10090443	GW113035	Monitoring	Functional	17/11/2008	5.00		AHD				1682m	South West
10112923	GW115394	Water Supply	Functioning	01/01/2004	9.50		AHD				1683m	South East

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10050719	GW105019	Other	Functioning	26/05/1993	30.00		AHD		1.890	7.80	1685m	South East
10048405	GW106537	Water Supply	Unknown	09/10/2004	10.00		AHD				1701m	South East
10125615	GW107509	Water Supply	Unknown	25/08/2005	10.00		AHD				1701m	South East
10088630	GW101759	Water Supply	Unknown	12/11/1995	10.98		AHD	Good	1.000	8.24	1702m	South East
10090830	GW114169	Monitoring	Functional	11/03/2014	9.80		AHD				1702m	South
10099638	GW108228	Water Supply	Unknown	02/09/2006	17.00		AHD				1709m	South East
10098052	GW114168	Monitoring	Functional	26/08/2010	8.70		AHD				1711m	South
10103925	GW107326	Water Supply	Functioning	01/08/2005	9.00		AHD				1719m	South East
10053530	GW106030	Water Supply	Functioning	17/03/2004	20.00		AHD	220	2.000	4.10	1731m	South
10125105	GW106985	Water Supply	Functioning	24/03/2005	159.00		AHD		0.130	14.00	1731m	South East
10110258	GW115275	Water Supply	Functioning	15/01/2016	8.00		AHD				1746m	South
10113387	GW115285	Water Supply	Functioning	15/01/2016	8.00		AHD				1746m	South
10108705	GW023419	Water Supply	Functioning	07/08/1974			AHD		0.080		1754m	South East
10117358	GW106110	Water Supply	Functioning	19/03/2004	20.50		AHD	239	2.000	4.40	1767m	South East
10129557	GW112183	Monitoring	Functional	01/03/1999	30.00		AHD				1780m	North
10117662	GW105747	Water Supply	Functioning	15/12/2003	8.23		AHD		1.000	4.88	1789m	South
10018386	GW114495	Monitoring	Functional	20/12/2010	6.15		AHD				1808m	North East
10014552	GW114496	Monitoring	Functional	20/12/2010	5.50		AHD				1826m	North East
10017347	GW114497	Monitoring	Functional	20/12/2010	5.50		AHD				1828m	North East
10131645	GW108653	Water Supply	Unknown	17/04/2007	12.00		AHD				1830m	South
10122190	GW108882	Water Supply	Unknown	30/05/2008	6.00		AHD				1833m	South
10140550	GW013629	Water Supply	Unknown	01/11/1955	21.90		AHD	0-500 ppm			1839m	South
10094476	GW111136	Water Supply	Functioning	17/12/2006	11.00		AHD			3.50	1841m	South
10125659	GW106083	Water Supply	Functioning	23/03/2004	18.90		AHD	295	3.500	1.70	1847m	South
10021331	GW104125	Other	Functioning	01/08/2000	15.70		AHD	Fresh	9.800	0.50	1867m	South
10018126	GW038009	Other	Unknown	01/09/1969	21.30		AHD	Good			1891m	South East
10024698	GW109066	Water Supply	Unknown	16/07/2008	7.50		AHD				1905m	South
10044807	GW113757	Monitoring	Functional	06/11/2006	5.00		AHD				1910m	South
10041542	GW116398	Monitoring	Functioning	27/03/2018	6.00		AHD				1914m	North East
10047010	GW113758	Monitoring	Functional	06/02/2014	4.50		AHD				1915m	South
10042308	GW113759	Monitoring	Functional	06/11/2006	4.30		AHD				1917m	South
10095674	GW116399	Monitoring	Functioning	27/03/2018	6.00		AHD				1920m	North East
10040085	GW113760	Monitoring	Functional	06/02/2014	5.00		AHD				1932m	South
10059362	GW113761	Monitoring	Functional	06/11/2006	4.50		AHD				1934m	South
10058274	GW113762	Monitoring	Functional	08/11/2006	4.30		AHD				1938m	South
10062592	GW113763	Monitoring	Functional	08/11/2006	4.30		AHD				1938m	South

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
10091445	GW113775	Monitoring	Functional	08/11/2006	5.00		AHD				1945m	South
10137887	GW116401	Monitoring	Functioning	27/03/2018	6.30		AHD				1950m	North East
10058254	GW113772	Monitoring	Functional	08/11/2006	4.30		AHD				1951m	South
10067118	GW113764	Monitoring	Functional	07/11/2006	5.00		AHD				1952m	South
10068399	GW113773	Monitoring	Functional	07/11/2006	5.00		AHD				1952m	South
10062527	GW113765	Monitoring	Functional	07/11/2006	5.00		AHD				1953m	South
10066635	GW113767	Monitoring	Functional	09/11/2006	5.50		AHD				1958m	South
10105271	GW017342	Commercial and Industrial	Unknown	01/12/1946	15.50		AHD				1961m	South West
10149438	GW024118	Water Supply	Unknown	01/01/1966	3.00		AHD	Good			1961m	South
10067565	GW113774	Monitoring	Functional	08/11/2006	5.50		AHD				1963m	South
10058897	GW113766	Monitoring	Functional	09/11/2006	5.50		AHD				1966m	South
10055421	GW106911	Other	Unknown	11/11/2004	42.60		AHD	360	1.300	10.50	1971m	North East
10134256	GW109313	Water Supply	Unknown	09/09/2008	84.00		AHD	200	1.000	23.00	1973m	South East
10117363	GW103062	Monitoring	Unknown	21/08/2000			AHD				1976m	North East
10123495	GW103065	Monitoring	Unknown	23/09/1999	5.20		AHD				1976m	North East
10123917	GW103063	Monitoring	Unknown	21/08/2000			AHD				1976m	North East
10125974	GW103068	Monitoring	Unknown	24/09/1999	5.00		AHD				1976m	North East
10128118	GW103067	Monitoring	Unknown	24/09/1999	5.00		AHD				1976m	North East
10128850	GW103066	Monitoring	Unknown	23/09/1999	4.70		AHD				1976m	North East
10129733	GW103064	Monitoring	Unknown	21/08/2000			AHD				1976m	North East
10137309	GW103058	Monitoring	Unknown	23/09/1999	6.20		AHD				1976m	North East
10125996	GW103059	Monitoring	Unknown	23/09/1999	5.50		AHD				1977m	North East
10099937	GW105940	Unknown	Unknown	20/05/2005			AHD				1979m	South
10090724	GW113776	Monitoring	Functional	08/11/2006	4.30		AHD				1983m	South
10058756	GW113768	Monitoring	Functional	06/11/2006	5.00		AHD				1994m	South
10071043	GW113769	Monitoring	Functional	06/11/2006	5.50		AHD				1994m	South
10049815	GW017684	Commercial and Industrial	Unknown	01/09/1947	14.90		AHD				1995m	South West

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Driller's Logs

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

NGIS Bore ID	Drillers Log	Distance	Direction
10055367	0.00m-2.75m SANDY CLAY,SOIL LAND FILL 2.75m-5.49m UNCONSOLIDATED ALL SANDS	560m	South East
10124250	0.00m-2.00m FILL,SILTY,GRAVELLY SAND 2.00m-7.00m SAND, LIGHT BROWN,GREY,BROWN	766m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10137387	0.00m-3.00m SANDY CLAY 3.00m-8.50m CLAY 8.50m-24.00m SHALE 24.00m-24.50m SANDSTONE GREY 24.50m-24.70m SANDSTONE GREY FRACTURED 24.70m-44.00m SANDSTONE GREY 44.00m-55.00m SANDSTONE QUARTZ 55.00m-55.50m SANDSTONE GREY FRACTURED 55.50m-82.00m SANDSTONE GREY 82.00m-85.00m SANDSTONE QUARTZ 85.00m-128.00m SANDSTONE GREY 128.00m-130.00m SANDSTONE QUARTZ 130.00m-138.00m SANDSTONE GREY 138.00m-154.00m SANDSTONE QUARTZ 154.00m-180.00m SANDSTONE GREY	774m	South West
10117513	0.00m-10.00m SAND	808m	East
10117350	0.00m-0.50m FILL, SILTY SAND,FINE TO MEDIUM GRAINED 0.50m-2.00m SAND,FINE TO MEDIUM GRAINED,BROWN,TACE OF SILT 2.00m-8.00m SAND FINE TO MEDIUM GRAINED,BROWN	829m	South
10086528	0.00m-0.10m ASHPHALT 0.10m-0.40m FILL,BRICK,SANDSTONE 0.40m-2.50m CLAY BROWN 2.50m-7.50m SHALE, RED/GREY	845m	North East
10091739	0.00m-0.10m ASHPHALT 0.10m-0.60m FILL BROWN,GRAVEL,CLAY 0.60m-2.90m CLAY BROWN ORANGE,RED,SILT MOIST 2.90m-7.45m SHALE RED,GREY, CLAY BANDS	860m	North East
10087298	0.10m-0.20m CONCRETE 0.20m-0.50m FILL BROWN,GRAVEL,CLAY,GLASS,BRICK,SANDSTONE 0.50m-2.70m CLAY RED, GREY,WHITE 2.70m-7.50m SHALE RED,WEATHERED, CLAY BANDS,MOIST	886m	North East
10091623	0.00m-0.20m CONCRETE 0.20m-3.70m SAND 3.70m-6.10m SILTY SAND 6.10m-6.50m CLAY,GRAVELLY,SANDY,MOIST,IRONSTONE,GRAVEL	896m	South
10050706	0.00m-1.82m Made Ground 1.82m-3.65m Sand Dry Water Supply 3.65m-10.97m Sand Water Supply 10.97m-11.58m Clay Sandy Peat 11.58m-12.19m Sand Grey Water Supply 12.19m-12.80m Sand Grey Dirty Water Supply 12.80m-13.71m Sand Grey Peaty Water Supply 13.71m-14.93m Sand Dirty Water Supply 14.93m-16.15m Sand Water Supply Clay Peat 16.15m-16.45m Sand Water Supply 16.45m-16.76m Clay Water Supply 16.76m-17.37m Sand Grey Clean Water Supply 17.37m-17.98m Peat	901m	South
10094950	0.00m-0.20m CONCRETE 180 mm 0.20m-1.00m SAND,GRAVELLY CLAYEY,FILL,SANDSTONE 1.00m-3.40m SAND,SILTY,MEDIUM,DENSE,MOIST 3.40m-3.50m SAND,DENSE,SATURATED,YELLOW,MINOR CLAY 3.50m-4.40m SAND,CLAYEY,LOOSE TO MED.DENSE 4.40m-4.50m CLAY,GRAVELLY SILTY,FIRM,VERY MOIST	904m	South
10088683	0.00m-0.30m CONCRETE 0.30m-1.00m SAND,GRAVELLY,SILTY,SANDSTONE AND ASH 1.00m-3.50m SAND, SILTY,M/DENSE 3.50m-4.40m SAND,GRAVELLY,DENSE,SATURATED,YELLOW 4.40m-4.80m SILTY SAND 4.80m-5.40m SAND,GRAVELLY,DENSE,SATURATED,YELLOW 5.40m-6.60m SAND,CLAYEY, MEDIUM DENSE,PALE,GREY 6.60m-7.00m CLAY,SANDY,SILTY,STIFF,MOIST	909m	South
10132198	0.00m-2.59m Made Ground 2.59m-3.04m Sand Grey 3.04m-5.02m Sand Yellow Clean 5.02m-6.40m Sand Yellow Clean Wet 6.40m-7.84m Sand Hard Cemented Very Fine 7.84m-7.92m Sand Hard Cemented 7.92m-10.51m Sand Yellow Water Supply 10.51m-11.73m Sand Dirty Water Supply 11.73m-11.81m Sand Hard Cemented 11.81m-13.56m Sand Grey Dirty Water Supply 13.56m-15.24m Sand Yellow Clean 15.24m-15.84m Clay Organic 15.84m-18.13m Sand Grey Water Supply 18.13m-20.11m Sand White Clean Water Supply 20.11m-21.10m Clay Dark Grey Water Supply	916m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10126756	0.00m-0.20m FILL 0.20m-4.50m YELLOW SAND 4.50m-6.00m LIGHT GREY SAND 6.00m-6.70m DARK BROWN PEATY SAND 6.70m-8.00m WHITE SAND 8.00m-12.20m YELLOW SAND- WATER BEARING 12.20m-13.00m BROWN SILTY SAND-WATER BEARING 13.00m-15.50m YELLOW SAND-HIGH WATER BEARING 15.50m-16.50m WHITE SAND (SILTY)-WATER BEARING 16.50m-18.00m DECOMPOSED SANDSTONE, GETTING HARDER	928m	East
10116743	0.00m-15.24m Made Ground Sand 15.24m-18.59m Clay Water Supply Sand Peaty	949m	South East
10093950	0.00m-0.20m CONCRETE 160mm 0.20m-0.40m SANDY SILT WITH GRAVEL,FILL,BROWN,SOFT,SLIGHTLY MOIST TO MOIST 0.40m-3.20m SAND,YELLOW,BROWN,LOOSE,MOIST TO SATURATED,WELL ROUNDED 3.20m-3.80m CLAY,GREY,RED,SOFT TO STIFF,MOIST, LOW TO MEDIUM PLASTICITY,WITH MINOR SAND	973m	South
10095236	0.00m-0.10m CONCRETE 120mm 0.10m-0.90m SANDY GRAVEL,FILL,BROWN,LOOSE,SLIGHTLY MOIST 0.90m-1.50m SAND,GREY TO BROWN,LOOSE TO DENSE,MOIST TO VERY MOIST 1.50m-1.90m HUMIC CEMENTED SAND (COFFEE ROCK) 1.90m-3.20m SAND,RED,BROWN TO BROWN,LOOSE TODENSE,V/MOIST TO SATURATED 3.20m-3.50m CLAY,YELLOW BROWN,VERY STIFF,MOIST,M/TO HIGH PLASTICITY/SAND	980m	South
10084386	0.00m-0.13m CONCRETE SLAB 0.13m-0.25m SAND FILL, LIGHT ORANGE BROWN 0.25m-0.85m GRAVELLY SAND,FILL,BLACK,MOIST,VERY DENSE 0.85m-1.10m GRAVELLY CLAY (FILL) 1.10m-1.20m SAND FILL RED BROWN 1.20m-2.30m SILTY SAND,FILL,MINOR CLAY 2.30m-3.30m SAND,DARK BROWN,SATURATED,M/GRAINED 3.30m-4.00m SILTY SAND LIGHT GREY 4.00m-4.80m CLAY LIGHT GREY,MOIST,MED.TO HIGH PLASTICITY	984m	South
10099657	0.00m-0.10m CONCRETE 140mm 0.10m-0.30m SANDY CLAY WITH GRAVEL,FILL,LIGHT BROWN,SOFT,MOIST 0.30m-0.50m CONCRETE 130mm 0.50m-0.70m SANDY CLAY WITH GRAVEL,FILL,BROWN,ORANGE,RED,SOFT,MOIST 0.70m-3.20m SAND,GREY,LOOSE,MOIST TO SATURATED,WELL ROUNDED,WELL GRADED 3.20m-3.40m SANDY CLAY,YELLOW,BROWN,SOFT,SATURATED 3.40m-3.80m CLAY,GREY,RED,STIFF,SLIGHTLY MOIST,LOW PLATICITY,MINOR SAND	988m	South
10059069	0.00m-5.18m Made Ground 5.18m-6.70m Sand Dry Packed 6.70m-8.83m Sand White Water Supply 8.83m-10.05m Sand 10.05m-10.97m Sand Hard Cemented 10.97m-13.10m Sand Dirty Water Supply 13.10m-14.63m Sand Grey Water Supply 14.63m-14.93m Sand Grey Peaty 14.93m-16.76m Sand Grey Water Supply 16.76m-17.98m Clay	996m	South
10100433	0.00m-0.80m SANDY SILT WITH GRAVEL,BLACK,BROWN,RED,SOFT,SLIGHTLY MOIST 0.80m-1.00m BLACK STAINED FILL 1.00m-2.80m SAND,BROWN,LOOSE TO DENSE,VERY MOIST TO SATURATED,WELL ROUNDED AND GRADED 2.80m-3.40m CLAY,LIGHT GREY,VERY STIFF,MOIST,M/H PLASTICITY,MINOR SAND	996m	South
10091813	0.00m-0.60m SANDY GRAVEL,FILL,BLACK,RED,BROWN,LOOSE,MOIST/BRICK/SANDSTONE 0.60m-0.80m SILTY SAND,BLACK,LOOSE,MOIST 0.80m-2.00m SAND,GREY/BROWN,LOOSE,MOIST TO SATURATED,WELL ROUNDED 2.00m-3.60m SILTY SAND,ORANGE,BROWN TO BLACK,SATURATED,WITH PEAT 3.60m-4.00m SANDY CLAY,LIGHT GREY,MOIST,HIGH PLASTICITY	997m	South
10096335	0.00m-1.00m GRAVELY SAND,FILL,BROWN/RED,LOOSE,MOIST,CONCRETE,SANDSTONE 1.00m-2.40m SAND,GREY TO ORANGE, BROWN,LOOSE,MOIST TO SATURATED 2.40m-2.80m SILTY SAND,BLACK,LOOSE,SATURATED 2.80m-3.80m SAND,BROWN,LOOSE,SATURATED,WELL ROUNDED,WELL GRADED 3.80m-4.20m CLAY,GREY,VERY STIFF,SLIGHTLY MOIST TO MOIST, LOW PLASTICITY.	998m	South
10118193	0.00m-0.75m SANDSTONE ROCKS & FILL 0.75m-2.00m SAND AND RUBBISH 2.00m-5.00m SAND AND HEAVY PEAT 5.00m-13.00m SAND 13.00m-19.90m SAND WITH PEAT LAYERS 19.90m-20.80m SANDSTONE GREY	1000m	South
10124968	0.00m-0.20m CONCRETE SLAB 0.20m-0.60m SAND,FILL,MOIST,BROWN 0.60m-2.00m SILTY SAND,MOIST,BROWN,SLIGHT ODOUR 2.00m-4.00m SANDY SILT,SATURATED,L/PLASTICITY,GREY BLACK 4.00m-4.50m SANDY CLAY,MOIST,M/PLASTICITY 4.50m-5.00m CLAY,HIGH PLASTICITY,VERY MOIST,GREY	1002m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10134095	0.00m-0.25m CONCRETE SLAB 0.25m-0.90m SAND, FILL,DRY,GREY,NO ODOUR 0.90m-2.80m SILTY SAND,GRAVEL BITS,VERY MOIST,BROWN 2.80m-3.40m SANDY SILT, GRAVEL BITS 3.40m-4.00m SANDY SILT,MOIST,DARK BROWN	1002m	South
10091738	0.00m-1.00m SANDY GRAVEL (FILL),BLACK/BROWN,LOOSE,MOIST 1.00m-2.50m SAND,GREY,LOOSE,VERY MOIST TO SATURATED WELL ROUNDED & GRADED 2.50m-3.30m SILTY SAND,BROWN,TO GREY,VERY DENSE,SATURATED 3.30m-4.20m SAND,VERY DENSE,BROWN,SATURATED,COFFEE ROCK 4.20m-4.50m SILTY CLAY,DARK GREY,VERY STIFF,MOIST,LOW PLASTICITY	1006m	South
10088826	0.00m-0.12m CONCRETE SLAB 0.12m-0.60m GRAVELLY SILT,DARK BROWN,DRY,LOOSE 0.60m-1.20m GRAVELLY CLAY,FILL,ORANGE BROWN 1.20m-2.30m SILTY SAND,LIGHT GREY/BROWN 2.30m-2.60m CLAY DARK GREY,VERY MOIST 2.60m-3.40m SANDY CLAY DARK GREY 3.40m-4.50m CLAY LIGHT BROWN,TO L/GREY 4.50m-4.80m CLAY RED BROWN,MOIST,L/PLASTICITY,HARD	1007m	South
10094858	0.00m-1.20m SANDY GRAVEL,BLACK,WHITE,ORANGE,LOOSE,MOIST WITH ASH,CONCRETE,BRICK AND SANDSTONE 1.20m-2.80m SAND,GREY TO ORANGE,BROWN,LOOSE TO DENSE,MOIST TO SATURATED,WELL GRADED 2.80m-3.00m CLAYEY SAND,ORANGE,BROWN,DENSE,SATURATED,WELL GRADED 3.00m-3.50m CLAY,GREY/RED,VERY STIFF,MOIST,LOW PLASTICITY.	1027m	South
10084104	0.00m-0.10m CONCRETE 150mm 0.10m-0.30m SANDY GRAVEL,LOOSE,SLIGHTLY MOIST 0.30m-3.00m SAND,GREY,LOOSE,MOIST TO SATURATED,WELL,ROUNDED AND GRADED 3.00m-3.50m CLAY,LIGHT GREY,VERY STIFF,SLIGHTLY MOIST TO MOIST,M/H PLASTICITY	1028m	South
10089551	0.00m-9.50m SAND	1035m	South East
10055626	0.00m-2.60m BLACK SANDY CLAY/ROCK FILL 2.60m-4.60m DARK GREY SANDY CLAY/GRAVEL 4.60m-6.60m LT. BROWN FINE SAND 6.60m-8.60m LIGHT BROWN FINE SAND 8.60m-10.60m WHITE FINE SAND 10.60m-12.60m WHITE FINE SAND 12.60m-14.60m WHITE SANDY CLAY 14.60m-16.60m BROWN SANDY CLAY 20% 16.60m-18.60m BROWN SANDY CLAY 50% 18.60m-20.60m BROWN SANDY CLAY 70% 20.60m-22.60m PEAT 22.60m-24.60m DENSE PEAT 24.60m-26.60m DENSE PEAT 26.60m-28.60m LIGHT PEAT 28.60m-30.60m GREY CLAY 30.60m-32.60m GREY CLAY 32.60m-34.60m SANDY CLAY 34.60m-35.60m WEATHERED GREY TO HARD SANDSTONE	1057m	South East
10029580	0.00m-14.50m BOTANY BAY SANDS	1072m	South East
10001308	0.00m-2.74m Made Ground 2.74m-12.19m Sand Light Brown Water Supply 12.19m-13.72m Sand Dirty Water Supply 13.72m-16.76m Sand Dirty Clay Bands Interlayere Water Supply 16.76m-17.98m Sand Water Supply 17.98m-22.71m Sand White Water Supply 22.71m-24.38m Clay Grey	1111m	South East
10102718	0.00m-1.52m Topsoil 0.00m-1.52m Loam Sandy 1.52m-3.04m Sand Dark Brown 3.04m-6.09m Sand Yellow Water Supply 6.09m-11.27m Sand Dark Brown Wet Water Supply 11.27m-11.88m Sand Light Brown Wet Water Supply 11.88m-13.10m Sand Light Brown Wet Water Supply 11.88m-13.10m Clay Veined Water Supply	1118m	East
10107254	0.00m-30.48m Sand Water Supply	1131m	South East
10115907	0.00m-4.30m Topsoil with Fill 4.30m-6.50m Light Grey Sand 6.50m-7.00m Brown Sand 7.00m-9.60m Yellow Silty Sand 9.60m-10.50m Light Brown Sand WB 10.50m-14.80m White Sand WB 14.80m-16.60m Yellow Silty Sand 16.60m-17.90m Decomposed Sandstone	1142m	East
10130489	0.00m-1.60m FILL, SILTY SAND,GREY/BROWN 1.60m-2.80m CLAY,DENSE FINE GRAIN,YELLOW BROWN 2.80m-6.60m SAND,SILTY,DENSE LIGHT BROWN	1217m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10125223	0.00m-1.20m FILL, DENSE FINE GRAINED/BROWN 1.20m-2.20m CLAY SILTY,DENSE,RED/BROWN 2.20m-3.00m CLAY SILTY SANDY,DENSE, DARK BROWN 3.00m-3.50m SAND SILTY,DENSE FINE GRAINED 3.50m-5.60m SAND,DENSE,FINE GRAINED L/BROWN 5.60m-6.00m CLAY,DENSE,FINE GRAINED RED/YELLOW	1229m	South
10101820	0.00m-1.52m Sand Gravel 1.52m-4.57m Sand Dry 4.57m-6.09m Sand Grey Dry 6.09m-7.62m Sand White Dry 7.62m-10.36m Sandstone Soft Firm	1237m	East
10125885	0.00m-0.50m BITUMEN/ROAD BASE FILL 0.50m-1.20m BROWN SAND FILL 1.20m-3.60m BRICK HILL/ROAD BASE 3.60m-9.50m YELLOW SAND 9.50m-11.50m RED/WHITE DECOMPOSED SANDSTONE	1263m	East
10128201	0.00m-0.50m BITUMEN,FILL 0.50m-1.20m BROWN SAND 1.20m-4.60m YELLOW SAND 4.60m-5.90m YELLOW SAND WITH ORANGE SILT 5.90m-8.60m YELLOW SAND/DECOM. SANDSTONE 8.60m-10.30m YELLOW SAND/ORANGE SILT 10.30m-13.50m RED,WHITE,DECOMPOSED SANDSTONE	1281m	East
10056835	0.00m-0.80m FILL 0.80m-12.80m YELLOW SAND 12.80m-15.20m WHITE SILTY SAND 15.20m-18.00m YELLOW SAND W.B. 18.00m-19.00m YELLOW SILTY SAND 19.00m-20.00m DECOMPOSED SANDSTONE	1326m	South East
10124470	0.00m-2.90m FILL,BROWN/GREY,LOOSE GRAVEL,CONCRETE,SAND 2.90m-4.90m SILTY CLAY,LT GREY,MOTT.BROWN HIGH PLASTICITY 4.90m-5.80m SILTY SAND,LT GREY,MED COURSE GRAINED 5.80m-6.20m SANDSTONE,RED,BROWN,WEATHERED,CLAY BANDS	1419m	North West
10119700	0.00m-0.80m FILL,LT GREY,SAND,CONCRETE,BRICK,METAL FRAG. 0.80m-2.80m SILTY CLAY,BROWN,GREY,MED PLASTICITY 2.80m-5.00m CLAYEY SAND,GREY/DARK GREY 5.00m-8.00m SILTY SAND,LT GREY/RED 8.00m-8.20m SANDSTONE,RED,BROWN,WEATHERED,CLAY BANDS	1427m	North West
10146710	0.00m-0.15m CONCRETE 0.15m-1.20m FILL, SANDY CLAY WITH GRAVELS 1.20m-1.80m SAND YELLOW WHITE 1.80m-2.40m SAND YELLOW MEDIUM GRAINED 2.40m-2.90m SAND LIGHT BROWN MED. GRAINED 2.90m-6.00m SAND GREY WHITE BECOM. SATURATED AT 4.5m	1446m	South West
10130122	0.00m-4.80m FILL,GREY,BROWN,GRAVEL,CLAY,SILT 4.80m-5.90m SILTY SAND,LT GREY,RED,MED COARSE GRAINED 5.90m-7.20m SANDSTONE RED BROWN,WEATHERED WITH CLAY BANDS	1447m	North West
10117357	0.00m-2.00m SAND,GREY/BROWN,MEDIUM GRAINED 2.00m-2.40m SANDSTONE,BEDROCK	1453m	North East
10027733	0.00m-0.30m Sand 0.30m-0.91m Rubble 0.91m-9.14m Sand 9.14m-12.19m Sand Water Supply 12.19m-13.71m Sand White Water Supply 13.71m-18.89m Sand Water Supply 18.89m-19.81m Sand Clay Bands 19.81m-24.38m Sand White Water Supply 24.38m-24.39m Clay Sandy	1478m	South East
10097119	0.00m-0.30m topsoil 0.30m-2.20m sand, yellow 2.20m-2.30m rock, coffee 2.30m-4.50m sand, brown 4.50m-6.00m sand, grey	1486m	South West
10104574	0.00m-30.48m Sand Water Supply	1564m	South East
10134929	0.00m-1.22m Made Ground 1.22m-10.36m Sand White 10.36m-21.95m Sand White Light Water Supply 21.95m-23.16m Peat Sand Water Supply 23.16m-29.87m Sand Grey Water Supply 29.87m-30.48m Sand Grey Clay Water Supply 30.48m-31.09m Clay Grey	1579m	South East
10099932	0.00m-11.29m sand	1607m	South East
10130488	0.00m-0.32m CONCRETE 0.32m-1.40m FILL, LOOSE,DARK GREY/BLACK CLAYEY SAND AND SANDSTONE 1.40m-6.00m SAND, LOOSE WHITE FINE GRAINED	1610m	South West

NGIS Bore ID	Drillers Log	Distance	Direction
10125021	0.00m-9.50m SAND	1614m	South East
10123327	0.00m-9.00m SAND	1617m	South East
10133563	0.00m-7.00m sand	1626m	South
10072561	0.00m-10.00m sand	1628m	South East
10128570	0.00m-7.00m sand	1637m	South
10120682	0.00m-0.30m fill 0.30m-10.80m sand 10.80m-11.50m sand, peat 11.50m-16.50m sand 16.50m-17.00m sand, peat 17.00m-19.00m sand 19.00m-21.00m peat 21.00m-23.20m peat, sand	1639m	South
10111642	0.00m-1.00m SANDY TOPSOIL 1.00m-2.00m DIRTY WHITE SAND 2.00m-3.00m LIGHT BROWN SAND 3.00m-7.00m LIGHT YELLOW SAND 7.00m-11.00m WHITE SAND 11.00m-12.00m WHITE SAND,BLACK PEAT 12.00m-13.00m WHITE SAND 13.00m-14.00m ROCK,ORANGE FATTY SANDS & CLAY	1640m	South East
10129103	0.00m-15.00m sand	1644m	South East
10100831	0.00m-12.81m sand, uncosolidated	1669m	South East
10127721	0.00m-7.00m Sand	1670m	South
10055366	0.00m-9.50m Sand	1674m	South East
10050719	0.00m-0.30m SANDY TOPSOIL 0.30m-6.50m FILL,SAND,BRICKS 6.50m-9.60m LIGHT BROWN SAND 9.60m-18.00m WHITE BEACH SAND 18.00m-24.00m YELLOW SAND 24.00m-26.50m YELLOW SAND/SILTY 26.50m-27.50m YELLOW SAND MORE SILTY 27.50m-30.00m SOFT SANDSTONE	1685m	South East
10048405	0.00m-10.00m sand	1701m	South East
10125615	0.00m-10.00m sand	1701m	South East
10088630	0.00m-10.98m Unconsolidated Sand	1702m	South East
10099638	0.00m-17.00m sand	1709m	South East
10103925	0.00m-9.00m sand	1719m	South East
10053530	0.00m-1.00m fill 1.00m-4.00m sand, small rocks 4.00m-8.80m sand 8.80m-8.90m peat 8.90m-9.70m sand 9.70m-11.30m peat & sand 11.30m-13.10m sand 13.10m-13.20m peat 13.20m-14.70m sand 14.70m-14.80m peat 14.80m-19.90m sand 19.90m-20.40m clay 20.40m-20.50m sandstone	1731m	South
10125105	0.00m-0.30m Topsoil 0.30m-0.60m Sandstone, weathered 0.60m-7.00m Sandtone, with soft bands 7.00m-159.00m Sandstone, with Shale bands	1731m	South East
10117358	0.00m-1.80m fill 1.80m-9.00m sand 9.00m-10.50m sand, peat 10.50m-21.00m sand 21.00m-23.20m peat heavy	1767m	South East
10117662	0.00m-8.23m sand, unconsolidated	1789m	South

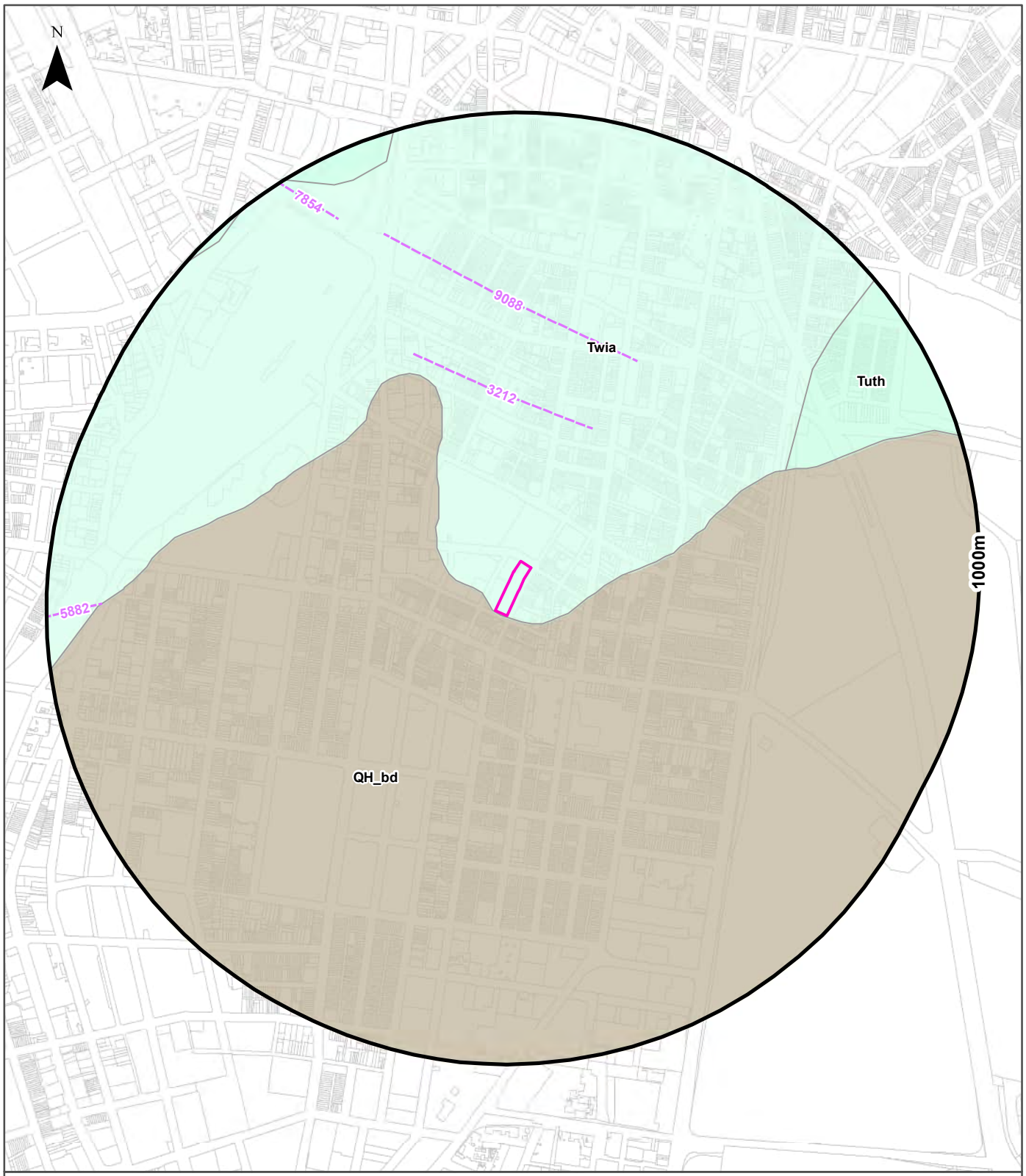
NGIS Bore ID	Drillers Log	Distance	Direction
10018386	0.00m-0.20m CONCRETE 0.20m-0.30m ROADBASE 0.30m-2.90m SANDSTONE,GREY MED TO HIGH STRENGTH 2.90m-3.10m SANDSTONE GREY LOW STRENGTH 3.10m-6.15m SANDSTONE GREY MED TO HIGH STRENGTH	1808m	North East
10014552	0.00m-0.20m CONCRETE 0.20m-0.30m ROADBASE 0.30m-5.50m SANDSTONE HIGH STRENGTH	1826m	North East
10017347	0.00m-0.20m CONCRETE 0.20m-0.30m ROADBASE 0.30m-6.90m SANDSTONE,BROWN MED. TO HIGH STRENGTH 6.90m-7.20m SILTSTONE 7.20m-10.00m SANDSTONE GREY	1828m	North East
10131645	0.00m-12.00m sand	1830m	South
10140550	0.00m-0.60m Topsoil Sandy 0.60m-12.19m Sand White Some Hard Cemented 12.19m-16.76m Sand 16.76m-16.91m Clay Seams 16.91m-21.64m Sand Water Supply 21.64m-21.94m Peat	1839m	South
10125659	0.00m-0.50m fill 0.50m-11.20m sand 11.20m-11.30m peat 11.30m-19.20m sand 19.20m-20.00m peat siff 20.00m-20.10m sandstone,	1847m	South
10021331	0.00m-1.00m SAND,LT,BROWN,LOAMY 1.00m-5.30m SAND,LT,BROWN 5.30m-8.10m SAND,LT BROWN 8.10m-14.20m PEAT,BLACK 14.20m-15.20m SAND, WHITE 15.20m-18.00m PEAT,BLACK 18.00m-22.00m CLAY,GREY,SANDY	1867m	South
10018126	0.00m-3.65m Sand Rubble 3.65m-4.87m Sand Hard Cemented 4.87m-8.53m Sand 8.53m-10.97m Sand 8.53m-10.97m Clay Sandy Bands 10.97m-12.19m Sand Clean 12.19m-21.33m Sand Clean Water Supply 21.33m-22.86m Clay Sandy	1891m	South East
10105271	0.00m-0.30m Made Ground 0.30m-2.74m Sand Peaty 2.74m-2.89m Peat 2.89m-7.31m Sand Grey Oozy Wet 7.31m-10.05m Sand Water Supply 10.05m-13.25m Sand Grey Water Supply 13.25m-14.17m Peat 14.17m-14.32m Clay Grey 14.32m-15.54m Sand Grey Water Supply	1961m	South West
10149438	0.00m-0.91m Sand Black 0.91m-3.04m Sand White Water Supply	1961m	South
10055421	0.00m-0.40m BLACK SAND ,CLAY 0.40m-0.80m DARK GREY SHALE 0.80m-2.40m DARK GREY SAND 2.40m-3.30m DARK GREY SANDY CLAY 3.30m-6.60m GREY SANDSTONE 6.60m-8.10m BROWN SANDSTONE 8.10m-9.40m GREY SANDSTONE 9.40m-9.60m GREY SHALE 9.60m-16.50m GREY SANDSTONE 16.50m-17.10m GREY SANDSTONE FRACTURED 17.10m-27.40m LT GREY SANDSTONE 27.40m-27.50m GREY CLAY 27.50m-33.50m LT GREY SANDSTONE 33.50m-34.10m DARK GREY SHALE 34.10m-42.60m GREY SANDSTONE	1971m	North East
10117363	0.00m-4.10m FILL 4.10m-6.20m SAND	1976m	North East
10123495	0.00m-4.00m fill 4.00m-6.00m sand	1976m	North East
10123917	0.00m-3.50m FILL 3.50m-5.00m SAND	1976m	North East
10125974	0.00m-3.90m FILL 3.90m-5.00m SANDSTONE	1976m	North East

NGIS Bore ID	Drillers Log	Distance	Direction
10128118	0.00m-4.00m fill 4.00m-4.80m sand 4.80m-5.00m sandstone	1976m	North East
10128850	0.00m-4.70m fill 4.70m-6.00m sandstone	1976m	North East
10129733	0.00m-3.60m FILL 3.60m-5.00m SAND	1976m	North East
10137309	0.00m-5.00m FILL 5.00m-6.20m SAND	1976m	North East
10125996	0.00m-5.00m FILL 5.00m-6.00m SAND	1977m	North East
10049815	0.00m-2.43m Sand Peaty Fossils:peat 2.43m-6.40m Sand White Water Supply 6.40m-6.70m Sand Hard Cemented 6.70m-10.05m Sand Light Yellow Water Supply 10.05m-10.66m Clay White Grey 10.66m-11.58m Sand Grey Water Supply 11.58m-12.19m Clay Grey Some Peaty 12.19m-14.93m Sand Grey Water Supply	1995m	South West

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

61 Marlborough Street, Surry Hills, NSW 2010



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: 05 September 2025

Geology

61 Marlborough Street, Surry Hills, NSW 2010

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
QH_bd	Coastal deposits - dune facies	Marine-deposited and aeolian-reworked coastal sand dunes.	/Coastal deposits//Coastal deposits - dune facies//	Holocene (base) to Now (top)	Sand	2m	South
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	608m	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
3212	Dyke or vein	Unknown		333m	North
9088	Dyke or vein	Unknown		514m	North East
7854	Dyke or vein	Unknown		864m	North West
5882	Dyke or vein	Unknown		876m	West

Fold axes within the dataset buffer:

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

Marker beds within the dataset buffer:

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

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

61 Marlborough Street, Surry Hills, NSW 2010

Naturally Occurring Asbestos Potential

Naturally Occurring Asbestos Potential within the dataset buffer:

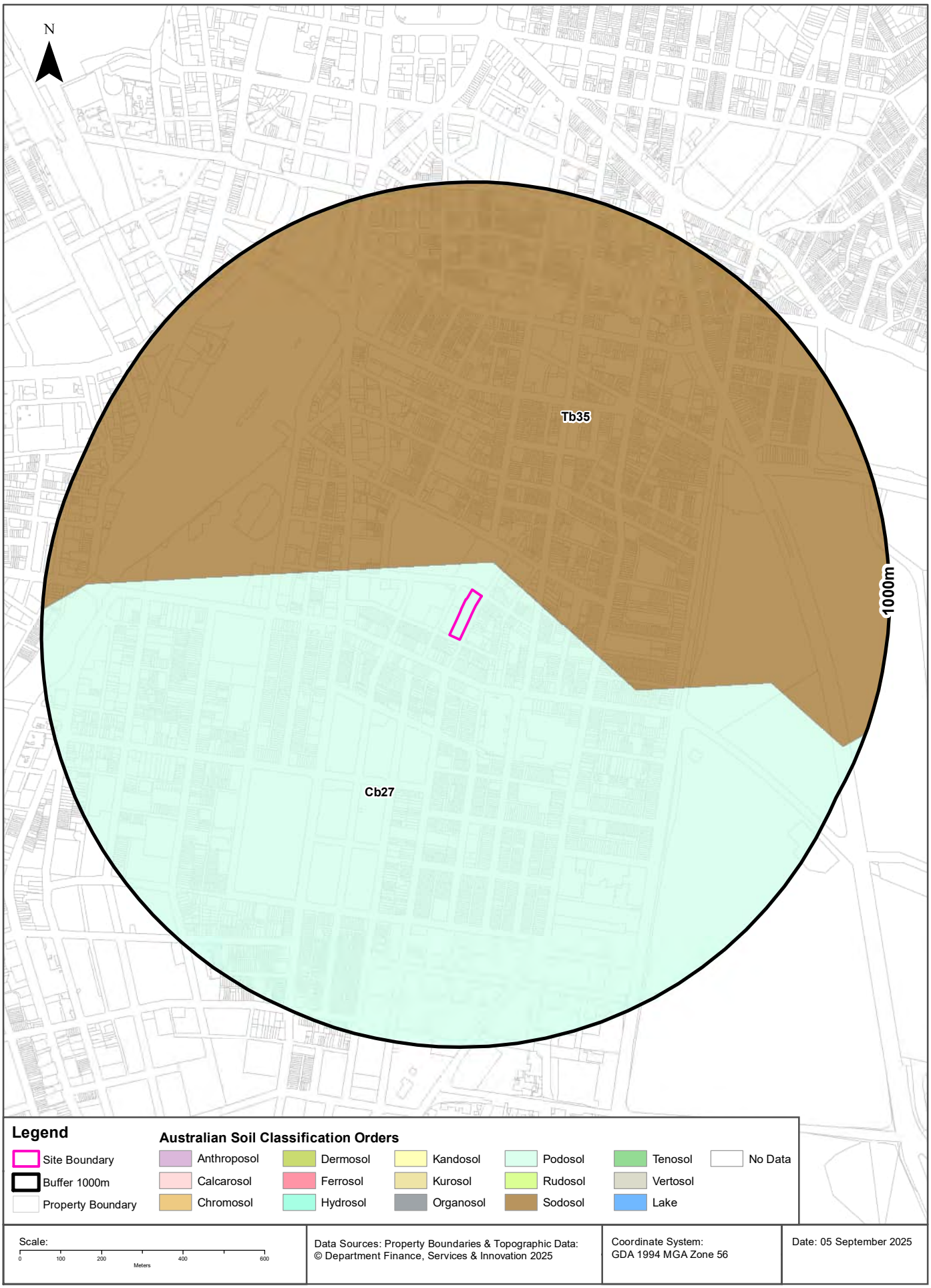
Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

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

61 Marlborough Street, Surry Hills, NSW 2010



Soils

61 Marlborough Street, Surry Hills, NSW 2010

Atlas of Australian Soils

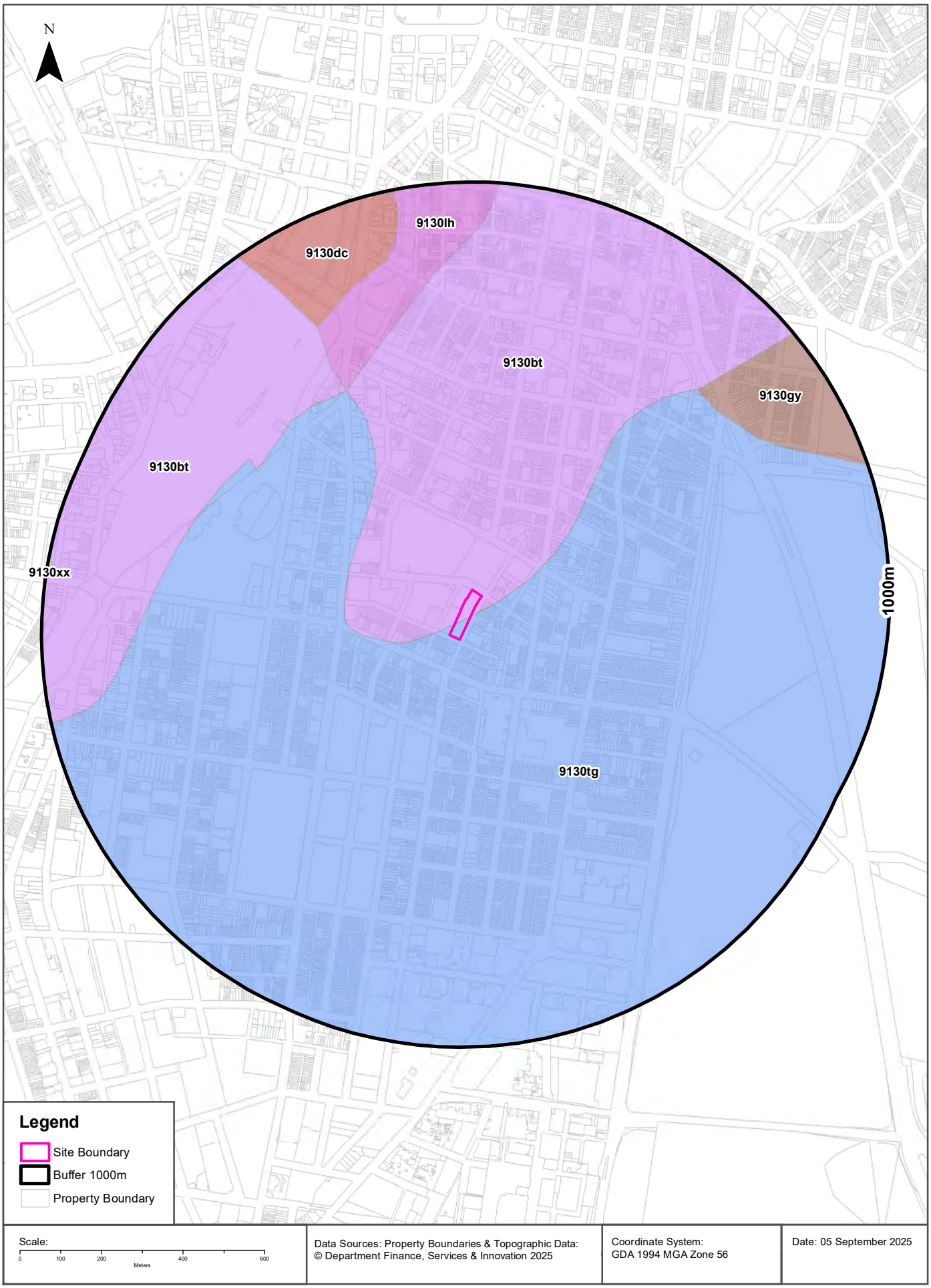
Soil mapping units and Australian Soil Classification orders within the dataset buffer:

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Cb27	Podosol	Coastal sand plains and dunes, lagoons, and swampy areas: chief soils are leached sands (Uc2.3 and Uc2.2). Associated are dunes of siliceous sands (Uc1.2) and/or calcareous sands (Uc1.I) fringing the coastline; and swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Unit Cb27 has similarities with units Cb28 and Ca6.	0m	On-site
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.	67m	North

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

61 Marlborough Street, Surry Hills, NSW 2010



Soil Landscapes of Central and Eastern NSW

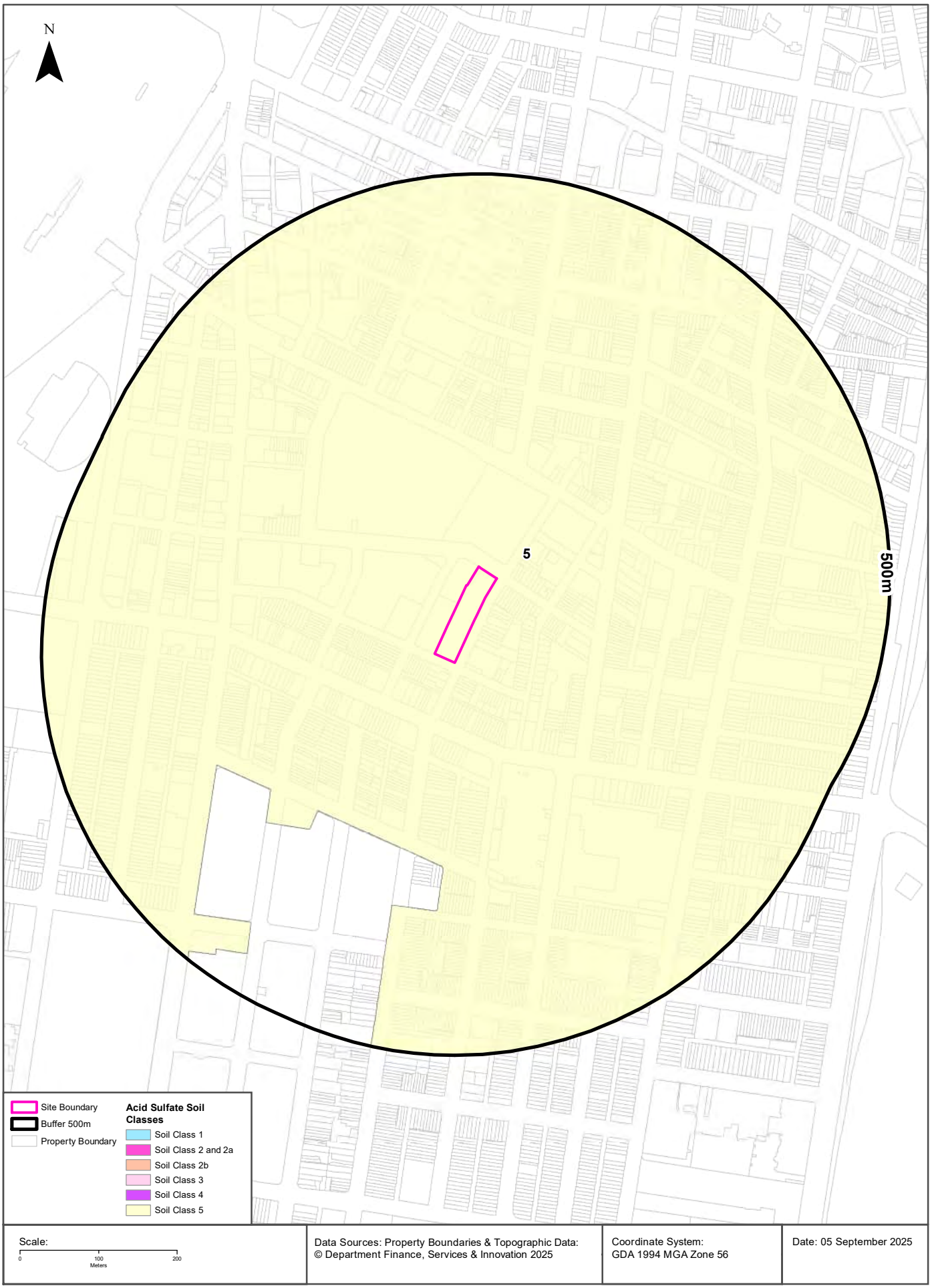
Soil Landscapes of Central and Eastern NSW within the dataset buffer:

Soil Code	Name	Distance	Direction
9130bt	Blacktown	0m	On-site
9130tg	Tuggerah	0m	On-site
9130lh	Lucas Heights	579m	North
9130gy	Gymea	732m	North East
9130dc	Deep Creek	748m	North
9130xx	Disturbed Terrain	991m	West

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

61 Marlborough Street, Surry Hills, NSW 2010



Acid Sulfate Soils

61 Marlborough Street, Surry Hills, NSW 2010

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	Sydney Local Environmental Plan 2012

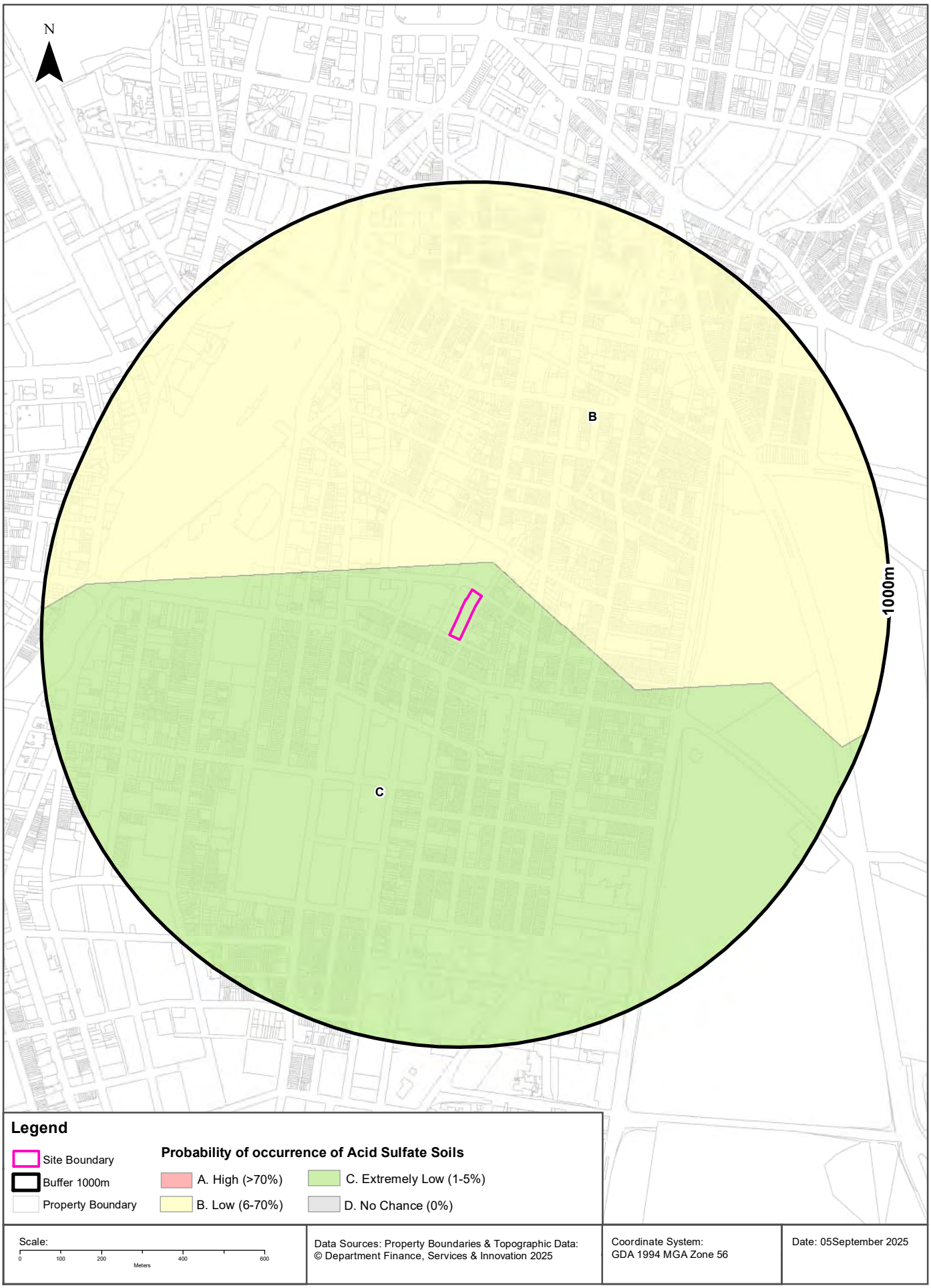
If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
None				

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Atlas of Australian Acid Sulfate Soils

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Acid Sulfate Soils

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Atlas of Australian Acid Sulfate Soils

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

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site
B	Low Probability of occurrence. 6-70% chance of occurrence.	67m	North

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

61 Marlborough Street, Surry Hills, NSW 2010

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

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Mining Subsidence Districts

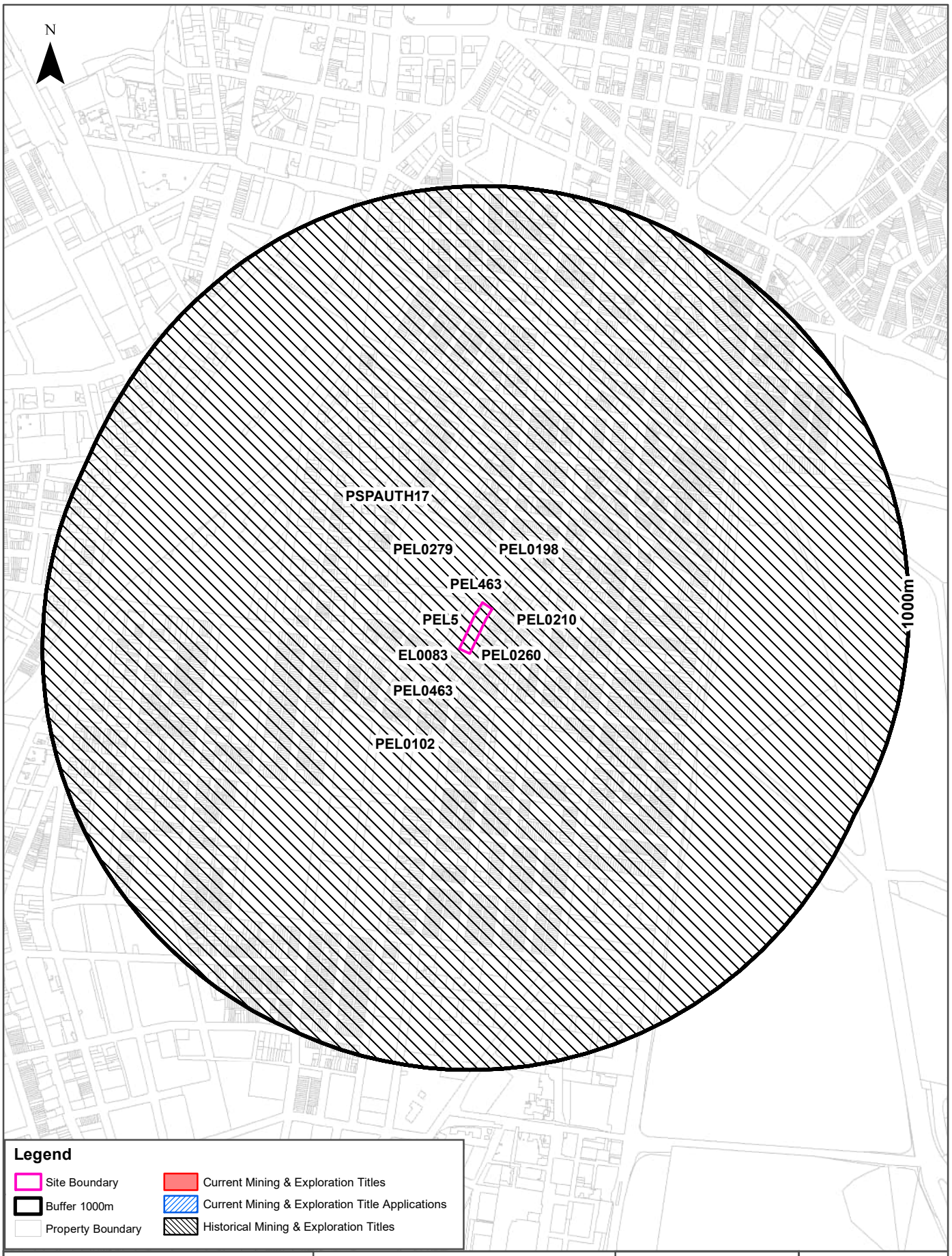
Mining Subsidence Districts within the dataset buffer:

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

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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:

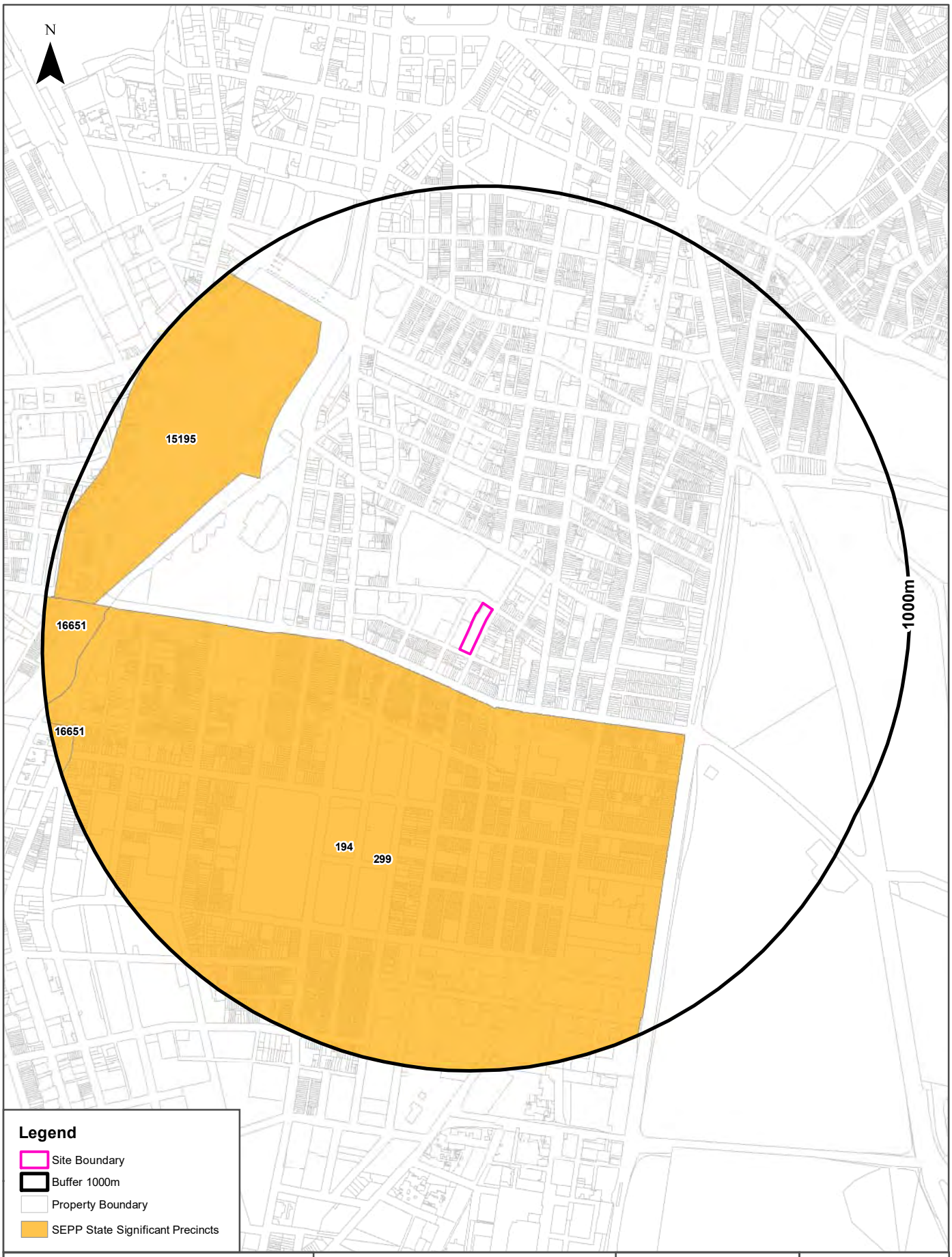
Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
PEL0210	THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD			PETROLEUM	Petroleum	0m	On-site
PEL463	DART ENERGY (APOLLO) PTY LTD	20081022	20130227	MINERALS		0m	On-site
EL0083	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	19670201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

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

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SEPP State Significant Precincts

61 Marlborough Street, Surry Hills, NSW 2010



State Environmental Planning Policy

61 Marlborough Street, Surry Hills, NSW 2010

State Significant Precincts

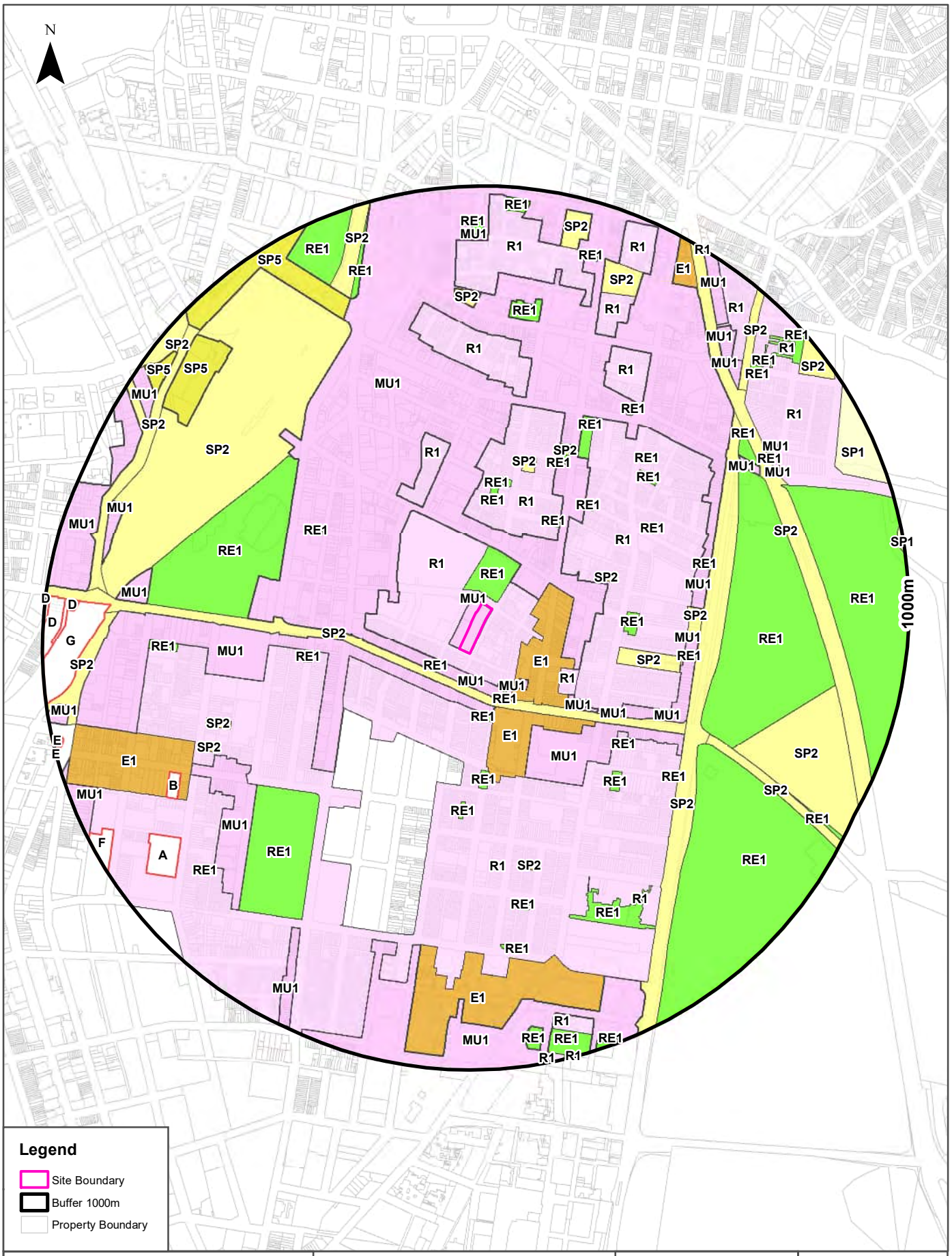
What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
299		State Environmental Planning Policy (Precincts—Central River City) 2021	02/12/2021	01/03/2022	01/03/2022		93m	South West
194	Redfern-Waterloo	State Environmental Planning Policy (Precincts—Central River City) 2021	02/12/2021	01/03/2022	01/03/2022		93m	South West
15195	Bays Precinct	State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	09/12/2022	09/12/2022	08/09/2023	State Environmental Planning Policy Amendment (Stage 1 Bays West Precinct) 2022	613m	North West
16651		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	15/12/2023	15/12/2023	15/12/2023	State Environmental Planning Policy Amendment (Redfern-North Eveleigh Paint Shop Sub-precinct) 2023	846m	West

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

61 Marlborough Street, Surry Hills, NSW 2010



Environmental Planning Instrument

61 Marlborough Street, Surry Hills, NSW 2010

Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	0m	On-site
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		0m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		20m	North
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	44m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		53m	South West
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	61m	North
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		73m	West
E1	Local Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	90m	East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	93m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		113m	South East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	116m	South East
R1	General Residential		Sydney Local Environmental Plan 2012	18/02/2022	18/02/2022	12/01/2024	Amendment No 75	121m	South
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	130m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		135m	South

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
E1	Local Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	141m	South
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		177m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		186m	North East
R1	General Residential		Sydney Local Environmental Plan 2012	12/12/2014	12/12/2014	12/01/2024	Amendment No 9	212m	South East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	224m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	11/04/2014	11/04/2014	12/01/2024	Amendment No 5	238m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		243m	North East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	255m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	11/04/2014	11/04/2014	12/01/2024	Amendment No 5	261m	North
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		271m	East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		273m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		279m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		287m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		318m	East
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		319m	East
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		331m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		332m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		350m	West
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	354m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		355m	South
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	381m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		383m	North East
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		402m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		408m	South East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		416m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		417m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		418m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		442m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		463m	West
SP2	Infrastructure	Health Services Facilities	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		466m	East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	470m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		471m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		473m	North East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	474m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		487m	South West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		499m	South East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		504m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		506m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		509m	North East
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		514m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		552m	East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		562m	South East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		569m	North East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	572m	South West
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		574m	West
SP2	Infrastructure	Railways	Sydney Local Environmental Plan 2012	14/08/2020	14/08/2020	12/01/2024	State Environmental Planning Policy Amendment (Western Gateway Sub-precinct) 2020	581m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		589m	South East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		598m	North East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		600m	South East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		602m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		606m	South East
SP2	Infrastructure	Community Facility	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		627m	South West
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		664m	East
E1	Local Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	671m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		675m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		687m	North
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	690m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		696m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		699m	South
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		701m	North East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	707m	South
E1	Local Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	707m	South
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		708m	South
SP2	Infrastructure	Public Administration Building	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		711m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		711m	South East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		715m	South East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		717m	East
B	Business Zone - Local Centre		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		732m	South West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		740m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		753m	East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	754m	North East
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		754m	North East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		756m	North East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	757m	North East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	758m	West
SP5	Metropolitan Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	760m	North West
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	771m	South West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		778m	South East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	790m	North East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		792m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		795m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		796m	South West
SP2	Infrastructure	Railways	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		797m	North
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		799m	North
A	Residential Zone - Medium Density Residential		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		807m	South West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		815m	North East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	817m	North East
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		823m	West
SP5	Metropolitan Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	827m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		838m	North East
G	Special Purposes Zone - Infrastructure		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		843m	West

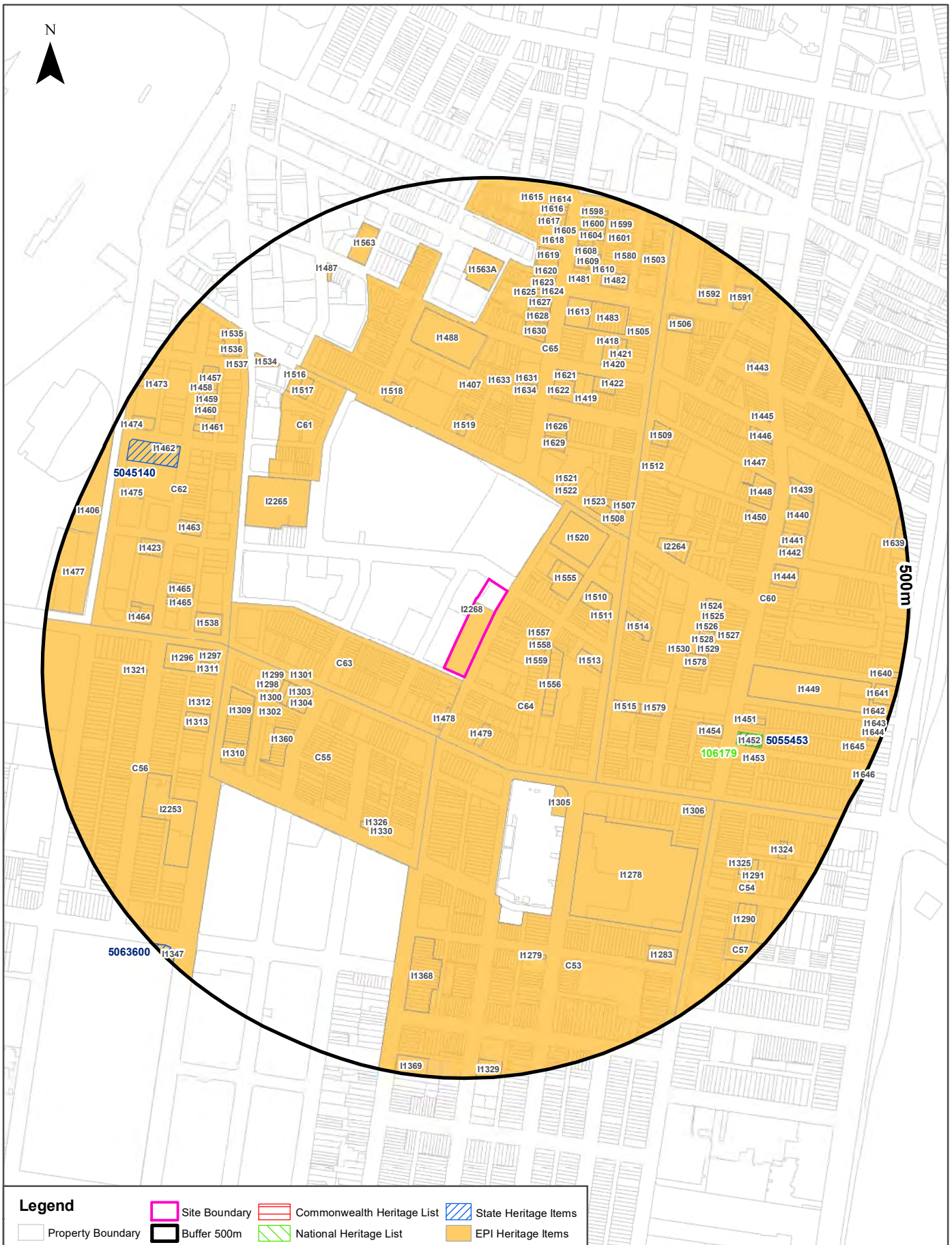
Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		847m	North
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		855m	North West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		865m	North
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	868m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		871m	North East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	872m	West
SP2	Infrastructure	Water Supply System	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		877m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		878m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		882m	North East
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		885m	North
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		886m	South
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	886m	North
SP1	Special Activities	Defence	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		890m	North East
E1	Local Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	892m	North East
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	901m	West
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	903m	North
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		905m	South
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	911m	North West
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		918m	West

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		920m	South
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		923m	North East
SP2	Infrastructure	Educational Establishment	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		927m	North East
SP5	Metropolitan Centre		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	928m	North West
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	929m	South West
F	Special Purposes Zone - Community		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		935m	South West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		943m	North
MU1	Mixed Use		Sydney Local Environmental Plan 2012	24/02/2023	26/04/2023	12/01/2024	State Environmental Planning Policy Amendment (Land Use Zones) 2023	944m	West
SP2	Infrastructure	Classified Road	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		948m	North West
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		953m	West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		973m	South
E	Business Zone - Commercial Core		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		974m	West
RE1	Public Recreation		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		977m	South
SP1	Special Activities	Recreation Facility (Major)	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		985m	East
E	Business Zone - Commercial Core		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		992m	West
R1	General Residential		Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	12/01/2024		994m	South
D	Business Zone - Mixed Use		State Environmental Planning Policy (Precincts—Eastern Harbour City) 2021	02/12/2021	01/03/2022	15/12/2023		999m	West

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

61 Marlborough Street, Surry Hills, NSW 2010



Heritage

61 Marlborough Street, Surry Hills, NSW 2010

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
106179	Holy Trinity Greek Orthodox Church	626-630 Bourke St, Surry Hills NSW	1/12/036/0732	Historic	Nomination now ineligible for PPAL		337m	East

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
5055453	Holy Trinity Greek Orthodox Church	626-630 Bourke Street Surry Hills	SYDNEY	28/05/2010	01816	2316	337m	East
5045140	Cleveland House	146-164 Chalmers Street Surry Hills	SYDNEY	02/04/1999	00065	259	407m	North West
5063600	Redfern Park and Oval	Redfern	SYDNEY	10/08/2018	02016	3199	487m	South West

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
I2268	Former David Jones Factory	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	05/04/2024	0m	On-site
C64	High Holborn Street	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	0m	On-site
C63	Goodlet Street	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	5m	West
I1478	Former commercial building 'Matis Pharmacy'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	42m	South
I1555	Our Lady of Mercy Convent	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	52m	North East
I1557	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	55m	East

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I1558	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	56m	East
I1479	Former Holocaust Museum	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	61m	South
I1559	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	63m	South East
I1520	St Peter's Roman Catholic Church group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	80m	North East
C53	Baptist Street	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	24/08/2018	24/08/2018	05/04/2024	81m	South
C55	Cooper Street	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	81m	South West
I1556	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	81m	South East
I1510	Former Premier Picture Theatre	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	90m	East
I1511	Shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	111m	East
I1513	Former Surry Hills Post Office	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	115m	East
C65	Little Riley Street	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	127m	North
C60	Moore Park	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	140m	East
I1522	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	143m	North East
I1521	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	143m	North East
I1523	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	145m	North East
I1514	House 'St Clair Flats'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	150m	East
I1508	Former Hotel Victoria	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	152m	North East
I1507	Shop & residence group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	163m	North East
I1304	Former theatre 'Stage Club'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	166m	South West
I1305	Former Bank of NSW	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	176m	South East
I1629	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	178m	North East
I1303	Shop & residence group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	178m	West
I1515	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	180m	South East
I1519	Shakespeare Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	181m	North

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I1302	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	186m	West
I1301	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	193m	West
I1626	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	193m	North
I2264	Former Edward Hill & Co Factory	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	05/04/2024	194m	East
I1300	Terrace house 'Evelyn'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	200m	West
I1360	Terrace group 'Zetland Terraces'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	201m	South West
I1299	Terrace house 'Saxtonia'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	207m	West
I1326	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	208m	South West
I1579	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	213m	South East
I1298	Terrace house 'Landshipping House' (289 Cleveland Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	213m	West
I1330	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	215m	South West
I1278	NSW Mounted Police Barracks & Taoist Association of Australia group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	224m	South East
I2265	Former W. C. Penfold Co. Factory	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	05/04/2024	231m	North West
I1512	Corner shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	233m	North East
I1578	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	235m	East
I1309	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	238m	West
I1407	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	238m	North
I1634	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	239m	North
I1622	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	240m	North
I1526	Terrace group (8-10 Edgely Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	243m	East
I1527	Terrace house (12 Edgely Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	243m	East
I1529	Terrace group (16-20 Edgely Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	244m	East
I1633	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	244m	North
I1525	Terrace group (2-6 Edgely Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	244m	East

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I1528	Terrace group (14-14A Edgely Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	244m	East
I1530	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	244m	East
C61	Brumby Street	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	244m	North West
I1524	Terrace group (9-15 Pawley Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	245m	East
I1419	Former St David's Church group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	245m	North East
I1632	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	249m	North
I1518	Former Clarendon Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	251m	North
I1631	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	253m	North
I1509	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	256m	North East
I1310	Terrace group 'Pleasant Terrace' (552-564 Elizabeth Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	263m	South West
I1621	Former warehouse 'The Boys & Girls Brigade'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	265m	North
I1488	Commercial building 'Reader's Digest'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	265m	North
I1422	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	269m	North East
C62	Cleveland Gardens	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	270m	North West
C56	Redfern Estate	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	24/02/2023	28/02/2023	05/04/2024	270m	West
I1297	Surrey Club Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	280m	West
I1311	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	282m	West
I1538	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	282m	West
I1454	Former police station	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	288m	South East
I1312	Commercial building 'Stanton Mellick'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	292m	West
I1313	Church 'The Where Kakakel'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	297m	West
I1418	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	301m	North East
I1296	Commercial building 'Demco Machinery Co'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	302m	West
I1630	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	303m	North

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I1420	House 'Clydesville'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	304m	North East
I1421	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	307m	North East
I1450	Former corner shop	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	308m	East
I1306	Former Cleveland Inn Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	315m	South East
I1448	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	319m	North East
I1449	Bourke Street Public School	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	320m	East
I1517	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	321m	North West
I1465	Terrace group 'Cleveland Terrace'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	324m	West
I1465	Terrace group 'Cleveland Terrace'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	325m	West
I1628	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	326m	North
I1444	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	328m	East
I1368	Terrace group 'Teleopea Terraces'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	328m	South
I1451	House	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	330m	East
I1613	Former Riley Street Public School group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	330m	North
I1516	Society of Friends (Quaker) Meeting House	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	334m	North West
I1483	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	335m	North East
I1452	Holy Trinity Greek Orthodox Church	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	337m	East
I1442	Corner shop & residence group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	339m	East
I1441	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	343m	East
I1627	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	344m	North
I1447	Former warehouse (56 Rainford Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	345m	North East
I1463	Belvoir Street Baptist Church	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	345m	West
C54	Chelsea and Thurlow Streets	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	347m	South East
I1279	Flat building 'Edelweiss'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	349m	South

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I2253	Former A. Hordern & Sons Factory Complex	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	05/04/2024	349m	South West
I1440	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	350m	East
I1505	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	354m	North East
I1563A	Former Ford Sherington Trunk Factory incl interior	Item - General	Local	Sydney Local Environmental Plan 2012	29/08/2014	29/08/2014	05/04/2024	360m	North
I1446	Carrington Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	360m	North East
I1625	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	363m	North
I1453	Former stables (1 Ridge Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	365m	South East
I1624	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	367m	North
I1321	Electrical substation	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	370m	West
I1464	Terrace group 'Pembroke Terrace'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	370m	West
I1623	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	372m	North
I1534	Former ANZ Bank	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	373m	North West
I1439	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	374m	North East
I1620	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	377m	North
I1423	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	379m	West
I1445	Corner shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	379m	North East
I1506	Clock Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	381m	North East
I1481	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	387m	North
I1461	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	388m	North West
I1482	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	392m	North
I1460	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	396m	North West
I1610	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	404m	North
I1459	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	405m	North West
I1283	Former house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	405m	South East

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I1619	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	408m	North
I1462	House 'Cleveland House'	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	409m	North West
I1458	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	409m	North West
I1443	Corner shop & residence group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	410m	North East
I1325	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	410m	South East
I1609	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	411m	North
I1457	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	413m	North West
I1618	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	414m	North
I1537	Terrace house (459 Elizabeth Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	417m	North West
I1563	Commercial building 'News Limited'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	421m	North
I1487	Former Prince of Wales Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	421m	North
I1608	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	421m	North
I1536	Terrace house (457 Elizabeth Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	421m	North West
I1291	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	424m	South East
I1535	Strawberry Hills Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	426m	North West
I1606	Shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	426m	North
I1475	Terrace house 'Ravenswood'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	430m	West
I1592	Warehouse	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	431m	North East
I1605	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	431m	North
I1580	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	440m	North East
I1604	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	441m	North
I1290	Cottage remnant	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	442m	South East
I1324	Semi-detached cottage group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	443m	South East
I1503	Shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	444m	North East

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I1617	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	448m	North
I1601	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	450m	North
I1591	Warehouse	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	451m	North East
I1474	Welsh Presbyterian Church	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	455m	North West
I1477	Former Cleveland Street Public School	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	455m	West
I1600	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	458m	North
C57	Rennie & Mount Streets	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	460m	South East
I1406	Prince Alfred Park	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	463m	West
I1616	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	463m	North
I1599	Shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	464m	North
I1615	Shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	469m	North
I1642	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	469m	East
I1598	Cottage & terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	469m	North
I1640	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	472m	East
I1641	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	472m	East
I1614	Former Mountview Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	474m	North
I1473	Commercial building 'Australian Metalworkers' (126 -128 Chalmers Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	474m	North West
I1329	Industrial building 'Hodbin Poole Printers'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	475m	South
I1369	St Saviour's Anglican Church group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	476m	South
I1643	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	479m	East
I1644	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	481m	East
I1645	Terrace house 'Kinkora'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	482m	East
I1639	Terrace group 'Wyee Terrace'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	483m	East
I1347	Redfern Park	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	487m	South West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I1646	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	05/04/2024	495m	East

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Natural Hazards

61 Marlborough Street, Surry Hills, NSW 2010

Bush Fire Prone Land

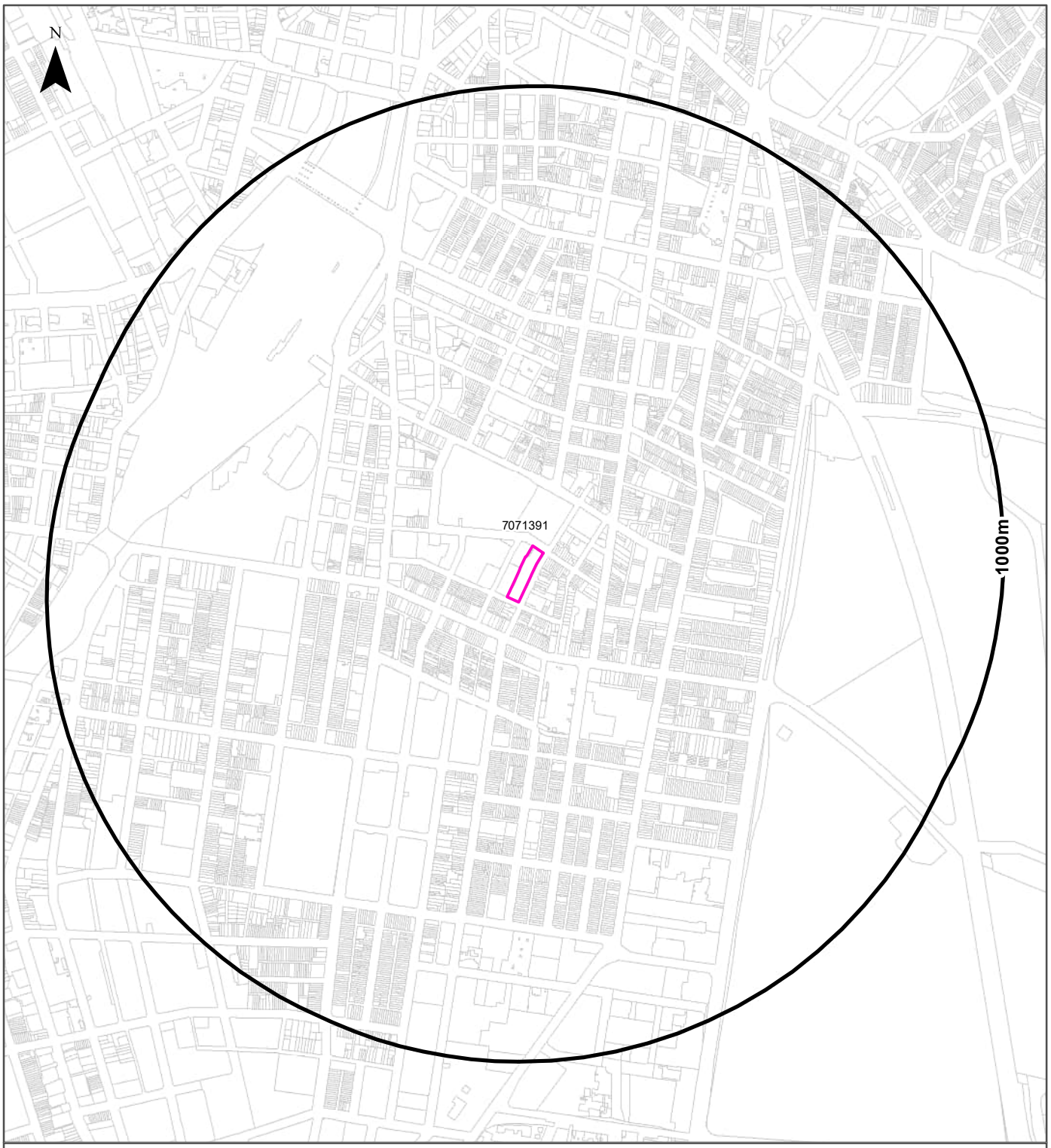
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
No records in buffer		

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

Ecological Constraints - Vegetation & Ramsar Wetlands

61 Marlborough Street, Surry Hills, NSW 2010



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: 05 September 2025

Ecological Constraints

61 Marlborough Street, Surry Hills, NSW 2010

Native Vegetation

What native vegetation exists within the dataset buffer?

Map ID	Vegetation Formation	Plant Community Type and Vegetation Formation	Vegetation Class	Dist	Dir
7071391	Not classified	(Not classified) Not classified	Not classified	0m	On-site

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

61 Marlborough Street, Surry Hills, NSW 2010

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

61 Marlborough Street, Surry Hills, NSW 2010

Groundwater Dependent Ecosystems Atlas

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

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

61 Marlborough Street, Surry Hills, NSW 2010

Inflow Dependent Ecosystems Likelihood

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

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

61 Marlborough Street, Surry Hills, NSW 2010

NSW BioNet Species Sightings

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

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	Crinia tinnula	Wallum Froglet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Amphibia	Litoria aurea	Green and Golden Bell Frog	Not Sensitive	Endangered	Vulnerable	
Animalia	Amphibia	Pseudophryne australis	Red-crowned Toadlet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Actitis hypoleucos	Common Sandpiper	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Amaurornis moluccana	Pale-vented Bush-hen	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Anous albivitta	Grey Ternlet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Anous stolidus	Common Noddy	Not Sensitive	Not Listed	Not Listed	CAMBA;JAMBA
Animalia	Aves	Anseranas semipalmata	Magpie Goose	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Anthochaera phrygia	Regent Honeyeater	Category 2	Critically Endangered	Critically Endangered	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Ardenna carneipes	Flesh-footed Shearwater	Not Sensitive	Vulnerable	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Ardenna grisea	Sooty Shearwater	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Ardenna pacifica	Wedge-tailed Shearwater	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Ardenna tenuirostris	Short-tailed Shearwater	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Arenaria interpres	Ruddy Turnstone	Not Sensitive	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 alba	Sanderling	Not Sensitive	Vulnerable	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris canutus	Red Knot	Not Sensitive	Vulnerable	Endangered	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 melanotos	Pectoral Sandpiper	Not Sensitive	Not Listed	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Calidris ruficollis	Red-necked Stint	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris tenuirostris	Great Knot	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calonectris leucomelas	Streaked Shearwater	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Calyptorhynchus banksii samueli	Red-tailed Black-Cockatoo (inland subspecies)	Category 2	Vulnerable	Not Listed	
Animalia	Aves	Calyptorhynchus lathami lathami	South-eastern Glossy Black-Cockatoo	Category 2	Vulnerable	Vulnerable	
Animalia	Aves	Certhionyx variegatus	Pied Honeyeater	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Charadrius leschenaultii	Greater Sand-plover	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Charadrius mongolus	Lesser Sand-plover	Not Sensitive	Vulnerable	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Charadrius veredus	Oriental Plover	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Chlidonias leucopterus	White-winged Black Tern	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Circus assimilis	Spotted Harrier	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Coracina lineata	Barred Cuckoo-shrike	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Cuculus optatus	Oriental Cuckoo	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Diomedea exulans	Wandering Albatross	Not Sensitive	Endangered	Vulnerable	
Animalia	Aves	Diomedea gibsoni	Gibson's Albatross	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Not Sensitive	Endangered Population, Vulnerable	Not Listed	
Animalia	Aves	Erythrotriorchis radiatus	Red Goshawk	Category 2	Endangered	Endangered	
Animalia	Aves	Esacus magnirostris	Beach Stone-curlew	Not Sensitive	Critically Endangered	Not Listed	
Animalia	Aves	Falco subniger	Black Falcon	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Fregata ariel	Lesser Frigatebird	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
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

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Lophochroa leadbeateri	Pink Cockatoo	Category 2	Vulnerable	Endangered	
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Macronectes giganteus	Southern Giant Petrel	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Macronectes halli	Northern Giant-Petrel	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Manorina melanotis	Black-eared Miner	Not Sensitive	Critically Endangered	Endangered	
Animalia	Aves	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	Motacilla flava	Yellow Wagtail	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Neophema chrysogaster	Orange-bellied Parrot	Category 3	Critically Endangered	Critically Endangered	
Animalia	Aves	Neophema chrysostoma	Blue-winged Parrot	Not Sensitive	Vulnerable	Vulnerable	
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 madagascariensis	Eastern Curlew	Not Sensitive	Critically Endangered	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius minutus	Little Curlew	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius phaeopus	Whimbrel	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Oceanites oceanicus	Wilson's Storm-Petrel	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Onychoprion fuscatus	Sooty Tern	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Oxyura australis	Blue-billed Duck	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Parvipsitta pusilla	Little Lorikeet	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pezoporus wallicus wallicus	Eastern Ground Parrot	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Phaethon lepturus	White-tailed Tropicbird	Not Sensitive	Not Listed	Not Listed	CAMBA;JAMBA
Animalia	Aves	Phaethon rubricauda	Red-tailed Tropicbird	Not Sensitive	Vulnerable	Not Listed	CAMBA;JAMBA
Animalia	Aves	Pluvialis fulva	Pacific Golden Plover	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Sensitive	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	Pterodroma leucoptera leucoptera	Gould's Petrel	Not Sensitive	Vulnerable	Endangered	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Pterodroma neglecta neglecta	Kermadec Petrel (west Pacific subspecies)	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Pterodroma nigripennis	Black-winged Petrel	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pterodroma solandri	Providence Petrel	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Ptilinopus magnificus	Wompoo Fruit-Dove	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Ptilinopus regina	Rose-crowned Fruit-Dove	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Ptilinopus superbus	Superb Fruit-Dove	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Puffinus assimilis	Little Shearwater	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Pyrrholaemus sagittatus	Speckled Warbler	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Stercorarius longicaudus	Long-tailed Jaeger	Not Sensitive	Not Listed	Not Listed	CAMBA;JAMBA
Animalia	Aves	Stercorarius maccormicki	South Polar Skua	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Stercorarius parasiticus	Arctic Jaeger	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Stercorarius pomarinus	Pomarine Jaeger	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sterna hirundo	Common Tern	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sternula albifrons	Little Tern	Not Sensitive	Endangered	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Not Sensitive	Vulnerable	Not Listed	
Animalia	Aves	Sula dactylatra	Masked Booby	Not Sensitive	Vulnerable	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Sula leucogaster	Brown Booby	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sula sula	Red-footed Booby	Not Sensitive	Not Listed	Not Listed	CAMBA;JAMBA
Animalia	Aves	Thalassarche bulleri	Buller's Albatross	Not Sensitive	Not Listed	Vulnerable	
Animalia	Aves	Thalassarche cauta	Shy Albatross	Not Sensitive	Endangered	Endangered	
Animalia	Aves	Thalassarche chrysostoma	Grey-headed Albatross	Not Sensitive	Not Listed	Endangered	
Animalia	Aves	Thalassarche melanophris	Black-browed Albatross	Not Sensitive	Vulnerable	Vulnerable	
Animalia	Aves	Thalasseus bergii	Crested Tern	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Thinornis cucullatus cucullatus	Eastern Hooded Dotterel	Not Sensitive	Critically Endangered	Vulnerable	
Animalia	Aves	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 glareola	Wood Sandpiper	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa incana	Wandering Tattler	Not Sensitive	Not Listed	Not Listed	JAMBA
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Sensitive	Endangered	Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa stagnatilis	Marsh Sandpiper	Not Sensitive	Not Listed	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Turnix melanogaster	Black-breasted Button-quail	Not Sensitive	Critically Endangered	Vulnerable	
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Category 3	Vulnerable	Not Listed	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Tyto tenebricosa	Sooty Owl	Category 3	Vulnerable	Not Listed	
Animalia	Aves	Xenus cinereus	Terek Sandpiper	Not Sensitive	Vulnerable	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Gastropoda	Meridolum maryae	Maroubra Woodland Snail	Not Sensitive	Endangered	Endangered	
Animalia	Insecta	Petalura gigantea	Giant Dragonfly	Not Sensitive	Endangered	Not Listed	
Animalia	Mammalia	Aepyprymnus rufescens	Rufous Bettong	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Arctocephalus forsteri	New Zealand Fur-seal	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Arctocephalus pusillus doriferus	Australian Fur-seal	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Balaenoptera musculus	Blue Whale	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Cercartetus nanus	Eastern Pygmy-possum	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Not Sensitive	Vulnerable	Endangered	
Animalia	Mammalia	Dasyurus viverrinus	Eastern Quoll	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Dugong dugon	Dugong	Not Sensitive	Endangered	Not Listed	
Animalia	Mammalia	Eubalaena australis	Southern Right Whale	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Macrotis lagotis	Bilby	Not Sensitive	Extinct	Vulnerable	
Animalia	Mammalia	Micronomus norfolkensis	Eastern Coastal Free-tailed Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Miniopterus australis	Little Bent-winged Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Notomys cervinus	Fawn Hopping-mouse	Not Sensitive	Extinct	Not Listed	
Animalia	Mammalia	Notomys mitchellii	Mitchell's Hopping-mouse	Not Sensitive	Extinct	Not Listed	
Animalia	Mammalia	Perameles nasuta	Long-nosed Bandicoot	Not Sensitive	Endangered Population	Not Listed	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Not Sensitive	Endangered	Endangered	
Animalia	Mammalia	Physeter macrocephalus	Sperm Whale	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Pseudomys gracilicaudatus	Eastern Chestnut Mouse	Not Sensitive	Vulnerable	Not Listed	
Animalia	Mammalia	Pseudomys novaehollandiae	New Holland Mouse	Not Sensitive	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	Antaresia childreni	Children's Python	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Aspidites ramsayi	Woma	Not Sensitive	Vulnerable	Not Listed	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
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	Hoplocephalus bitorquatus	Pale-headed Snake	Not Sensitive	Vulnerable	Not Listed	
Animalia	Reptilia	Pseudonaja modesta	Ringed Brown Snake	Not Sensitive	Endangered	Not Listed	
Animalia	Reptilia	Tiliqua 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	
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 gordonii		Not Sensitive	Endangered	Endangered	
Plantae	Flora	Acacia pubescens	Downy Wattle	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Acacia terminalis subsp. Eastern Sydney	Sunshine wattle	Not Sensitive	Endangered	Endangered	
Plantae	Flora	Allocasuarina portuensis	Nielsen Park She-oak	Category 3	Endangered	Endangered	
Plantae	Flora	Amperea xiphoclada var. pedicellata		Not Sensitive	Extinct	Extinct	
Plantae	Flora	Asterolasia buxifolia		Not Sensitive	Critically Endangered	Critically Endangered	
Plantae	Flora	Caladenia tessellata	Thick Lip Spider Orchid	Category 2	Vulnerable	Vulnerable	
Plantae	Flora	Callistemon linearifolius	Netted Bottle Brush	Category 3	Vulnerable	Not Listed	
Plantae	Flora	Dichanthium setosum	Bluegrass	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Doryanthes palmeri	Giant Spear Lily	Not Sensitive	Vulnerable	Not Listed	

Kingdom	Class	Scientific	Common	Sensitivity Class	State Conservation Status	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Epacris purpurascens var. purpurascens		Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Eucalyptus camfieldii	Camfield's Stringybark	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Eucalyptus fracta	Broken Back Ironbark	Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Eucalyptus leucoxylon subsp. pruinosa	Yellow Gum	Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Eucalyptus nicholii	Narrow-leaved Black Peppermint	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Eucalyptus pulverulenta	Silver-leafed Gum	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Eucalyptus scoparia	Wallangarra White Gum	Not Sensitive	Endangered	Vulnerable	
Plantae	Flora	Gaudium deanei		Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Genoplesium baueri	Bauer's Midge Orchid	Category 2	Endangered	Endangered	
Plantae	Flora	Grammitis stenophylla	Narrow-leaf Finger Fern	Category 3	Endangered	Not Listed	
Plantae	Flora	Grevillea caleyi	Caley's Grevillea	Category 3	Critically Endangered	Critically Endangered	
Plantae	Flora	Hibbertia puberula		Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Macadamia integrifolia	Macadamia Nut	Not Sensitive	Not Listed	Vulnerable	
Plantae	Flora	Macadamia tetraphylla	Rough-shelled Bush Nut	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Melaleuca biconvexa	Biconvex Paperbark	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Melaleuca deanei	Deane's Paperbark	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Category 3	Endangered	Endangered	
Plantae	Flora	Pimelea curviflora var. curviflora		Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Prasophyllum fuscum	Slaty Leek Orchid	Category 2	Critically Endangered	Vulnerable	
Plantae	Flora	Prostanthera marifolia	Seaforth Mintbush	Category 3	Critically Endangered	Critically Endangered	
Plantae	Flora	Rhodamnia rubescens	Scrub Turpentine	Not Sensitive	Critically Endangered	Critically Endangered	
Plantae	Flora	Sarcochilus hartmannii	Hartman's Sarcochilus	Category 2	Vulnerable	Vulnerable	
Plantae	Flora	Senecio spathulatus	Coast Groundsel	Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Senna acclinis	Rainforest Cassia	Not Sensitive	Endangered	Not Listed	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Tetratheca glandulosa		Not Sensitive	Vulnerable	Not Listed	
Plantae	Flora	Tetratheca juncea	Black-eyed Susan	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Thesium australe	Austral Toadflax	Not Sensitive	Vulnerable	Vulnerable	
Plantae	Flora	Triplarina imbricata	Creek Triplarina	Not Sensitive	Endangered	Endangered	
Plantae	Flora	Wilsonia backhousei	Narrow-leafed Wilsonia	Not Sensitive	Vulnerable	Not Listed	

Source: NSW BioNet Species Sightings

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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 G – Soil Logs, field note and PID Calibration Forms

MONITORING WELL LOG

BH ID: BH101M

Location	61 Marlborough Street, Surry Hills NSW 2010	**Started**	01 September 2025
Client	M House Surry Pty Ltd	**Completed**	02 September 2025
Job No.	E26534.G03	**Logged By**	MS **Date** 02 September 2025
Sheets	1 of 5	**Review By**	**Date**
Drilling Contractor	Geosense Drilling Engineers	**Surface RL**	≈43.00 m (AHD)
Plant	Comacchio Geo 205	**Inclination**	90°
Northing	6248676.6 (MGA 2020 Zone 56)		
Easting	334617.4 (MGA 2020 Zone 56)		

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
		0.00	43.00	CONCRETE: 130mm thick	-		Well Stickup =0.0m (RL 43.0m)
		0.13	42.87	FILL: Silty SAND: fine to medium grained, brown, grey, with sub-angular to angular gravels			
	BH101M_0.50-0.95 SPT 0.50-0.95 3,5,5 N=10	0.50	42.50	From 0.50m, with brick fragments	M		
	BH101M_1.00-1.10	1.00	42.00	From 1.00m, high plasticity, brown, with fine to medium grained sand, with fine to medium sub-angular to angular gravels	M > PL		
	BH101M_1.50-1.95 SPT 1.50-1.95 2,5,8 N=13	1.30	41.70	Silty CLAY: medium plasticity, brown, pale grey, mottled orange, with ironstone gravels			
	BH101M_2.50-2.60	2.00	41.00	From 2.00m, grading into extremely weathered bedrock, highly weathered angular to sub-angular shale gravels, very low strength.	M < PL		
	BH101M_3.00-3.15 SPT 3.00-3.15 20/150 mm HB N=R	3.00	40.00	SHALE: grey, brown, with iron staining, very low strength	-		
100%	BH101M_4.00-4.15 SPT 4.00-4.15 14/150 mm N=R	4.00	39.00	SHALE: grey, iron stained			
		6.64	36.36	From 6.64m, dark grey			
90%							

MONITORING WELL LOG

BH ID: BH101M

Location	61 Marlborough Street, Surry Hills NSW 2010			**Started**	01 September 2025
Client	M House Surry Pty Ltd			**Completed**	02 September 2025
Job No.	E26534.G03			**Logged By**	MS **Date** 02 September 2025
Sheets	2 of 5			**Review By**	**Date**
Drilling Contractor	Geosense Drilling Engineers	**Surface RL**	≈43.00 m (AHD)	**Northing**	6248676.6 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	**Inclination**	90°	**Easting**	334617.4 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
90% 12/09/2025 03:31 PM		11		From 6.64m, dark grey		Sand 0.00m - 20.00m	0.0m - 22.0m PVC casing (50mm Ø)
		11.04	31.96	SANDSTONE: fine to medium grained, grey, thinly bedded			
		12					
		12.15	30.85	From 12.15m, thinly to medium bedded			
		13					
		13.44	29.56	From 13.44m, trace silt			
		13.57	29.43	From 13.57m, thinly to medium bedded			
		14					
		15					
		15.54	27.46	From 15.54m, with siltstone bands			
		16					
		16.24	26.76	From 16.24m, grey,thinly to medium bedded			
		17					
		18					
		19					
		20					

MONITORING WELL LOG

BH ID: BH101M

Location	61 Marlborough Street, Surry Hills NSW 2010			**Started**	01 September 2025
Client	M House Surry Pty Ltd			**Completed**	02 September 2025
Job No.	E26534.G03			**Logged By**	MS **Date** 02 September 2025
Sheets	3 of 5			**Review By**	**Date**
Drilling Contractor	Geosense Drilling Engineers	**Surface RL**	≈43.00 m (AHD)	**Northing**	6248676.6 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	**Inclination**	90°	**Easting**	334617.4 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
90%		21			From 16.24m, grey,thinly to medium bedded		Bentonite 20.00m - 21.00m	
		21.51		21.49	From 21.51m, grey, thinly bedded			
		22						
		23						
		24					Sand 21.00m - 28.00m	
		25						22.0m - 28.0m PVC screen (50mm Ø)
		26						
		27						
		27.70		15.30	From 27.70m, with siltstone bands			
		28						
		29						
		30						

MONITORING WELL LOG

BH ID: BH101M

Location	61 Marlborough Street, Surry Hills NSW 2010			**Started**	01 September 2025
Client	M House Surry Pty Ltd			**Completed**	02 September 2025
Job No.	E26534.G03			**Logged By**	MS **Date** 02 September 2025
Sheets	4 of 5			**Review By**	**Date**
Drilling Contractor	Geosense Drilling Engineers	**Surface RL**	≈43.00 m (AHD)	**Northing**	6248676.6 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	**Inclination**	90°	**Easting**	334617.4 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
90%		31			From 27.70m, with siltstone bands			
		32						
		33						
		33.76		9.24	From 33.76m, thinly to medium bedded			
		34						
		35						
		36					Sand 28.00m - 45.14m	
		37						
		38						
		39						
		39.80		3.20	From 39.80m, thinly bedded			
		40						

MONITORING WELL LOG

BH ID: BH101M

Location	61 Marlborough Street, Surry Hills NSW 2010			**Started**	01 September 2025
Client	M House Surry Pty Ltd			**Completed**	02 September 2025
Job No.	E26534.G03			**Logged By**	MS **Date** 02 September 2025
Sheets	5 of 5			**Review By**	**Date**
Drilling Contractor	Geosense Drilling Engineers	**Surface RL**	≈43.00 m (AHD)	**Northing**	6248676.6 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	**Inclination**	90°	**Easting**	334617.4 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
90%		41, 42, 42.86, 43, 44, 45, 46, 47, 48, 49, 50		0.14, -2.14	From 39.80m, thinly bedded From 42.86m, thinly to medium bedded Terminated at 45.14m. Target Depth Reached.			

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

MONITORING WELL LOG

BH ID: BH102M

Location	61 Marlborough Street, Surry Hills NSW 2010	**Started**	06 September 2025
Client	M House Surry Pty Ltd	**Completed**	08 September 2025
Job No.	E26534.G04	**Logged By**	S2 **Date** 08 September 2025
Sheets	1 of 3	**Review By**	**Date** 23 October 2025
Drilling Contractor	STS Geotechnics Pty Limited	**Surface RL**	-
Plant	Christie Track Rig	**Inclination**	90°
Northing	6250708.7 (MGA 2020 Zone 56)		
Easting	332826.8 (MGA 2020 Zone 56)		

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
		0.00			CONCRETE: 200mm thick	-		Well Stickup =-0.10m
		0.20			FILL: Silty CLAY: low to medium plasticity, dark brown, trace of fine to medium grained gravels	M		
		0.40			Silty CLAY: medium to high plasticity, red brown	M > PL		
		3.00			SHALE: dark grey, very low to low strength, highly weathered.	-	Cuttings 0.10m - 9.00m	
▷		7.10			SHALE: dark grey, with interbedded pale grey sandstone laminate, thinly bedded.			
		9.70			SANDSTONE: medium to coarse-grained, pale grey, exhibiting facies variations from distinctly to indistinctly cross-bedded at 0°–15°.			0.10m - 18.80m PVC casing (50mm Ø)

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

MONITORING WELL LOG

BH ID: BH102M

Location	61 Marlborough Street, Surry Hills NSW 2010			**Started**	06 September 2025
Client	M House Surry Pty Ltd			**Completed**	08 September 2025
Job No.	E26534.G04			**Logged By**	S2 **Date** 08 September 2025
Sheets	2 of 3			**Review By**	**Date** 23 October 2025
Drilling Contractor	STS Geotechnics Pty Limited	**Surface RL**	-	**Northing**	6250708.7 (MGA 2020 Zone 56)
Plant	Christie Track Rig	**Inclination**	90°	**Easting**	332826.8 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
		11			SANDSTONE: medium to coarse-grained, pale grey, exhibiting facies variations from distinctly to indistinctly cross-bedded at 0°–15°.			
		12						
		13					Sand 9.00m - 16.50m	
		14						
		15						
		16						
		17					Bentonite 16.50m - 18.00m	
		18						
		19						
		20						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

MONITORING WELL LOG

BH ID: BH102M

Location	61 Marlborough Street, Surry Hills NSW 2010			**Started**	06 September 2025
Client	M House Surry Pty Ltd			**Completed**	08 September 2025
Job No.	E26534.G04			**Logged By**	S2 **Date** 08 September 2025
Sheets	3 of 3			**Review By**	**Date** 23 October 2025
Drilling Contractor	STS Geotechnics Pty Limited	**Surface RL**	-	**Northing**	6250708.7 (MGA 2020 Zone 56)
Plant	Christie Track Rig	**Inclination**	90°	**Easting**	332826.8 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
		21			SANDSTONE: medium to coarse-grained, pale grey, exhibiting facies variations from distinctly to indistinctly cross-bedded at 0°–15°.		Sand 18.00m - 24.80m	18.80m - 24.80m PVC screen (50mm Ø)
		22						
		23						
		24						
		25			Terminated at 24.82m. Target Depth Reached.			
		26						
		27						
		28						
		29						
		30						

MONITORING WELL LOG

BH ID: BH103M

Location	61 Marlborough Street, Surry Hills NSW 2010			**Started**	03 September 2025
Client	M House Surry Pty Ltd			**Completed**	04 September 2025
Job No.	E26534.G03			**Logged By**	MS **Date** 04 September 2025
Sheets	1 of 4			**Review By**	**Date**
Drilling Contractor	Geosense Drilling Engineers	**Surface RL**	≈41.70 m (AHD)	**Northing**	6248586.9 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	**Inclination**	90°	**Easting**	334568.3 (MGA 2020 Zone 56)

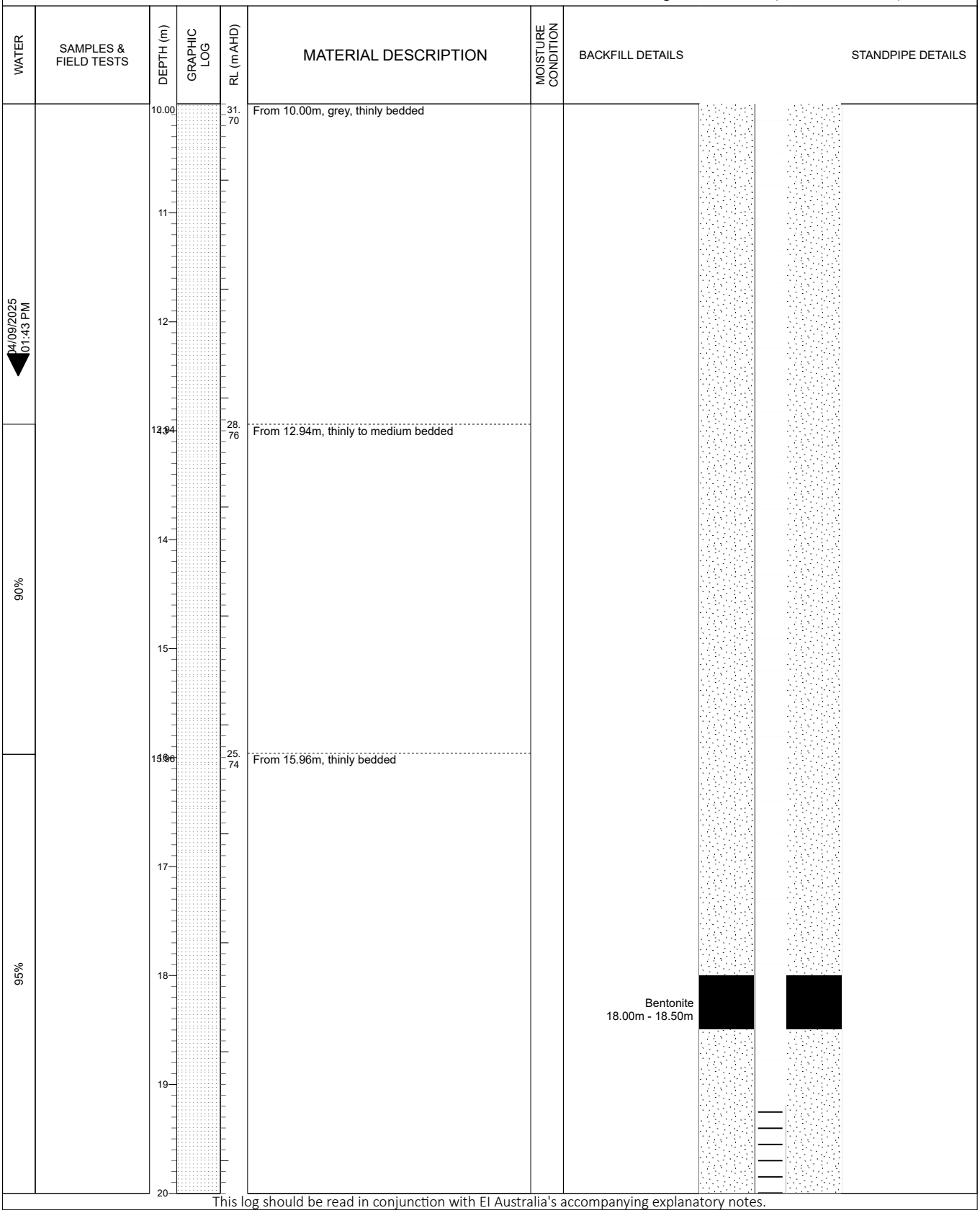
WATER	SAMPLES & FIELD TESTS	DEPTH (m)	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
	BH103M_0.20-0.30 BH103M_0.30-0.40 BH103M_0.50-0.95 SPT 0.50-0.95 5,6,7 N=13	0.00 0.13 0.50	41.70 41.57 41.20	CONCRETE: 130mm thick FILL: Silty CLAY: medium plasticity, grey, brown, orange, with fine to medium grained sand, trace brick fragments, with fine to medium sub-angular to angular gravels Silty CLAY: high plasticity, red brown, mottled grey, with fine sub-angular to angular ironstone gravels	-	Sand 0.00m - 18.00m	Well Stickup =0.0m (RL 41.70m) 0.0m - 19.20m PVC casing (50mm Ø)
	BH103M_1.50-1.95 SPT 1.50-1.95 6,11,11 N=22	1.50	40.20	From 1.50m, high plasticity, red brown, pale grey, mottled orange, with ironstone gravels			
	BH103M_3.00-3.20 SPT 3.00-3.20 12,4/50 mm HB N=R	2.50	39.20	From 2.50m, high plasticity, grading into extremely weathered material	M > PL		
	BH103M_3.50-3.60	3.50	38.20	From 3.50m, high plasticity, grey, mottled orange			
	BH103M_4.50-4.83 SPT 4.50-4.83 10,16,3/30 mm HB N=R	4.70	37.00	Silty CLAY: high plasticity, brown, grey, mottled orange			
		5.07	36.63	SHALE: grey, brown			
		7.17	34.53	SANDSTONE: fine to medium grained, brown, grey, with shale bands			

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

MONITORING WELL LOG

BH ID: BH103M

Location	61 Marlborough Street, Surry Hills NSW 2010			**Started**	03 September 2025
Client	M House Surry Pty Ltd			**Completed**	04 September 2025
Job No.	E26534.G03			**Logged By**	MS **Date** 04 September 2025
Sheets	2 of 4			**Review By**	**Date**
Drilling Contractor	Geosense Drilling Engineers	**Surface RL**	≈41.70 m (AHD)	**Northing**	6248586.9 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	**Inclination**	90°	**Easting**	334568.3 (MGA 2020 Zone 56)



MONITORING WELL LOG

BH ID: BH103M

Location	61 Marlborough Street, Surry Hills NSW 2010			**Started**	03 September 2025
Client	M House Surry Pty Ltd			**Completed**	04 September 2025
Job No.	E26534.G03			**Logged By**	MS **Date** 04 September 2025
Sheets	3 of 4			**Review By**	**Date**
Drilling Contractor	Geosense Drilling Engineers	**Surface RL**	≈41.70 m (AHD)	**Northing**	6248586.9 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	**Inclination**	90°	**Easting**	334568.3 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
95%		21			From 15.96m, thinly bedded		Sand 18.50m - 25.20m	19.20m - 25.20m PVC screen (50mm Ø)
		22						
		22.85		18.86	SHALE: dark grey			
		23.03		18.77	SANDSTONE: fine to medium grained, grey, thickly to thinly bedded			
		24						
		25						
		26						
		27						
		27.03		14.67	From 27.03m, thickly bedded		Sand 25.20m - 30.16m	
		28						
		29						
		30						

MONITORING WELL LOG

BH ID: BH103M

Location	61 Marlborough Street, Surry Hills NSW 2010			**Started**	03 September 2025
Client	M House Surry Pty Ltd			**Completed**	04 September 2025
Job No.	E26534.G03			**Logged By**	MS **Date** 04 September 2025
Sheets	4 of 4			**Review By**	**Date**
Drilling Contractor	Geosense Drilling Engineers	**Surface RL**	≈41.70 m (AHD)	**Northing**	6248586.9 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	**Inclination**	90°	**Easting**	334568.3 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
95%				11.54	From 27.03m, thickly bedded Terminated at 30.16m. Target Depth Reached.			

31 32 33 34 35 36 37 38 39 40

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

BOREHOLE LOG

BH ID: BH104

Location	61 Marlborough Street, Surry Hills NSW	**Started**	03 September 2025
Client	M House Surry Pty Ltd	**Completed**	03 September 2025
Job No.	E26534	**Logged By**	CW **Date** 03 September 2025
Sheets	1 of 1	**Review By**	RL **Date** 08 September 2025
Drilling Contractor	STS	**Surface RL**	- **Latitude** -
Plant	Ute mounted rig	**Inclination**	90° **Longitude** -

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
				0			CONCRETE: 150mm thick			CONCRETE
		BH104_0.30-0.40 QA01, QC01, PID = 0.1 PPM		0.15			FILL: Gravelly SAND: brown and grey, coarse grained sand, angular to sub-angular gravels, glass fragments.			FILL
				1						
				1.30			Clayey SAND: brownish yellow, fine to coarse grained sand, with clay content.	M		RESIDUAL SOIL
				1.80			Sandy CLAY: low plasticity, yellow, moist.			
				2						
				2.30			Sandy CLAY: low to medium plasticity, brownish yellow, moist.			
				2.70			Sandy CLAY: non plasticity, grey with red mottles, weathered clay with shale fragments, very dry.	D		
		BH104_2.90-3.00 PID = 0 PPM		3			Terminated at 3.00m. Target Depth Reached.			
				4						
				5						
				6						
				7						
				8						
				9						
				10						

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

BOREHOLE LOG

BH ID: BH105

Location	61 Marlborough Street, Surry Hills NSW	**Started**	03 September 2025
Client	M House Surry Pty Ltd	**Completed**	03 September 2025
Job No.	E26534	**Logged By**	CW **Date**
Sheets	1 of 1	**Review By**	**Date**
Drilling Contractor	EI	**Surface RL**	- **Latitude** -
Plant	Hand auger	**Inclination**	90° **Longitude** -

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
				0.00			CONCRETE: 150mm thick			CONCRETE
		BH105_0.20-0.30 PID = 0		0.15			FILL: Sandy GRAVEL: brown, angular gravels, with coarse grained sand.	D		FILL
		BH105_0.50-0.60 PID = 0		0.40			Sandy CLAY: medium to high plasticity, reddish yellow with grey mottles, medium to high plasticity, moist,	M		RESIDUAL SOIL
							Terminated at 0.60m. Target Depth Reached.			
				1						
				2						
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

BOREHOLE LOG

BH ID: BH106

Location	61 Marlborough Street, Surry Hills NSW	**Started**	03 September 2025		
Client	M House Surry Pty Ltd	**Completed**	03 September 2025		
Job No.	E26534	**Logged By**	CW	**Date**	03 September 2025
Sheets	1 of 1	**Review By**	RL	**Date**	08 September 2025
Drilling Contractor	EI	**Surface RL**	-	**Latitude**	-
Plant	Hand auger	**Inclination**	90°	**Longitude**	-

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
		BH106_0.20-0.30		0.00			CONCRETE: 180mm thick			CONCRETE
		BH106_0.50-0.60		0.18			Sandy CLAY: high plasticity, orange with grey mottles, with fine to coarse grained sand.			RESIDUAL SOIL
							Terminated at 0.60m. Target Depth Reached.			

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

BOREHOLE LOG

BH ID: BH107

Location	61 Marlborough Street, Surry Hills NSW	**Started**	03 September 2025
Client	M House Surry Pty Ltd	**Completed**	03 September 2025
Job No.	E26534	**Logged By**	CW **Date**
Sheets	1 of 1	**Review By**	RL **Date** 08 September 2025
Drilling Contractor	STS	**Surface RL**	- **Latitude** -
Plant	Ute mounted rig	**Inclination**	90° **Longitude** -

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
				0.00			CONCRETE: 150mm thick			CONCRETE
				0.15			FILL: Sandy GRAVEL: road base gravels			FILL
				0.30			CONCRETE: 100mm thick			CONCRETE
		BH107_0.40-0.50 PID = 1.2		0.40			FILL: Sandy GRAVEL: with crushed sandstone, pink and brown, synthetic fibre	M		FILL
				0.70			FILL: Sandy GRAVEL: with crushed sandstone, siltstone fragments			
				1.00			FILL: Gravelly GRAVEL: colour becoming grey.			
				1.20			Sandy CLAY: low plasticity, brown, coarse grained sand, water strike at 2.1 mBGL, suspected to be purge water.	W		RESIDUAL SOIL
		BH107_2.00-2.10 PID = 1.2		2			Terminated at 2.10m. Target Depth Reached.			
				3						
				4						
				5						
				6						
				7						
				8						
				9						
				10						

BOREHOLE LOG

BH ID: BH108

Location	61 Marlborough Street, Surry Hills NSW	**Started**	03 September 2025
Client	M House Surry Pty Ltd	**Completed**	03 September 2025
Job No.	E26534	**Logged By**	CW **Date** 03 September 2025
Sheets	1 of 1	**Review By**	RL **Date** 08 September 2025
Drilling Contractor	-	**Surface RL**	- **Latitude** -
Plant	Hand auger	**Inclination**	90° **Longitude** -

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (m AHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
		BH108_0.20-0.30 PID = 0.0 PPM		0.00 0.15			CONCRETE: 150mm thick Gravelly SAND: dark grey, coarse grained sand, with shale fragments and sandstone cobbles. Terminated at 0.30m. Refusal on obstruction (bedrock)..			CONCRETE BEDROCK

This log should be read in conjunction with EI Australia's accompanying explanatory notes.

Appendix H – Chain of Custody, Sample Receipt Advice, and Laboratory Analytical Reports

eiaustralia

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 391332

Client Details

Client	EI Australia
Attention	Sergio Raposeira
Address	Suite 6.01, 55 Miller Street, Pyrmont, NSW, 2009

Sample Details

Your Reference	**E26534 61 Marlborough Street, Surry Hills**
Number of Samples	1 Water
Date samples received	22/09/2025
Date completed instructions received	22/09/2025

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.

Report Details

Date results requested by	29/09/2025
Date of Issue	29/09/2025

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Dragana Tomas, Senior Chemist
Tabitha Roberts, Senior Chemist
Timothy Toll, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water		
Our Reference		391332-1
Your Reference	UNITS	GW_BH100_QT 1
Date Sampled		18/09/2025
Type of sample		Water
Date extracted	-	23/09/2025
Date analysed	-	23/09/2025
TRH C_6 - C_9	µg/L	<10
TRH C_6 - C_{10}	µg/L	13
TRH C_6 - C_{10} less BTEX (F1)	µg/L	13
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	%	107
Surrogate Toluene-d8	%	98
Surrogate 4-Bromofluorobenzene	%	92

svTRH (C10-C40) in Water		
Our Reference		391332-1
Your Reference	UNITS	GW_BH100_QT 1
Date Sampled		18/09/2025
Type of sample		Water
Date extracted	-	23/09/2025
Date analysed	-	24/09/2025
TRH C_{10} - C_{14}	µg/L	82
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	80
TRH >C_{10} - C_{16}	µg/L	91
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	91
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	90
Surrogate o-Terphenyl	%	90

HM in water - dissolved		
Our Reference		391332-1
Your Reference	UNITS	GW_BH100_QT 1
Date Sampled		18/09/2025
Type of sample		Water
Date prepared	-	23/09/2025
Date analysed	-	23/09/2025
Arsenic-Dissolved	µg/L	<1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	<1
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	<1
Zinc-Dissolved	µg/L	5

Method ID	Methodology Summary
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-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 Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			23/09/2025	[NT]	[NT]	[NT]	[NT]	23/09/2025	[NT]
Date analysed	-			23/09/2025	[NT]	[NT]	[NT]	[NT]	23/09/2025	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	96	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	96	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	97	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate Toluene-d8	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	91	[NT]	[NT]	[NT]	[NT]	110	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			23/09/2025	[NT]	[NT]	[NT]	[NT]	23/09/2025	[NT]
Date analysed	-			23/09/2025	[NT]	[NT]	[NT]	[NT]	23/09/2025	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	98	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	106	[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]	98	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	106	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	104	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date prepared	-			23/09/2025	[NT]	[NT]	[NT]	[NT]	23/09/2025	[NT]
Date analysed	-			23/09/2025	[NT]	[NT]	[NT]	[NT]	23/09/2025	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	101	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	93	[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.

Sheet __1 of _1_

Site: 61 Marlborough Street, Surry Hills

Project No: E26534

Laboratory: **SGS Australia**
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	Sample Matrix: SOIL	WATER	0.45 µm field filtered	OTHER	Analysis: HM (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) /TRH (including F1, F2, F3, F4)/ BTEX/PAHs	HM ^ /TRH/BTEX/PAHs	HM A /TRH(including F1, F2, F3, F4)/ BTEX	BTEX	VOCs	pH/ Turbidity/ TDS /EC/ Hardness	Asbestos Quantification	Excavated Natural Material (ENM) Suite	ENM Suite - Stockpile discrete (TRH/BTEX/PAHs)	ENM Suite - Stockpile composite (HM ^ /pH / EC / Foreign Materials)	Dewatering Suite	DPE AN2 Full Suite - Mandatory and Other Parameters	sPOCAS	Chromium Reducible Sulfur (CrS)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	Hold	TCLP HM B / PAH
GW_BH101M_1		s,p,vc	19/09/2025	PM		X			X				X	X														
GW_BH102M_1		s,p,vc	19/09/2025	PM		X			X				X	X														
GW_BH103M_1		s,p,vc	18/09/2025	PM		X														X								
GW_BH100_QD1		s,p,vc	18/09/2025	PM		X					X																	
GW_BH100_QT1		s,p,vc	18/09/2025	PM		X					X																	
GW_BH100_QR1		s,p,vc	18/09/2025	PM		X					X																	
GW_BH100_QRB1		s,p,vc	18/09/2025	PM		X																					X	
Trip Blank		Lab Prepared										X																
Trip Spike		Lab Prepared										X																

Comments

HM A
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM B
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / TDU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [X] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other_____

Container Type:
J = solvent washed, acid rinsed, Tefton sealed glass jar
S = solvent washed, acid rinsed glass bottle
P = natural HDPE plastic bottle
VC = glass vial, Tefton Septum
ZLB = Zip-Lock Bag BB = Bulk Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table ☐

Sampler's Name (EI): GT	Received by (SGS):
Print Geisiane Torres	*Print*
Signature	*Signature*
Date 19/09/2025	*Date*

Sampler's Comments:
CC: Ricardo Lopes and Sergio Raposeira. Please Forward GW_BH100_QT1 to Envirolab

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

eiaustralia
Contamination | Remediation | Geotechnical
Suite 6.01, 55 Miller Street,
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

COC June 2021 FORM v.5 - SGS

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 341332
Date Received: 22/9/25
Time Received: 1740
Received By: RH
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Sheet _1_ of _1_

Site:	Project No:
61 Marlborough St, Surry Hills	E26534

Laboratory: Envirolab Services Sydney
12 Ashley St, Chatswood NSW
P: 02 9910 6200

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	SOIL	WATER	0.45 µm field filtered	OTHER	HM [A] /TRH (including F1, F2, F3, F4)/BTEX/ PAHs/ OCP/OP/PCB/Asbestos	HM [A] /TRH (including F1, F2, F3, F4)/ BTEX/PAHs	HM [A] /TRH (including F1, F2, F3, F4)/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification (500ml)	Asbestos 10L field screening	Excavated Natural Material (ENM) Suite	ENM Suite - Stockpile discrete (TRH/BTEX/PAHs)	ENM Suite - Stockpile composite (HM [A] /pH / EC / Foreign Materials)	Dewatering Suite	pH / pH peroxide	sPOCAS	Chromium Reducible Sulfur (CrS)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	Lead	TCLP HM [B] / PAH
QC01	1	J	3/9/25		X						X																	

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / TDU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 390240
390173
Date Received: 9/3/25
Time Received: 1630
Received By: QW
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

LABORATORY TURNAROUND

- [x] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other____

Container Type:
J = solvent washed, acid rinsed, Teflon sealed glass jar
S = solvent washed, acid rinsed glass bottle
P = natural HDPE plastic bottle
VC = glass vial, Teflon Septum
ZLB = Zip-Lock Bag BB = Bulk Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table ☐

Sampler's Name (EI): Glen Inlu	Received by (SGS):
Print:	Print: Q.WILLIAMS
Signature:	Signature: QW
Date: 4/9/25	Date: 5/9/25 P.

Sampler's Comments:
pls cc Ricardo Lopes for results

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

eiaustralia
Contamination | Remediation | Geotechnical
Suite 6.01, 55 Miller Street,
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

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

SAMPLE RECEIPT ADVICE

Client Details

Client	EI Australia
Attention	Cleo Wu

Sample Login Details

Your reference	E26534 61 Marlborough St, Surry Hills
Envirolab Reference	390240
Date Sample Received	05/09/2025
Date Instructions Received	05/09/2025
Date Results Expected to be Reported	12/09/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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

Sample ID	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	HM in water - dissolved
QC01	✓	✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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 390240

Client Details

Client	EI Australia
Attention	Cleo Wu
Address	Suite 6.01, 55 Miller Street, Pyrmont, NSW, 2009

Sample Details

Your Reference	**E26534 61 Marlborough St, Surry Hills**
Number of Samples	1 Soil
Date samples received	05/09/2025
Date completed instructions received	05/09/2025

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.

Report Details

Date results requested by	12/09/2025
Date of Issue	11/09/2025

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Tabitha Roberts, Senior Chemist
Timothy Toll, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		390240-1
Your Reference	UNITS	QC01
Date Sampled		03/09/2025
Type of sample		Soil
Date extracted	-	08/09/2025
Date analysed	-	11/09/2025
TRH C_6 - C_9	mg/kg	<25
TRH C_6 - C_{10}	mg/kg	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	88

svTRH (C10-C40) in Soil		
Our Reference		390240-1
Your Reference	UNITS	QC01
Date Sampled		03/09/2025
Type of sample		Soil
Date extracted	-	08/09/2025
Date analysed	-	10/09/2025
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	%	79

Acid Extractable metals in soil		
Our Reference		390240-1
Your Reference	UNITS	QC01
Date Sampled		03/09/2025
Type of sample		Soil
Date prepared	-	10/09/2025
Date analysed	-	10/09/2025
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	3
Copper	mg/kg	15
Lead	mg/kg	120
Mercury	mg/kg	0.7
Nickel	mg/kg	2
Zinc	mg/kg	91

Moisture		
Our Reference		390240-1
Your Reference	UNITS	QC01
Date Sampled		03/09/2025
Type of sample		Soil
Date prepared	-	08/09/2025
Date analysed	-	09/09/2025
Moisture	%	7.9

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/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-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-6	[NT]
Date extracted	-			08/09/2025	[NT]	[NT]	[NT]	[NT]	08/09/2025	[NT]
Date analysed	-			11/09/2025	[NT]	[NT]	[NT]	[NT]	11/09/2025	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	115	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	115	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	117	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	111	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	116	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	97	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			08/09/2025	[NT]	[NT]	[NT]	[NT]	08/09/2025	[NT]
Date analysed	-			10/09/2025	[NT]	[NT]	[NT]	[NT]	10/09/2025	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	119	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	119	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	75	[NT]	[NT]	[NT]	[NT]	95	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date prepared	-			10/09/2025	[NT]	[NT]	[NT]	[NT]	10/09/2025	[NT]
Date analysed	-			10/09/2025	[NT]	[NT]	[NT]	[NT]	10/09/2025	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	96	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	89	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	117	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	92	[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.

Sheet _1_ of _1_

Site:	Project No:
61 Marlborough St, Surry Hills	E26534

Laboratory: Envirolab Services Sydney
12 Ashley St, Chatswood NSW
P: 02 9910 6200

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	SOIL	WATER	0.45 µm field filtered	OTHER	HM [A] /TRH (including F1, F2, F3, F4)/BTEX/ PAHs/ OCP/OP/PCB/Asbestos	HM [A] /TRH (including F1, F2, F3, F4)/ BTEX/PAHs	HM [A] /TRH (including F1, F2, F3, F4)/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification (500ml)	Asbestos 10L field screening	Excavated Natural Material (ENM) Suite	ENM Suite - Stockpile discrete (TRH/BTEX/PAHs)	ENM Suite - Stockpile composite (HM [A] /pH / EC / Foreign Materials)	Dewatering Suite	pH / pH peroxide	sPOCAS	Chromium Reducible Sulfur (CrS)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	Lead	TCLP HM [B] / PAH
QC01	1	J	3/9/25		X						X																	

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / TDU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 390240
390173
Date Received: 9/3/25
Time Received: 1630
Received By: QW
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

LABORATORY TURNAROUND

- [x] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other____

Container Type:
J = solvent washed, acid rinsed, Teflon sealed glass jar
S = solvent washed, acid rinsed glass bottle
P = natural HDPE plastic bottle
VC = glass vial, Teflon Septum
ZLB = Zip-Lock Bag BB = Bulk Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table ☐

Sampler's Name (EI): Glen Inlu	Received by (SGS):
Print:	Print: Q.WILLIAMS
Signature:	Signature: QW
Date: 4/9/25	Date: 5/9/25 P.

Sampler's Comments:
pls cc Ricardo Lopes for results

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

eiaustralia
Contamination | Remediation | Geotechnical
Suite 6.01, 55 Miller Street,
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Ricardo Lopes
Client	EI AUSTRALIA
Address	SUITE 6.01 55 MILLER STREET PYRMONT NSW 2009
Telephone	61 2 95160722
Facsimile	(Not specified)
Email	ricardo.lopes@eiaustralia.com.au
Project	**E26534 61 Marlborough St, Surry Hills**
Order Number	**E26534**
Samples	15

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE288901 R2**
Date Received	3/9/2025
Date Reported	12/9/2025

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

This report cancels and supersedes the report No. SE288901 R1 dated 12.09.2025 due to modifying Sample ID's (removal of letter "M" from samples BH104 - BH108). .

No respirable fibres detected in all soil samples using trace analysis technique.
Sample #8: Chrysotile asbestos found as approx 3.35g fibrous material.
Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Gemma MOON
Organic Chemist

Kamrul AHSAN
Senior Chemist

Ly Kim HA
Organic Section Head

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

Shane MCDERMOTT
Laboratory Manager

VOC's in Soil [AN433] Tested: 5/9/2025

PARAMETER	UOM	LOR	BH101M_0.4-0.5 SOIL - 2/9/2025 SE288901.001	BH101M_1.4-1.5 SOIL - 2/9/2025 SE288901.002	BH103M_0.5-0.6 SOIL - 3/9/2025 SE288901.003	BH103M_0.7-0.8 SOIL - 3/9/2025 SE288901.004	BH104_0.3-0.4 SOIL - 3/9/2025 SE288901.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	-	<1	-	<1
Chloromethane	mg/kg	1	<1	-	<1	-	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Bromomethane	mg/kg	1	<1	-	<1	-	<1
Chloroethane	mg/kg	1	<1	-	<1	-	<1
Trichlorofluoromethane	mg/kg	1	<1	-	<1	-	<1
Acetone (2-propanone)	mg/kg	10	<10	-	<10	-	<10
Iodomethane	mg/kg	5	<5	-	<5	-	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	-	<0.5	-	<0.5
Allyl chloride	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	-	<0.5	-	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Vinyl acetate*	mg/kg	10	<10	-	<10	-	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Chloroform (THM)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Dibromomethane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
2-nitropropane	mg/kg	10	<10	-	<10	-	<10
Bromodichloromethane (THM)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	-	<1	-	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Dibromochloromethane (THM)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
2-hexanone (MBK)	mg/kg	5	<5	-	<5	-	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Bromoform (THM)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	-	<1	-	<1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Bromobenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1

VOC's in Soil [AN433] Tested: 5/9/2025 (continued)

PARAMETER	UOM	LOR	BH101M_0.4-0.5 SOIL - 2/9/2025 SE288901.001	BH101M_1.4-1.5 SOIL - 2/9/2025 SE288901.002	BH103M_0.5-0.6 SOIL - 3/9/2025 SE288901.003	BH103M_0.7-0.8 SOIL - 3/9/2025 SE288901.004	BH104_0.3-0.4 SOIL - 3/9/2025 SE288901.005
n-propylbenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	-	<0.1	-	<0.1
Total VOC*	mg/kg	24	<24	-	<24	-	<24
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	-	<3.0	-	<3.0
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	-	<1.8	-	<1.8
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	-	<1.8	-	<1.8
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	-	<3.0	-	<3.0
MEK (2-butanone)	mg/kg	10	<10	-	<10	-	<10

VOC's in Soil [AN433] Tested: 5/9/2025 (continued)

PARAMETER	UOM	LOR	BH105_0.2-0.3 SOIL - 3/9/2025 SE288901.006	BH106_0.2-0.3 SOIL - 3/9/2025 SE288901.007	BH107_0.4-0.5 SOIL - 3/9/2025 SE288901.008	BH107_2.0-2.1 SOIL - 3/9/2025 SE288901.009	QA01 SOIL - 3/9/2025 SE288901.010
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	<1	-	-
Chloromethane	mg/kg	1	<1	<1	<1	-	-
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Bromomethane	mg/kg	1	<1	<1	<1	-	-
Chloroethane	mg/kg	1	<1	<1	<1	-	-
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	-	-
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	-	-
Iodomethane	mg/kg	5	<5	<5	<5	-	-
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	-	-
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	-	-
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Vinyl acetate*	mg/kg	10	<10	<10	<10	-	-
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Chloroform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
2-nitropropane	mg/kg	10	<10	<10	<10	-	-
Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	-	-
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	-	-
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	**0.2**	<0.1	<0.1	-	-
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Bromoform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	-	-
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-

VOC's in Soil [AN433] Tested: 5/9/2025 (continued)

PARAMETER	UOM	LOR	BH105_0.2-0.3 SOIL - 3/9/2025 SE288901.006	BH106_0.2-0.3 SOIL - 3/9/2025 SE288901.007	BH107_0.4-0.5 SOIL - 3/9/2025 SE288901.008	BH107_2.0-2.1 SOIL - 3/9/2025 SE288901.009	QA01 SOIL - 3/9/2025 SE288901.010
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	-	-
Total VOC*	mg/kg	24	<24	<24	<24	-	-
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0	<3.0	-	-
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	-	-
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	-	-
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0	<3.0	-	-
MEK (2-butanone)	mg/kg	10	<10	<10	<10	-	-

VOC's in Soil [AN433] Tested: 5/9/2025 (continued)

PARAMETER	UOM	LOR	TB SOIL - 3/9/2025 SE288901.011	TS SOIL - 3/9/2025 SE288901.012	BH102M_0.3-0.4 SOIL - 3/9/2025 SE288901.014	BH108_0.2-0.3 SOIL - 3/9/2025 SE288901.015
Benzene	mg/kg	0.1	<0.1	[106%]	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	[105%]	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	[104%]	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	[104%]	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	[105%]	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	-	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	-	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	-	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	-	-	-	<1
Chloromethane	mg/kg	1	-	-	-	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	-	-	-	<0.1
Bromomethane	mg/kg	1	-	-	-	<1
Chloroethane	mg/kg	1	-	-	-	<1
Trichlorofluoromethane	mg/kg	1	-	-	-	<1
Acetone (2-propanone)	mg/kg	10	-	-	-	<10
Iodomethane	mg/kg	5	-	-	-	<5
1,1-dichloroethene	mg/kg	0.1	-	-	-	<0.1
Acrylonitrile	mg/kg	0.1	-	-	-	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	-	-	-	<0.5
Allyl chloride	mg/kg	0.1	-	-	-	<0.1
Carbon disulfide	mg/kg	0.5	-	-	-	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	-	-	-	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	-	-	-	<0.1
1,1-dichloroethane	mg/kg	0.1	-	-	-	<0.1
Vinyl acetate*	mg/kg	10	-	-	-	<10
cis-1,2-dichloroethene	mg/kg	0.1	-	-	-	<0.1
Bromochloromethane	mg/kg	0.1	-	-	-	<0.1
Chloroform (THM)	mg/kg	0.1	-	-	-	<0.1
2,2-dichloropropane	mg/kg	0.1	-	-	-	<0.1
1,2-dichloroethane	mg/kg	0.1	-	-	-	<0.1
1,1,1-trichloroethane	mg/kg	0.1	-	-	-	<0.1
1,1-dichloropropene	mg/kg	0.1	-	-	-	<0.1
Carbon tetrachloride	mg/kg	0.1	-	-	-	<0.1
Dibromomethane	mg/kg	0.1	-	-	-	<0.1
1,2-dichloropropane	mg/kg	0.1	-	-	-	<0.1
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	-	-	-	<0.1
2-nitropropane	mg/kg	10	-	-	-	<10
Bromodichloromethane (THM)	mg/kg	0.1	-	-	-	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	-	-	-	<1
cis-1,3-dichloropropene	mg/kg	0.1	-	-	-	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	-	-	-	<0.1
1,1,2-trichloroethane	mg/kg	0.1	-	-	-	<0.1
1,3-dichloropropane	mg/kg	0.1	-	-	-	<0.1
Dibromochloromethane (THM)	mg/kg	0.1	-	-	-	<0.1
2-hexanone (MBK)	mg/kg	5	-	-	-	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	-	-	-	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	-	-	-	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	-	-	-	<0.1
Chlorobenzene	mg/kg	0.1	-	-	-	<0.1
Bromoform (THM)	mg/kg	0.1	-	-	-	<0.1
Styrene (Vinyl benzene)	mg/kg	0.1	-	-	-	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	-	-	-	<0.1
1,2,3-trichloropropane	mg/kg	0.1	-	-	-	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	-	-	-	<1
Isopropylbenzene (Cumene)	mg/kg	0.1	-	-	-	<0.1
Bromobenzene	mg/kg	0.1	-	-	-	<0.1

VOC's in Soil [AN433] Tested: 5/9/2025 (continued)

PARAMETER	UOM	LOR	TB SOIL - 3/9/2025 SE288901.011	TS SOIL - 3/9/2025 SE288901.012	BH102M_0.3-0.4 SOIL - 3/9/2025 SE288901.014	BH108_0.2-0.3 SOIL - 3/9/2025 SE288901.015
n-propylbenzene	mg/kg	0.1	-	-	-	<0.1
2-chlorotoluene	mg/kg	0.1	-	-	-	<0.1
4-chlorotoluene	mg/kg	0.1	-	-	-	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	-	-	-	<0.1
tert-butylbenzene	mg/kg	0.1	-	-	-	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	-	-	-	<0.1
sec-butylbenzene	mg/kg	0.1	-	-	-	<0.1
1,3-dichlorobenzene	mg/kg	0.1	-	-	-	<0.1
1,4-dichlorobenzene	mg/kg	0.1	-	-	-	<0.1
p-isopropyltoluene	mg/kg	0.1	-	-	-	<0.1
1,2-dichlorobenzene	mg/kg	0.1	-	-	-	<0.1
n-butylbenzene	mg/kg	0.1	-	-	-	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	-	-	-	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	-	-	-	<0.1
Hexachlorobutadiene	mg/kg	0.1	-	-	-	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	-	-	-	<0.1
Total VOC*	mg/kg	24	-	-	-	<24
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	-	-	-	<3.0
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	-	-	-	<1.8
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	-	-	-	<1.8
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	-	-	-	<3.0
MEK (2-butanone)	mg/kg	10	-	-	-	<10

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 5/9/2025

PARAMETER	UOM	LOR	BH101M_0.4-0.5 SOIL - 2/9/2025 SE288901.001	BH101M_1.4-1.5 SOIL - 2/9/2025 SE288901.002	BH103M_0.5-0.6 SOIL - 3/9/2025 SE288901.003	BH103M_0.7-0.8 SOIL - 3/9/2025 SE288901.004	BH104_0.3-0.4 SOIL - 3/9/2025 SE288901.005
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH105_0.2-0.3 SOIL - 3/9/2025 SE288901.006	BH106_0.2-0.3 SOIL - 3/9/2025 SE288901.007	BH107_0.4-0.5 SOIL - 3/9/2025 SE288901.008	BH107_2.0-2.1 SOIL - 3/9/2025 SE288901.009	QA01 SOIL - 3/9/2025 SE288901.010
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH102M_0.3-0.4 SOIL - 3/9/2025 SE288901.014	BH108_0.2-0.3 SOIL - 3/9/2025 SE288901.015
TRH C6-C9	mg/kg	20	<20	**70**
Benzene (F0)	mg/kg	0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	**88**
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	**88**

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 5/9/2025

PARAMETER	UOM	LOR	BH101M_0.4-0.5 SOIL - 2/9/2025 SE288901.001	BH101M_1.4-1.5 SOIL - 2/9/2025 SE288901.002	BH103M_0.5-0.6 SOIL - 3/9/2025 SE288901.003	BH103M_0.7-0.8 SOIL - 3/9/2025 SE288901.004	BH104_0.3-0.4 SOIL - 3/9/2025 SE288901.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	**180**	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	**320**	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	**450**	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	**130**	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	**500**	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	**570**	<210	<210

PARAMETER	UOM	LOR	BH105_0.2-0.3 SOIL - 3/9/2025 SE288901.006	BH106_0.2-0.3 SOIL - 3/9/2025 SE288901.007	BH107_0.4-0.5 SOIL - 3/9/2025 SE288901.008	BH107_2.0-2.1 SOIL - 3/9/2025 SE288901.009	QA01 SOIL - 3/9/2025 SE288901.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	**410**	<45	**53**
TRH C29-C36	mg/kg	45	<45	<45	**440**	<45	**45**
TRH C37-C40	mg/kg	100	<100	<100	**150**	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	**760**	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	**230**	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	**840**	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	**990**	<210	<210

PARAMETER	UOM	LOR	BH102M_0.3-0.4 SOIL - 3/9/2025 SE288901.014	BH108_0.2-0.3 SOIL - 3/9/2025 SE288901.015
TRH C10-C14	mg/kg	20	<20	**73**
TRH C15-C28	mg/kg	45	**83**	<45
TRH C29-C36	mg/kg	45	**96**	<45
TRH C37-C40	mg/kg	100	<100	<100
TRH >C10-C16	mg/kg	25	<25	**48**
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	**48**
TRH >C16-C34 (F3)	mg/kg	90	**160**	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120
TRH C10-C36 Total	mg/kg	110	**180**	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 5/9/2025

PARAMETER	UOM	LOR	BH101M_0.4-0.5 SOIL - 2/9/2025 SE288901.001	BH101M_1.4-1.5 SOIL - 2/9/2025 SE288901.002	BH103M_0.5-0.6 SOIL - 3/9/2025 SE288901.003	BH103M_0.7-0.8 SOIL - 3/9/2025 SE288901.004	BH104_0.3-0.4 SOIL - 3/9/2025 SE288901.005
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	0.2	<0.1	0.3	<0.1	0.8
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.2
Fluoranthene	mg/kg	0.1	0.4	<0.1	0.9	<0.1	1.4
Pyrene	mg/kg	0.1	0.4	<0.1	1.1	<0.1	1.4
Benzo(a)anthracene	mg/kg	0.1	0.3	<0.1	0.8	<0.1	0.8
Chrysene	mg/kg	0.1	0.2	<0.1	0.8	<0.1	0.9
Benzo(b&j)fluoranthene	mg/kg	0.1	0.3	<0.1	0.7	<0.1	0.8
Benzo(k)fluoranthene	mg/kg	0.1	0.3	<0.1	0.7	<0.1	0.7
Benzo(a)pyrene	mg/kg	0.1	0.4	<0.1	1.2	<0.1	1.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.3	<0.1	0.9	<0.1	0.9
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	0.2	<0.1	0.1
Benzo(ghi)perylene	mg/kg	0.1	0.2	<0.1	0.6	<0.1	0.6
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	0.5	<0.2	1.7	<0.2	1.6
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	0.6	<0.3	1.7	<0.3	1.6
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	0.5	<0.2	1.7	<0.2	1.6
Total PAH (18)	mg/kg	0.8	3.0	<0.8	8.1	<0.8	9.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	3.0	<0.8	8.1	<0.8	9.8

PARAMETER	UOM	LOR	BH105_0.2-0.3 SOIL - 3/9/2025 SE288901.006	BH106_0.2-0.3 SOIL - 3/9/2025 SE288901.007	BH107_0.4-0.5 SOIL - 3/9/2025 SE288901.008	BH107_2.0-2.1 SOIL - 3/9/2025 SE288901.009	BH102M_0.3-0.4 SOIL - 3/9/2025 SE288901.014
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.4
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.7
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.6
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.4
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.3
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	0.1	<0.1	0.2
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.3
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.3
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	0.2
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	0.5
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	0.6
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	0.5
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	3.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	3.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 5/9/2025 (continued)

PARAMETER	UOM	LOR	BH108_0.2-0.3 SOIL - 3/9/2025 SE288901.015
Naphthalene	mg/kg	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1
Fluorene	mg/kg	0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1
Pyrene	mg/kg	0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1
Chrysene	mg/kg	0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8

OC Pesticides in Soil [AN420] Tested: 5/9/2025

PARAMETER	UOM	LOR	BH101M_0.4-0.5 SOIL - 2/9/2025 SE288901.001	BH103M_0.5-0.6 SOIL - 3/9/2025 SE288901.003	BH104_0.3-0.4 SOIL - 3/9/2025 SE288901.005	BH105_0.2-0.3 SOIL - 3/9/2025 SE288901.006	BH106_0.2-0.3 SOIL - 3/9/2025 SE288901.007
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	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
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 5/9/2025 (continued)

PARAMETER	UOM	LOR	BH107_0.4-0.5 SOIL - 3/9/2025 SE288901.008	BH108_0.2-0.3 SOIL - 3/9/2025 SE288901.015
Alpha BHC	mg/kg	0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1

OP Pesticides in Soil [AN420] Tested: 5/9/2025

PARAMETER	UOM	LOR	BH101M_0.4-0.5 SOIL - 2/9/2025 SE288901.001	BH103M_0.5-0.6 SOIL - 3/9/2025 SE288901.003	BH104_0.3-0.4 SOIL - 3/9/2025 SE288901.005	BH105_0.2-0.3 SOIL - 3/9/2025 SE288901.006	BH106_0.2-0.3 SOIL - 3/9/2025 SE288901.007
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH107_0.4-0.5 SOIL - 3/9/2025 SE288901.008	BH108_0.2-0.3 SOIL - 3/9/2025 SE288901.015
Dichlorvos	mg/kg	0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7

PCBs in Soil [AN420] Tested: 5/9/2025

PARAMETER	UOM	LOR	BH101M_0.4-0.5 SOIL - 2/9/2025 SE288901.001	BH103M_0.5-0.6 SOIL - 3/9/2025 SE288901.003	BH104_0.3-0.4 SOIL - 3/9/2025 SE288901.005	BH105_0.2-0.3 SOIL - 3/9/2025 SE288901.006	BH106_0.2-0.3 SOIL - 3/9/2025 SE288901.007
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH107_0.4-0.5 SOIL - 3/9/2025 SE288901.008	BH108_0.2-0.3 SOIL - 3/9/2025 SE288901.015
Arochlor 1016	mg/kg	0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	**0.3**	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	**0.3**	<0.1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 5/9/2025

PARAMETER	UOM	LOR	BH101M_0.4-0.5 SOIL - 2/9/2025 SE288901.001	BH101M_1.4-1.5 SOIL - 2/9/2025 SE288901.002	BH103M_0.5-0.6 SOIL - 3/9/2025 SE288901.003	BH103M_0.7-0.8 SOIL - 3/9/2025 SE288901.004	BH104_0.3-0.4 SOIL - 3/9/2025 SE288901.005
Arsenic, As	mg/kg	1	2	3	2	20	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	2.7	17	3.4	20	1.2
Copper, Cu	mg/kg	0.5	12	14	18	3.9	9.9
Lead, Pb	mg/kg	1	160	19	49	16	69
Nickel, Ni	mg/kg	0.5	9.1	1.2	7.9	<0.5	1.2
Zinc, Zn	mg/kg	2	84	11	33	7.1	61

PARAMETER	UOM	LOR	BH105_0.2-0.3 SOIL - 3/9/2025 SE288901.006	BH106_0.2-0.3 SOIL - 3/9/2025 SE288901.007	BH107_0.4-0.5 SOIL - 3/9/2025 SE288901.008	BH107_2.0-2.1 SOIL - 3/9/2025 SE288901.009	QA01 SOIL - 3/9/2025 SE288901.010
Arsenic, As	mg/kg	1	2	2	3	4	1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	100	84	11	6.6	0.7
Copper, Cu	mg/kg	0.5	23	29	11	34	6.7
Lead, Pb	mg/kg	1	6	12	30	12	160
Nickel, Ni	mg/kg	0.5	79	72	4.2	4.4	0.8
Zinc, Zn	mg/kg	2	67	58	69	45	49

PARAMETER	UOM	LOR	BH102M_0.3-0.4 SOIL - 3/9/2025 SE288901.014	BH108_0.2-0.3 SOIL - 3/9/2025 SE288901.015
Arsenic, As	mg/kg	1	4	11
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	10	5.7
Copper, Cu	mg/kg	0.5	14	25
Lead, Pb	mg/kg	1	130	25
Nickel, Ni	mg/kg	0.5	3.0	12
Zinc, Zn	mg/kg	2	59	82

Mercury in Soil [AN312] Tested: 5/9/2025

PARAMETER	UOM	LOR	BH101M_0.4-0.5 SOIL - 2/9/2025 SE288901.001	BH101M_1.4-1.5 SOIL - 2/9/2025 SE288901.002	BH103M_0.5-0.6 SOIL - 3/9/2025 SE288901.003	BH103M_0.7-0.8 SOIL - 3/9/2025 SE288901.004	BH104_0.3-0.4 SOIL - 3/9/2025 SE288901.005
Mercury	mg/kg	0.05	**0.12**	<0.05	<0.05	<0.05	**0.42**

PARAMETER	UOM	LOR	BH105_0.2-0.3 SOIL - 3/9/2025 SE288901.006	BH106_0.2-0.3 SOIL - 3/9/2025 SE288901.007	BH107_0.4-0.5 SOIL - 3/9/2025 SE288901.008	BH107_2.0-2.1 SOIL - 3/9/2025 SE288901.009	QA01 SOIL - 3/9/2025 SE288901.010
Mercury	mg/kg	0.05	<0.05	<0.05	**0.12**	<0.05	**0.29**

PARAMETER	UOM	LOR	BH102M_0.3-0.4 SOIL - 3/9/2025 SE288901.014	BH108_0.2-0.3 SOIL - 3/9/2025 SE288901.015
Mercury	mg/kg	0.05	**0.13**	<0.05

Moisture Content [AN002] Tested: 5/9/2025

PARAMETER	UOM	LOR	BH101M_0.4-0.5 SOIL - 2/9/2025 SE288901.001	BH101M_1.4-1.5 SOIL - 2/9/2025 SE288901.002	BH103M_0.5-0.6 SOIL - 3/9/2025 SE288901.003	BH103M_0.7-0.8 SOIL - 3/9/2025 SE288901.004	BH104_0.3-0.4 SOIL - 3/9/2025 SE288901.005
% Moisture	%w/w	1	5.4	21.8	12.7	21.6	6.4

PARAMETER	UOM	LOR	BH105_0.2-0.3 SOIL - 3/9/2025 SE288901.006	BH106_0.2-0.3 SOIL - 3/9/2025 SE288901.007	BH107_0.4-0.5 SOIL - 3/9/2025 SE288901.008	BH107_2.0-2.1 SOIL - 3/9/2025 SE288901.009	QA01 SOIL - 3/9/2025 SE288901.010
% Moisture	%w/w	1	10.7	12.9	12.7	17.1	6.6

PARAMETER	UOM	LOR	TB SOIL - 3/9/2025 SE288901.011	BH102M_0.3-0.4 SOIL - 3/9/2025 SE288901.014	BH108_0.2-0.3 SOIL - 3/9/2025 SE288901.015
% Moisture	%w/w	1	<1.0	15.4	13.8

Fibre Identification in soil [AS4964/AN602] Tested: 8/9/2025

PARAMETER	UOM	LOR	BH101M_0.4-0.5 SOIL - 2/9/2025 SE288901.001	BH103M_0.5-0.6 SOIL - 3/9/2025 SE288901.003	BH104_0.3-0.4 SOIL - 3/9/2025 SE288901.005	BH105_0.2-0.3 SOIL - 3/9/2025 SE288901.006	BH106_0.2-0.3 SOIL - 3/9/2025 SE288901.007
Date Analysed*	No unit	-	09/09/2025 00:00	09/09/2025 00:00	09/09/2025 00:00	09/09/2025 00:00	09/09/2025 00:00
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	BH107_0.4-0.5 SOIL - 3/9/2025 SE288901.008	BH108_0.2-0.3 SOIL - 3/9/2025 SE288901.015
Date Analysed*	No unit	-	09/09/2025 00:00	09/09/2025 00:00
Asbestos Detected	No unit	-	Yes	No
Estimated Fibres*	%w/w	0.01	**>0.01**	<0.01

VOCs in Water [AN433] Tested: 5/9/2025

PARAMETER	UOM	LOR	QR1 WATER - 3/9/2025 SE288901.013
Benzene	µg/L	0.5	<0.5
Toluene	µg/L	0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5
m/p-xylene	µg/L	1	<1
o-xylene	µg/L	0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5
Total BTEX	µg/L	3	<3
Naphthalene (VOC)*	µg/L	0.5	<0.5

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 5/9/2025

PARAMETER	UOM	LOR	QR1 WATER - 3/9/2025 SE288901.013
TRH C6-C9	µg/L	40	<40
Benzene (F0)	µg/L	0.5	<0.5
TRH C6-C10	µg/L	50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 5/9/2025

PARAMETER	UOM	LOR	QR1 WATER - 3/9/2025 SE288901.013
TRH C10-C14	µg/L	50	<50
TRH C15-C28	µg/L	200	<200
TRH C29-C36	µg/L	200	<200
TRH C37-C40	µg/L	200	<200
TRH >C10-C16	µg/L	60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60
TRH >C16-C34 (F3)	µg/L	500	<500
TRH >C34-C40 (F4)	µg/L	500	<500
TRH C10-C40	µg/L	320	<320

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 8/9/2025

PARAMETER	UOM	LOR	QR1 WATER - 3/9/2025 SE288901.013
Arsenic	µg/L	1	<1
Cadmium	µg/L	0.1	<0.1
Chromium	µg/L	1	<1
Copper	µg/L	1	<1
Lead	µg/L	1	<1
Nickel	µg/L	1	<1
Zinc	µg/L	5	<5

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 5/9/2025

PARAMETER	UOM	LOR	QR1 WATER - 3/9/2025 SE288901.013
Mercury, Hg	mg/L	0.0001	<0.0001

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by AAS or ICP as per USEPA Method 200.8.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid , mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser . Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents .
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting .
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS /ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602/AS4964	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602/AS4964	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602/AS4964	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

AN602/AS4964	The sample can be reported “no asbestos found at the reporting limit (RL) of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (a) no trace asbestos fibres have been detected (i.e. no ‘respirable’ fibres): (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		
***	Indicates that both * and ** apply.				

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety .

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ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Ricardo Lopes
Client	EI AUSTRALIA
Address	SUITE 6.01 55 MILLER STREET PYRMONT NSW 2009
Telephone	61 2 95160722
Facsimile	(Not specified)
Email	ricardo.lopes@eiaustralia.com.au
Project	**E26534 61 Marlborough St, Surry Hills**
Order Number	**E26534**
Samples	7

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE288901 R2**
Date Received	03 Sep 2025
Date Reported	12 Sep 2025

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

This report cancels and supersedes the report No. SE288901 R1 dated 12.09.2025 due to modifying Sample ID's (removal of letter "M" from samples BH104 - BH108). .

No respirable fibres detected in all soil samples using trace analysis technique.
Sample #8: Chrysotile asbestos found as approx 3.35g fibrous material.
Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

RESULTS

Fibre Identification in soil — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Date Analysed	Fibre Identification	Est.%w/w*
SE288901.001	BH101M_0.4-0.5	Soil	174g Sand, Soil, Rocks	02 Sep 2025	09 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE288901.003	BH103M_0.5-0.6	Soil	235g Clay, Sand, Rocks	03 Sep 2025	09 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE288901.005	BH104_0.3-0.4	Soil	176g Sand, Soil, Rocks	03 Sep 2025	09 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE288901.006	BH105_0.2-0.3	Soil	346g Sand, Soil, Rocks	03 Sep 2025	09 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE288901.007	BH106_0.2-0.3	Soil	287g Sand, Soil, Rocks	03 Sep 2025	09 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE288901.008	BH107_0.4-0.5	Soil	112g Clay, Sand, Rocks	03 Sep 2025	09 Sep 2025	Chrysotile Asbestos Found at RL of 0.1g/kg	>0.01
SE288901.015	BH108_0.2-0.3	Soil	255g Clay, Sand, Rocks	03 Sep 2025	09 Sep 2025	No Asbestos Found at RL of 0.1g/kg	<0.01

METHOD SUMMARY

SE288901 R2

METHOD	METHODOLOGY SUMMARY
AN602/AS4964	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602/AS4964	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602/AS4964	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples , Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602/AS4964	The sample can be reported “no asbestos found at the reporting limit (RL) of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (a) no trace asbestos fibres have been detected (i.e. no ‘respirable ’ fibres): (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	NATA accreditation does not cover the performance of this service .
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.
			***	-	Indicates that both * and ** apply.

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.
Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy , including dispersion staining.
Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos -containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety .

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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E-MAILED
4/9 0 3.24p

Sheet _1_ of 2

Site:	Project No:
61 Marlborough St, Surry Hills	E26534

Laboratory: SGS Australia
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	Sample Matrix: SOIL	WATER	0.45 µm field filtered	OTHER	Analysis: HM [A] /TRH (including F1, F2, F3, F4)/BTEX/ PAHs/ OCP/OP/PCB/Asbestos	HM [A] /TRH (including F1, F2, F3, F4)/ BTEX/PAHs	HM [A] /TRH (including F1, F2, F3, F4)/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification (500ml)	Asbestos 10L field screening	Excavated Natural Material (ENM) Suite	ENM Suite - Stockpile discrete (TRH/BTEX/PAHs)	ENM Suite - Stockpile composite (HM [A] /pH / EC / Foreign Materials)	Dewatering Suite	pH / pH peroxide	sPOCAS	Chromium Reducible Sulfur (CrS)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	Lead	TCLP HM [B] / PAH
BH101M_0.4-0.5	1	ZLB, J	2/9/25	D/P	X				X				X															
BH101M_1.4-1.5	2		2/9/25							X																		
BH103M_0.5-0.6	3								X				X															
BH103M_0.7-0.8	4									X																		
BH104_0.3-0.4	5								X				X															
BH104_2.9-3.0																												
BH105_0.2-0.3	6								X				X															
BH105_0.5-0.6																												
BH106_0.2-0.3	7								X				X															
BH106_0.5-0.6																												
BH107_0.4-0.5	8								X				X															
BH107_2.0-2.1	9	↓	↓	↓	↓					X																		

SGS EHS Sydney COC
SE288901

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / TDU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND
- [X] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other____

Container Type:
J = solvent washed, acid rinsed, Teflon sealed glass jar
S = solvent washed, acid rinsed glass bottle
P = natural HDPE plastic bottle
VC = glass vial, Teflon Septum
ZLB = Zip-Lock Bag BB = Bulk Bag

eiaustralia
Suite 6.01, 55 Miller Street,
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au
COC June 2021 FORM v 5 - SGS

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table [X]

Sampler's Name (EI):	Received by (SGS):	Sampler's Comments:
Print: Cleo Wu. Ricardo Lopes	Print:	Results plz cc Ricardo Lopes
Signature:	Signature: S. Subany	
Date: 4/9/25	Date: 03/09/25 @ 3:35	

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

source: Sydney_routine_coc_250904_161051.pdf page:3 SGS Ref: SE288901_COC

Sheet 1 of 1

Site:	Project No:
61 Marlborough St, Surry Hills	E26534

Laboratory: SGS Australia
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	Sample Matrix: SOIL	WATER	0.45 µm field filtered	OTHER	Analysis: HM ^ /TRH (including F1, F2, F3, F4)/BTEX/ PAHs/ OCP/OP/PCB/Asbestos	HM ^ /TRH (including F1, F2, F3, F4)/ BTEX/PAHs	HM ^ /TRH (including F1, F2, F3, F4)/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification (500ml)	Asbestos 10L field screening	Excavated Natural Material (ENM) Suite	ENM Suite - Stockpile discrete (TRH/BTEX/PAHs)	ENM Suite - Stockpile composite (HM ^ /pH / EC / Foreign Materials)	Dewatering Suite	pH / pH peroxide	sPOCAS	Chromium Reducible Sulfur (Cr/S)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	Lead	TCLP HM ® / PAH
QA01	10	J	3/9/25		X						X																	
QA02		J			X																							
TB	11	VC			X							X																
TS	12	VC			X							X																
QRB1		VC, P				X																						
QR1	13										X																	
BH102M_0.3-0.4	14	JZLB								X																		
BH108_02-0.3	15								X				X															

Comments

HM ® Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Zinc

HM ® Arsenic, Cadmium, Chromium, Lead, Mercury, Nickel

Dewatering Suite: pH & EC, TDS / TDU, Hardness, Total Cyanide, Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn), TRH (F1, F2, F3, F4), BTEX, PAH, Total Phenol

LABORATORY TURNAROUND

- [x] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other____

Container Type:
J = solvent washed, acid rinsed, Teflon sealed glass jar
S = solvent washed, acid rinsed glass bottle
P = natural HDPE plastic bottle
VC = glass vial, Teflon Septum
ZLB = Zip-Lock Bag BB = Bulk Bag

eiaustralia
Suite 6.01, 55 Miller Street,
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

COC June 2021 FORM v5 - SGS

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Name (EI):	Received by (SGS):
Print	Print
Signature	Signature
Date	Date 03/09/25 @ 3:35

Report with EI Waste Classification Table ☐

Sampler's Comments:

* Plz send QC01 → Envirolab. CoC attached.
QRB1 on hold

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Geisiane Torres
Client	EI AUSTRALIA
Address	SUITE 6.01 55 MILLER STREET PYRMONT NSW 2009
Telephone	61 2 95160722
Facsimile	(Not specified)
Email	Geisiane.Torres @eiaustralia.com.au
Project	**E26534 61 Marlborough St, Surry Hills**
Order Number	**E26534**
Samples	7

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE289786 R0**
Date Received	19/9/2025
Date Reported	29/9/2025

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Gemma MOON
Organic Chemist

Ly Kim HA
Organic Section Head

Tim MEEYAN
Microbiologist

Ying Ying ZHANG
Laboratory Technician

VOCs in Water [AN433] Tested: 22/9/2025

PARAMETER	UOM	LOR	GW_BH101M_1 WATER - 18/9/2025 SE289786.001	GW_BH102M_1 WATER - 18/9/2025 SE289786.002	GW_BH103M_1 WATER - 18/9/2025 SE289786.003	GW_BH100_QD1 WATER - 18/9/2025 SE289786.004	GW_BH100_QR1 WATER - 18/9/2025 SE289786.005
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	**1.5**	**1.4**	**1.0**	**1.0**	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	**1**	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	<3	<3	<3
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	<5	<5	-	-
Chloromethane	µg/L	5	<5	<5	<5	-	-
Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	<0.3	<0.3	-	-
Bromomethane	µg/L	10	<10	<10	<10	-	-
Chloroethane	µg/L	5	<5	<5	<5	-	-
Trichlorofluoromethane	µg/L	1	<1	<1	<1	-	-
Acetone (2-propanone)	µg/L	10	<10	<10	<10	-	-
Iodomethane	µg/L	5	<5	<5	<5	-	-
1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Acrylonitrile	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Dichloromethane (Methylene chloride)	µg/L	5	<5	<5	<5	-	-
Allyl chloride	µg/L	2	<2	<2	<2	-	-
Carbon disulfide	µg/L	2	<2	<2	**3**	-	-
trans-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,1-dichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Vinyl acetate*	µg/L	10	<10	<10	<10	-	-
MEK (2-butanone)	µg/L	10	<10	<10	<10	-	-
cis-1,2-dichloroethene	µg/L	0.5	<0.5	**30**	<0.5	-	-
Bromochloromethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Chloroform (THM)	µg/L	0.5	**0.6**	<0.5	**3.9**	-	-
2,2-dichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2-dichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,1,1-trichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,1-dichloropropene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Carbon tetrachloride	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Dibromomethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2-dichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	**0.6**	<0.5	-	-
2-nitropropane	µg/L	100	<100	<100	<100	-	-
Bromodichloromethane (THM)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
MIBK (4-methyl-2-pentanone)	µg/L	5	<5	<5	<5	-	-
cis-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
trans-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,1,2-trichloroethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,3-dichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Dibromochloromethane (THM)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
2-hexanone (MBK)	µg/L	5	<5	<5	<5	-	-
1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Chlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Bromoform (THM)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Styrene (Vinyl benzene)	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2,3-trichloropropane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
trans-1,4-dichloro-2-butene	µg/L	1	<1	<1	<1	-	-
Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	**1.4**	<0.5	-	-

VOCs in Water [AN433] Tested: 22/9/2025 (continued)

PARAMETER	UOM	LOR	GW_BH101M_1 WATER - 18/9/2025 SE289786.001	GW_BH102M_1 WATER - 18/9/2025 SE289786.002	GW_BH103M_1 WATER - 18/9/2025 SE289786.003	GW_BH100_QD1 WATER - 18/9/2025 SE289786.004	GW_BH100_QR1 WATER - 18/9/2025 SE289786.005
Bromobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
n-propylbenzene	µg/L	0.5	<0.5	**3.4**	<0.5	-	-
2-chlorotoluene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
4-chlorotoluene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,3,5-trimethylbenzene	µg/L	0.5	<0.5	**34**	<0.5	-	-
tert-butylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2,4-trimethylbenzene	µg/L	0.5	<0.5	**37**	**0.5**	-	-
sec-butylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,3-dichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,4-dichlorobenzene	µg/L	0.3	<0.3	<0.3	<0.3	-	-
p-isopropyltoluene	µg/L	0.5	<0.5	**2.6**	<0.5	-	-
1,2-dichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
n-butylbenzene	µg/L	0.5	<0.5	**1.3**	<0.5	-	-
1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2,4-trichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Hexachlorobutadiene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2,3-trichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Total VOC	µg/L	10	<10	**110**	<10	-	-

VOCs in Water [AN433] Tested: 22/9/2025 (continued)

PARAMETER	UOM	LOR	Trip Blank WATER - 19/9/2025 SE289786.006	Trip Spike WATER - 19/9/2025 SE289786.007
Benzene	µg/L	0.5	<0.5	[99%]
Toluene	µg/L	0.5	<0.5	[99%]
Ethylbenzene	µg/L	0.5	<0.5	[98%]
m/p-xylene	µg/L	1	<1	[99%]
o-xylene	µg/L	0.5	<0.5	[98%]
Total Xylenes	µg/L	1.5	<1.5	-
Total BTEX	µg/L	3	<3	-
Naphthalene (VOC)*	µg/L	0.5	<0.5	[96%]
Dichlorodifluoromethane (CFC-12)	µg/L	5	-	-
Chloromethane	µg/L	5	-	-
Vinyl chloride (Chloroethene)	µg/L	0.3	-	-
Bromomethane	µg/L	10	-	-
Chloroethane	µg/L	5	-	-
Trichlorofluoromethane	µg/L	1	-	-
Acetone (2-propanone)	µg/L	10	-	-
Iodomethane	µg/L	5	-	-
1,1-dichloroethene	µg/L	0.5	-	-
Acrylonitrile	µg/L	0.5	-	-
Dichloromethane (Methylene chloride)	µg/L	5	-	-
Allyl chloride	µg/L	2	-	-
Carbon disulfide	µg/L	2	-	-
trans-1,2-dichloroethene	µg/L	0.5	-	-
MtBE (Methyl-tert-butyl ether)	µg/L	0.5	-	-
1,1-dichloroethane	µg/L	0.5	-	-
Vinyl acetate*	µg/L	10	-	-
MEK (2-butanone)	µg/L	10	-	-
cis-1,2-dichloroethene	µg/L	0.5	-	-
Bromochloromethane	µg/L	0.5	-	-
Chloroform (THM)	µg/L	0.5	-	-
2,2-dichloropropane	µg/L	0.5	-	-
1,2-dichloroethane	µg/L	0.5	-	-
1,1,1-trichloroethane	µg/L	0.5	-	-
1,1-dichloropropene	µg/L	0.5	-	-
Carbon tetrachloride	µg/L	0.5	-	-
Dibromomethane	µg/L	0.5	-	-
1,2-dichloropropane	µg/L	0.5	-	-
Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	-	-
2-nitropropane	µg/L	100	-	-
Bromodichloromethane (THM)	µg/L	0.5	-	-
MIBK (4-methyl-2-pentanone)	µg/L	5	-	-
cis-1,3-dichloropropene	µg/L	0.5	-	-
trans-1,3-dichloropropene	µg/L	0.5	-	-
1,1,2-trichloroethane	µg/L	0.5	-	-
1,3-dichloropropane	µg/L	0.5	-	-
Dibromochloromethane (THM)	µg/L	0.5	-	-
2-hexanone (MBK)	µg/L	5	-	-
1,2-dibromoethane (EDB)	µg/L	0.5	-	-
Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	-	-
1,1,1,2-tetrachloroethane	µg/L	0.5	-	-
Chlorobenzene	µg/L	0.5	-	-
Bromoform (THM)	µg/L	0.5	-	-
Styrene (Vinyl benzene)	µg/L	0.5	-	-
1,1,2,2-tetrachloroethane	µg/L	0.5	-	-
1,2,3-trichloropropane	µg/L	0.5	-	-
trans-1,4-dichloro-2-butene	µg/L	1	-	-
Isopropylbenzene (Cumene)	µg/L	0.5	-	-

VOCs in Water [AN433] Tested: 22/9/2025 (continued)

PARAMETER	UOM	LOR	Trip Blank WATER - 19/9/2025 SE289786.006	Trip Spike WATER - 19/9/2025 SE289786.007
Bromobenzene	µg/L	0.5	-	-
n-propylbenzene	µg/L	0.5	-	-
2-chlorotoluene	µg/L	0.5	-	-
4-chlorotoluene	µg/L	0.5	-	-
1,3,5-trimethylbenzene	µg/L	0.5	-	-
tert-butylbenzene	µg/L	0.5	-	-
1,2,4-trimethylbenzene	µg/L	0.5	-	-
sec-butylbenzene	µg/L	0.5	-	-
1,3-dichlorobenzene	µg/L	0.5	-	-
1,4-dichlorobenzene	µg/L	0.3	-	-
p-isopropyltoluene	µg/L	0.5	-	-
1,2-dichlorobenzene	µg/L	0.5	-	-
n-butylbenzene	µg/L	0.5	-	-
1,2-dibromo-3-chloropropane	µg/L	0.5	-	-
1,2,4-trichlorobenzene	µg/L	0.5	-	-
Hexachlorobutadiene	µg/L	0.5	-	-
1,2,3-trichlorobenzene	µg/L	0.5	-	-
Total VOC	µg/L	10	-	-

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 22/9/2025

PARAMETER	UOM	LOR	GW_BH101M_1 WATER - 18/9/2025 SE289786.001	GW_BH102M_1 WATER - 18/9/2025 SE289786.002	GW_BH103M_1 WATER - 18/9/2025 SE289786.003	GW_BH100_QD1 WATER - 18/9/2025 SE289786.004	GW_BH100_QR1 WATER - 18/9/2025 SE289786.005
TRH C6-C9	µg/L	40	<40	**230**	<40	<40	<40
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	50	<50	**260**	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	**260**	<50	<50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 21/9/2025

PARAMETER	UOM	LOR	GW_BH101M_1 WATER - 18/9/2025 SE289786.001	GW_BH102M_1 WATER - 18/9/2025 SE289786.002	GW_BH103M_1 WATER - 18/9/2025 SE289786.003	GW_BH100_QD1 WATER - 18/9/2025 SE289786.004	GW_BH100_QR1 WATER - 18/9/2025 SE289786.005
TRH C10-C14	µg/L	50	**75**	**270**	**100**	**57**	<50
TRH C15-C28	µg/L	200	<200	**330**	**320**	<200	<200
TRH C29-C36	µg/L	200	<200	<200	**230**	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200	<200
TRH >C10-C16	µg/L	60	**82**	**290**	**120**	**64**	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	**81**	**290**	**120**	**64**	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500	**510**	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500	<500
TRH C10-C40	µg/L	320	<320	**690**	**670**	<320	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 21/9/2025

PARAMETER	UOM	LOR	GW_BH101M_1 WATER - 18/9/2025 SE289786.001	GW_BH102M_1 WATER - 18/9/2025 SE289786.002	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Naphthalene	µg/L	0.1	<0.1	**0.3**	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	-

OC Pesticides in Water [AN420] Tested: 21/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Alpha BHC	µg/L	0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
Beta BHC	µg/L	0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1
Delta BHC	µg/L	0.1	<0.1
Heptachlor	µg/L	0.1	<0.1
Aldrin	µg/L	0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1
Dieldrin	µg/L	0.1	<0.1
Endrin	µg/L	0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1
Mirex	µg/L	0.1	<0.1
Total OC	µg/L	1	<1
Total OC	µg/L	1	<1
Total Other OC VIC EPA	µg/L	1	<1

OP Pesticides in Water [AN420] Tested: 21/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Azinphos-methyl	µg/L	0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
Diazinon (Dimpylate)	µg/L	0.5	<0.5
Dichlorvos	µg/L	0.5	<0.5
Dimethoate	µg/L	0.5	<0.5
Ethion	µg/L	0.2	<0.2
Fenitrothion	µg/L	0.2	<0.2
Malathion	µg/L	0.2	<0.2
Methidathion	µg/L	0.5	<0.5
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2

PCBs in Water [AN420] Tested: 21/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Arochlor 1016	µg/L	1	<1
Arochlor 1221	µg/L	1	<1
Arochlor 1232	µg/L	1	<1
Arochlor 1242	µg/L	1	<1
Arochlor 1248	µg/L	1	<1
Arochlor 1254	µg/L	1	<1
Arochlor 1260	µg/L	1	<1
Total Arochlors*	µg/L	5	<5

Full 8270 SVOC in Water [AN420] Tested: 21/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Acenaphthene	µg/L	0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1
Anthracene	µg/L	0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1
Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1
Chrysene	µg/L	0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1
Fluorene	µg/L	0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1
Naphthalene	µg/L	0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1
Pyrene	µg/L	0.1	<0.1
2-acetylaminofluorene	µg/L	0.5	<0.5
7,12-dimethyl-benz(a)anthracene	µg/L	0.5	<0.5
3-methylcholanthrene	µg/L	0.5	<0.5
Aldrin	µg/L	0.1	<0.1
Alpha-BHC	µg/L	0.1	<0.1
Beta-BHC	µg/L	0.1	<0.1
Delta-BHC	µg/L	0.1	<0.1
Gamma-BHC (Lindane)	µg/L	0.1	<0.1
p,p-DDD	µg/L	0.1	<0.1
p,p-DDE	µg/L	0.1	<0.1
p,p-DDT	µg/L	0.1	<0.1
Dieldrin	µg/L	0.1	<0.1
Alpha-endosulfan	µg/L	0.1	<0.1
Beta-endosulfan	µg/L	0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1
Endrin	µg/L	0.1	<0.1
Heptachlor	µg/L	0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1
Mirex	µg/L	0.1	<0.1
Alpha-chlordane	µg/L	0.1	<0.1
Gamma-chlordane	µg/L	0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1
Azinphos-methyl (Guthion)	µg/L	0.2	<0.2
Bromophos ethyl	µg/L	0.2	<0.2
Carbophenothion	µg/L	0.5	<0.5
Chlorfenvinphos-cis	µg/L	5	<5
Chlorfenvinphos-trans	µg/L	0.5	<0.5
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
Chlorpyrifos-methyl	µg/L	0.5	<0.5
Co-Ral (Coumaphos)	µg/L	0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5
Dichlorvos	µg/L	0.5	<0.5
Demeton-S-methyl	µg/L	0.5	<0.5
Dimethoate	µg/L	0.5	<0.5
Disulfoton (Di-syston)	µg/L	0.5	<0.5
EPN*	µg/L	0.5	<0.5

Full 8270 SVOC in Water [AN420] Tested: 21/9/2025 (continued)

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Ethion	µg/L	0.2	<0.2
Ethoprophos (ethoprop or prophos)	µg/L	0.5	<0.5
Famphur (Famophos)	µg/L	0.5	<0.5
Fenamiphos (Phenamiphos)	µg/L	0.5	<0.5
Fenchlorophos (Ronnel)	µg/L	0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2
Fenthion	µg/L	0.5	<0.5
Malathion (Maldison)	µg/L	0.2	<0.2
Methidathion	µg/L	0.5	<0.5
Mevinphos-cis/trans	µg/L	1	<1
o,o,o-triethyl phosphorothioate	µg/L	0.5	<0.5
Parathion ethyl (Parathion)	µg/L	0.2	<0.2
Parathion methyl	µg/L	0.5	<0.5
Phorate	µg/L	0.5	<0.5
Pirimiphos-ethyl	µg/L	0.5	<0.5
Pirimiphos-methyl	µg/L	0.5	<0.5
Profenofos	µg/L	0.5	<0.5
Prothiophos (Tokuthion)*	µg/L	0.5	<0.5
Sulfotepp	µg/L	0.5	<0.5
Tetrachlorvinphos (Stirophos)*	µg/L	0.5	<0.5
PCB Congener C28	µg/L	0.1	<0.1
PCB Congener C52	µg/L	0.1	<0.1
PCB Congener C101	µg/L	0.1	<0.1
PCB Congener C118	µg/L	0.1	<0.1
PCB Congener C138	µg/L	0.1	<0.1
PCB Congener C153	µg/L	0.1	<0.1
PCB Congener C180	µg/L	0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
1,2-dichlorobenzene	µg/L	0.5	<0.5
1,3-dichlorobenzene	µg/L	0.5	<0.5
1,4-dichlorobenzene	µg/L	0.5	<0.5
Hexachlorobutadiene	µg/L	0.5	<0.5
Hexachlorocyclopentadiene	µg/L	2	<2
Hexachloroethane	µg/L	0.5	<0.5
Hexachloroproprene	µg/L	0.5	<0.5
Pentachlorobenzene	µg/L	0.5	<0.5
Pentachloroethane	µg/L	0.5	<0.5
1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	µg/L	1	<1
1,2,3,4-tetrachlorobenzene	µg/L	0.5	<0.5
1/2-Chloronaphthalene	µg/L	1	<1
1,2,4-trichlorobenzene	µg/L	0.5	<0.5
Bis(2-ethylhexyl)phthalate	µg/L	10	<10
Bis(2-ethylhexyl)adipate	µg/L	1	<1
Butyl benzyl phthalate	µg/L	1	<1
Di-n-butyl phthalate	µg/L	10	<10
Diethyl phthalate	µg/L	5	<5
Dimethyl phthalate	µg/L	1	<1
Di-n-octyl phthalate	µg/L	1	<1
Carbofuran	µg/L	0.5	<0.5
Carbaryl	µg/L	0.5	<0.5
Trifluralin	µg/L	0.5	<0.5
N-nitroso-di-n-butylamine (NDBA)	µg/L	1	<1
N-nitroso-diethylamine (NDEA)	µg/L	1	<1
N-nitroso-di-n-propylamine (NDPA)	µg/L	1	<1
N-nitroso-morpholine (NMOR)	µg/L	1	<1
N-nitroso-piperidine (NPIP)	µg/L	1	<1

Full 8270 SVOC in Water [AN420] Tested: 21/9/2025 (continued)

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
N-nitroso-pyrrolidine (NPYR)	µg/L	1	<1
4-amino biphenyl	µg/L	1	<1
Acetophenone	µg/L	1	<1
1,3-dinitrobenzene	µg/L	1	<1
2,4-dinitrotoluene	µg/L	1	<1
2,6-dinitrotoluene	µg/L	1	<1
Isophorone	µg/L	1	<1
Nitrobenzene	µg/L	1	<1
p-(dimethylamino) azobenzene	µg/L	1	<1
Phenacetin	µg/L	1	<1
Pentachloronitrobenzene (quintozene)	µg/L	1	<1
Aniline	µg/L	5	<5
4-chloroaniline	µg/L	1	<1
2-nitroaniline	µg/L	1	<1
3-nitroaniline	µg/L	1	<1
4-nitroaniline	µg/L	1	<1
Diphenylamine	µg/L	1	<1
o-toluidine	µg/L	1	<1
5-nitro-o-toluidine	µg/L	1	<1
1-naphthylamine	µg/L	2	<2
2-naphthylamine	µg/L	2	<2
Bis(2-chloroethoxy) methane	µg/L	1	<1
Bis(2-chloroethyl) ether	µg/L	1	<1
Bis(2-chloroisopropyl) ether	µg/L	1	<1
4-chlorophenyl phenyl ether	µg/L	1	<1
4-bromophenyl phenyl ether	µg/L	1	<1
Methyl methanesulfonate	µg/L	1	<1
Ethyl methanesulfonate	µg/L	1	<1
Dibenzofuran	µg/L	1	<1
Benzyl alcohol	µg/L	1	<1
Safrole	µg/L	1	<1
Isosafrole Isomer 1	µg/L	1	<1
Isosafrole Isomer 2	µg/L	1	<1
1,4-naphthoquinone	µg/L	1	<1
Thionazin	µg/L	1	<1
3/4-methyl phenol (m/p-cresol)	µg/L	1	<1
2-methyl phenol (o-cresol)	µg/L	0.5	<0.5
2,6-dichlorophenol	µg/L	0.5	<0.5
2,3,4,6-tetrachlorophenol	µg/L	0.5	<0.5
2,4,5-trichlorophenol	µg/L	0.5	<0.5
4-chloro-3-methylphenol	µg/L	2	<2
2-chlorophenol	µg/L	0.5	<0.5
2,4-dichlorophenol	µg/L	0.5	<0.5
2,4-dimethylphenol	µg/L	0.5	<0.5
2-nitrophenol	µg/L	0.5	<0.5
Phenol	µg/L	0.5	<0.5
2,4,6-trichlorophenol	µg/L	0.5	<0.5
Pentachlorophenol	µg/L	0.5	<0.5
4-nitrophenol	µg/L	1	<1
Total Endosulfan (alpha+beta+sulfate)	µg/L	0.2	<0.2

pH in water [AN101] Tested: 19/9/2025

PARAMETER	UOM	LOR	GW_BH101M_1 WATER - 18/9/2025 SE289786.001	GW_BH102M_1 WATER - 18/9/2025 SE289786.002	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
pH**	No unit	-	**5.4**	**5.4**	**7.5**

Conductivity and TDS by Calculation - Water [AN106] Tested: 19/9/2025

PARAMETER	UOM	LOR	GW_BH101M_1 WATER - 18/9/2025 SE289786.001	GW_BH102M_1 WATER - 18/9/2025 SE289786.002	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Conductivity @ 25 C	µS/cm	2	**650**	**860**	**420**

Turbidity [AN119] Tested: 19/9/2025

PARAMETER	UOM	LOR	GW_BH101M_1 WATER - 18/9/2025 SE289786.001	GW_BH102M_1 WATER - 18/9/2025 SE289786.002	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Turbidity	NTU	0.5	150	110	240

Total Dissolved Solids (TDS) in water [AN113] Tested: 23/9/2025

PARAMETER	UOM	LOR	GW_BH101M_1 WATER - 18/9/2025 SE289786.001	GW_BH102M_1 WATER - 18/9/2025 SE289786.002	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Total Dissolved Solids Dried at 175-185°C	mg/L	10	**380**	**510**	**220**

Total Phenolics in Water [AN295] Tested: 23/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Total Phenols	mg/L	0.05	<0.05

Anions by Ion Chromatography in Water [AN245] Tested: 22/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Chloride	mg/L	0.05	**66**
Bromide	mg/L	0.05	**0.21**
Fluoride	mg/L	0.1	**0.38**
Sulfate, SO4	mg/L	1	**24**
Nitrate Nitrogen, NO3-N	mg/L	0.005	<0.005

Alkalinity [AN135] Tested: 22/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Bicarbonate Alkalinity as CaCO3	mg/L	5	**93**
Bicarbonate Alkalinity as HCO3	mg/L	5	**110**
Carbonate Alkalinity as CaCO3	mg/L	5	<5
Carbonate Alkalinity as CO3	mg/L	5	<5
Hydroxide Alkalinity as CaCO3	mg/L	5	<5
Hydroxide Alkalinity as OH	mg/L	5	<5
Total Alkalinity as CaCO3	mg/L	5	**93**
Carbonate Hardness as CaCO3*	mg CaCO3/L	2	**93.059166666666**
Non-Carbonate Hardness as CaCO3*	mg CaCO3/L	2	-
Negative Hardness as CaCO3*	mg CaCO3/L	-100	-

Dissolved Oxygen by Membrane Electrode [AN176] Tested: 19/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Temperature*	°C	-	**14.2**
Dissolved Oxygen**	mg/L	0.5	**6.7**
Dissolved Oxygen (percent saturation)**	%	1	**64.7**

Total and Volatile Suspended Solids (TSS / VSS) [AN114] Tested: 22/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Total Suspended Solids Dried at 103-105°C	mg/L	5	**270**

Forms of Carbon [AN190] Tested: 22/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Total Organic Carbon as NPOC	mg/L	0.2	**5.9**

Ammonia Nitrogen by Discrete Analyser [AN291] Tested: 19/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Ammonia Nitrogen, NH_3 as N	mg/L	0.01	<0.01

Calculation of Anion-Cation Balance (SAR Calc) [AN121] Tested: 26/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Sum of Ions*	mg/L	10	**278**
Anion-Cation Balance	%	-100	**0.01**
TFSS*	mg/L	10	**278**
Sodium Adsorption Ratio*	No unit	0.1	**2.6**

Nitrite in Water [AN277] Tested: 19/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Nitrite Nitrogen, NO2 as N	mg/L	0.005	<0.005
Total Oxidised Nitrogen, NOx-N	mg/L	0.005	<0.005

TKN Kjeldahl Digestion by Discrete Analyser [AN281/292] Tested: 23/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Total Kjeldahl Nitrogen	mg/L	0.05	**0.95**
Total Nitrogen (calc)	mg/L	0.05	**0.95**

Total Phosphorus by Kjeldahl Digestion DA in Water [AN279/AN293] Tested: 23/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	**0.58**

Filterable Reactive Phosphorus (FRP) [AN278] Tested: 19/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Filterable Reactive Phosphorus as P	mg/L	0.005	**0.13**

Redox Potential (Eh) in water [AN240] Tested: 19/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Eh of Sample Relative to Standard H+ Electrode***	mV	-500	**388**
Temperature of Sample*	°C	0.1	**18.5**

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples [AN404] Tested: 22/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01
Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01
Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01
Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2	µg/L	0.01	<0.01
Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	<0.01
N-Methylperfluoroctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01
N-Ethylperfluoroctane sulfonamide (N-EtFOSA)	µg/L	0.01	<0.01
N-Methylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05
N-Ethylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05
2-(N-Methylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05
Sum of PFOS and PFHxS	µg/L	0.01	<0.01
Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	<0.01
Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	<0.01
Sum of PFAS A	µg/L	0.01	<0.01
Sum of PFAS B	µg/L	0.01	<0.01
Sum of PFAS C	µg/L	0.01	<0.01
Sum of Positive PFAS	µg/L	0.01	<0.01

Enterococci in Water [AN705] Tested: 22/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Date & Time Processed*	No unit	-	2025-09-22 10:05
Intestinal Enterococci*	CFU/100mL	1	**9**
Notes*	No unit	-	approximate count

E. coli and Thermotolerant coliforms in Water (CFU) [AN703] Tested: 22/9/2025

PARAMETER	UOM	LOR	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Date & Time Processed*	No unit	-	2025-09-22 10:05
E. coli	CFU/100mL	1	<1
Thermotolerant Coliforms	CFU/100mL	1	<1

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 24/9/2025

PARAMETER	UOM	LOR	GW_BH101M_1 WATER - 18/9/2025 SE289786.001	GW_BH102M_1 WATER - 18/9/2025 SE289786.002	GW_BH103M_1 WATER - 18/9/2025 SE289786.003	GW_BH100_QD1 WATER - 18/9/2025 SE289786.004	GW_BH100_QR1 WATER - 18/9/2025 SE289786.005
Arsenic	µg/L	1	<1	<1	<1	<1	<1
Cadmium	µg/L	0.1	<0.1	**0.1**	<0.1	<0.1	<0.1
Chromium	µg/L	1	<1	<1	<1	<1	<1
Copper	µg/L	1	**1**	**11**	**1**	<1	<1
Lead	µg/L	1	<1	<1	<1	<1	<1
Nickel	µg/L	1	**2**	**11**	<1	<1	<1
Zinc	µg/L	5	**5**	**78**	<5	**5**	<5
Silver	µg/L	1	-	-	<1	-	-
Aluminium	µg/L	5	**74**	**55**	**27**	-	-
Antimony	µg/L	1	-	-	<1	-	-
Barium	µg/L	1	-	-	**110**	-	-
Beryllium	µg/L	1	-	-	<1	-	-
Boron	µg/L	5	-	-	**490**	-	-
Cobalt	µg/L	1	-	-	<1	-	-
Iron	µg/L	5	-	-	**9**	-	-
Manganese	µg/L	1	-	-	**190**	-	-
Molybdenum	µg/L	1	-	-	**6**	-	-
Selenium	µg/L	1	-	-	<1	-	-
Strontium	µg/L	1	-	-	**110**	-	-
Uranium	µg/L	1	-	-	<1	-	-
Vanadium	µg/L	1	-	-	<1	-	-

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 26/9/2025

PARAMETER	UOM	LOR	GW_BH101M_1 WATER - 18/9/2025 SE289786.001	GW_BH102M_1 WATER - 18/9/2025 SE289786.002	GW_BH103M_1 WATER - 18/9/2025 SE289786.003	GW_BH100_QD1 WATER - 18/9/2025 SE289786.004	GW_BH100_QR1 WATER - 18/9/2025 SE289786.005
Mercury, Hg	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Metals in Water (Dissolved) by ICPOES [AN320] Tested: 24/9/2025

PARAMETER	UOM	LOR	GW_BH101M_1 WATER - 18/9/2025 SE289786.001	GW_BH102M_1 WATER - 18/9/2025 SE289786.002	GW_BH103M_1 WATER - 18/9/2025 SE289786.003
Total Hardness by Calculation	mg CaCO3/L	5	**89**	**130**	**75**
Sodium Adsorption Ratio	No unit	0.2	-	-	**2.6**
Sodium, Na	mg/L	0.5	-	-	**51**
Potassium, K	mg/L	0.1	-	-	**20**
Lithium, Li	mg/L	0.005	-	-	**0.015**
Silicon, Si*	mg/L	0.05	-	-	**4.5**
Soluble Silicon as Silica, SiO2*	mg/L	0.1	-	-	**9.7**

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode (glass plus reference electrode) and is calibrated against 3 buffers purchased commercially. For soils, an extract with water is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN106	Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as µmhos /cm or µS/cm @ 25°C. For soils, an extract with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Total Dissolved Salts can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. SGS use 0.6. Reference APHA 2510 B.
AN106	Salinity may be calculated in terms of NaCl from the sample conductivity. This assumes all soluble salts present , measured by the conductivity, are present as NaCl.
AN113	Total Dissolved Solids: A well-mixed filtered sample of known volume is evaporated to dryness at 180°C and the residue weighed. Approximate methods for correlating chemical analysis with dissolved solids are available . Reference APHA 2540 C.
AN113	The Total Dissolved Solids residue may also be ignited at 550 C and volatile TDS (Organic TDS) and non-volatile TDS (Inorganic) can be determined.
AN114	Total Suspended and Volatile Suspended Solids: The sample is homogenised by shaking and a known volume is filtered through a pre-weighed GF/C filter paper and washed well with deionised water. The filter paper is dried and reweighed. The TSS is the residue retained by the filter per unit volume of sample. Reference APHA 2540 D. Internal Reference AN114
AN119	Turbidity by Nepholometry: Small particles in a light beam scatter light at a range of angles. A turbidimeter measures this scatter and reports results compared to turbidity standards, in NTU. This procedure is not suitable for very dark coloured liquids or samples with high solids because light absorption causes artificially low light scatter and low turbidity. Reference APHA 2130B.
AN121	This method is used to calculation the balance of major Anions and Cations in water samples and converts major ion concentration to milliequivalents and then summed. Anions sum and Cation sum is calculated as a difference and expressed as a percentage.
AN135	Alkalinity (and forms of) by Titration: The sample is titrated with standard acid to pH 8.3 (P titre) and pH 4.5 (T titre) and permanent and/or total alkalinity calculated. The results are expressed as equivalents of calcium carbonate or recalculated as bicarbonate, carbonate and hydroxide. Reference APHA 2320. Internal Reference AN135
AN176	Dissolved Oxygen: DO can also be measured directly using an oxygen permeable membrane electrode and meter. Under steady state conditions the current is directly proportional to the DO conc. DO can also be measured via Luminescent dissolved oxygen probes (LDO) which also operates using an oxygen permeable membrane with an oxygen sensitive luminescent dye making up the second probe layer. The presence of oxygen causes changes in the lifetime and intensity of luminescence, which are then quantified. Zero headspace is required for sample analysis, if headspace is observed report comment will be recorded . Reference APHA 4500-C, G & O.
AN190	TOC and DOC in Water: A homogenised micro portion of sample is injected into a heated reaction chamber packed with an oxidative catalyst that converts organic carbon to carbon dioxide. The CO2 is measured using a non-dispersive infrared detector. The process is fully automated in a commercially available analyser. If required a sugar value can be calculated from the TOC result . Reference APHA 5310 B.
AN190	Chemical oxygen demand can be calculated/estimated based on the O2/C relation as 2.67*NPOC (TOC). This is an estimate only and the factor will vary with sample matrix so results should be interpreted with caution.
AN240	Oxidation-Reduction Potential (Eh): Electrometric measurements are made by potentiometric determination of electron activity (or intensity) with an inert indicator electrode and a suitable reference electrode. At redox equilibrium, the potential difference between the two electrodes equals the redox potential of the system. This measurement is then corrected for the difference between the potential of the reference electrode and that of the standard hydrogen electrode.

AN245	Anions by Ion Chromatography: A water sample is injected into an eluent stream that passes through the ion chromatographic system where the anions of interest ie Br, Cl, NO2, NO3 and SO4 are separated on their relative affinities for the active sites on the column packing material. Changes to the conductivity and the UV-visible absorbance of the eluent enable identification and quantitation of the anions based on their retention time and peak height or area. APHA 4110 B
AN277	Nitrite ions, when reacted with a reagent containing sulphanilamide and N-(1-naphthyl)-ethylenediamine dihydrochloride produce a highly coloured azo dye that is measured photometrically at 540nm.
AN278	Filterable Reactive Phosphorus by DA (determined on filtered sample): Orthophosphate reacts with ammonium molybdate (Mo VI) and potassium antimonyl tartrate (Sb III) in acid medium to form an antimony-phosphomolybdate complex. This complex is subsequently reduced with ascorbic acid to form a blue colour and the absorbance is read at 880 nm. The sensitivity of the automated method is 10-20 times that of the macro method. Reference APHA 4500-P F
AN279/AN293(Sydney)	The sample is digested with Sulphuric acid, K2SO4 and CuSO4. All forms of phosphorus are converted into orthophosphate. The digest is cooled and placed on the discrete analyser for colorimetric analysis.
AN281	An unfiltered water or soil sample is first digested in a block digestor with sulfuric acid, K2SO4 and CuSO4. The ammonia produced following digestion is then measured colourimetrically using the Discrete Analyser. A portion of the digested sample is buffered to an alkaline pH, and interfering cations are complexed. The ammonia then reacts with salicylate and hypochlorite to give a blue colour whose absorbance is measured at 660nm and compared with calibration standards. This is proportional to the concentration of Total Kjeldahl Nitrogen in the original sample.
AN291	Ammonia in solution reacts with hypochlorite ions from Sodium Dichloroisocyanuate, and salicylate in the presence of Sodium Nitroprusside to form indophenol blue and measured at 660 nm by Discrete Analyser.
AN295	The water sample or extract of sample is distilled in a phosphoric acid stream. Phenolic compounds in the distillate react with a reagent stream of potassium hexacyanoferrate(III) and 4-Amino-2,3-dimethyl-3-pryazolin-5-one in an alkaline medium to form a coloured complex which is analysed spectrophotometrically onboard a continuous flow analyser.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN320	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components .
AN320	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements . Reference APHA 3120 B.
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used.
AN403	Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoveerable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken . This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.

AN404	This method covers the analysis of per- and polyfluoroalkyl substances (PFAS) in aqueous, solid and biosolid samples and solvent extracts. After spiking with isotopically labelled quantification surrogates and sample extracts are analysed by liquid chromatography/mass spectrometry (LC-MS/MS). PFAS concentrations are determined by isotope dilution quantification. PFOS and PFHXS are determined as the total of linear and branched isomers.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting .
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN703	A known volume of water is passed through a membrane of known pore size. The membrane is placed on a selective agar plate and incubated. The volume of sample filtered depends upon the expected count. Referenced to AS4276.5.
AN705	A known volume of water is passed through a membrane of known pore size. The membrane is placed on a selective agar plate and incubated. The volume of sample filtered depends upon the expected count. Referenced to AS/NZS4276.9 (ISO 7899-2:2000 MOD).
Calculation	Free and Total Carbon Dioxide may be calculated using alkalinity forms only when the samples TDS is <500mg/L. If TDS is >500mg/L free or total carbon dioxide cannot be reported . APHA4500CO2 D.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR			
***	Indicates that both * and ** apply.		Sample listed, but not received.		
NAD	No Asbestos Detected.	NA	Not Applicable.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE289786 R0

CLIENT DETAILS

Contact	Geisiane Torres
Client	EI AUSTRALIA
Address	SUITE 6.01 55 MILLER STREET PYRMONT NSW 2009
Telephone	61 2 95160722
Facsimile	(Not specified)
Email	Geisiane.Torres @eiaustralia.com.au
Project	**E26534 61 Marlborough St, Surry Hills**
Order Number	**E26534**
Samples	7

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE289786 R0**
Date Received	19 Sep 2025
Date Reported	29 Sep 2025

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	E. coli and Thermotolerant coliforms in Water (CFU)	1 item
	Enterococci in Water	1 item
Duplicate	VOCs in Water	1 item
	Volatile Petroleum Hydrocarbons in Water	1 item

SAMPLE SUMMARY

Sample counts by matrix	7 Water	Type of documentation received	COC
Date documentation received	19/9/2025	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	14.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE289786 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Alkalinity

Method: ME-(AU)-[ENV]AN135

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361885	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	22 Sep 2025

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361752	18 Sep 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361815	18 Sep 2025	19 Sep 2025	16 Oct 2025	22 Sep 2025	16 Oct 2025	25 Sep 2025

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361753	18 Sep 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025
GW_BH102M_1	SE289786.002	LB361753	18 Sep 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025
GW_BH103M_1	SE289786.003	LB361753	18 Sep 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025

Dissolved Oxygen by Membrane Electrode

Method: ME-(AU)-[ENV]AN176

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361754	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025

E. coli and Thermotolerant coliforms in Water (CFU)

Method: ME-(AU)-[ENV]AN703

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361838	18 Sep 2025	19 Sep 2025	19 Sep 2025	22 Sep 2025†	25 Sep 2025	22 Sep 2025

Enterococci in Water

Method: ME-(AU)-[ENV]AN705

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361838	18 Sep 2025	19 Sep 2025	19 Sep 2025	22 Sep 2025†	25 Sep 2025	22 Sep 2025

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361752	18 Sep 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361817	18 Sep 2025	19 Sep 2025	25 Sep 2025	22 Sep 2025	25 Sep 2025	23 Sep 2025

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH102M_1	SE289786.002	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH103M_1	SE289786.003	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QD1	SE289786.004	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QR1	SE289786.005	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361802	18 Sep 2025	19 Sep 2025	16 Oct 2025	26 Sep 2025	16 Oct 2025	26 Sep 2025
GW_BH102M_1	SE289786.002	LB361802	18 Sep 2025	19 Sep 2025	16 Oct 2025	26 Sep 2025	16 Oct 2025	26 Sep 2025
GW_BH103M_1	SE289786.003	LB361802	18 Sep 2025	19 Sep 2025	16 Oct 2025	26 Sep 2025	16 Oct 2025	26 Sep 2025
GW_BH100_QD1	SE289786.004	LB361802	18 Sep 2025	19 Sep 2025	16 Oct 2025	26 Sep 2025	16 Oct 2025	26 Sep 2025
GW_BH100_QR1	SE289786.005	LB361802	18 Sep 2025	19 Sep 2025	16 Oct 2025	26 Sep 2025	16 Oct 2025	26 Sep 2025

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB362206	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	24 Sep 2025
GW_BH102M_1	SE289786.002	LB362206	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	24 Sep 2025
GW_BH103M_1	SE289786.003	LB362206	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	24 Sep 2025

HOLDING TIME SUMMARY

SE289786 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361752	18 Sep 2025	19 Sep 2025	22 Sep 2025	19 Sep 2025	22 Sep 2025	19 Sep 2025

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH102M_1	SE289786.002	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH103M_1	SE289786.003	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QD1	SE289786.004	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QR1	SE289786.005	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH102M_1	SE289786.002	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH103M_1	SE289786.003	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH100_QD1	SE289786.004	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH100_QR1	SE289786.005	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH102M_1	SE289786.002	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH103M_1	SE289786.003	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH100_QD1	SE289786.004	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH100_QR1	SE289786.005	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH102M_1	SE289786.002	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH103M_1	SE289786.003	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QD1	SE289786.004	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QR1	SE289786.005	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361842	18 Sep 2025	19 Sep 2025	16 Oct 2025	22 Sep 2025	20 Oct 2025	23 Sep 2025

pH in water

Method: ME-(AU)-[ENV]AN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361753	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025
GW_BH102M_1	SE289786.002	LB361753	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025
GW_BH103M_1	SE289786.003	LB361753	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025

Redox Potential (Eh) in water

Method: ME-(AU)-[ENV]AN240

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361755	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025

TKN Kjeldahl Digestion by Discrete Analyser

Method: ME-(AU)-[ENV]AN281/292

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB362010	18 Sep 2025	19 Sep 2025	16 Oct 2025	23 Sep 2025	16 Oct 2025	25 Sep 2025

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361877	18 Sep 2025	19 Sep 2025	25 Sep 2025	22 Sep 2025	29 Sep 2025	22 Sep 2025

Total Dissolved Solids (TDS) in water

Method: ME-(AU)-[ENV]AN113

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB362093	18 Sep 2025	19 Sep 2025	25 Sep 2025	23 Sep 2025	25 Sep 2025	24 Sep 2025
GW_BH102M_1	SE289786.002	LB362093	18 Sep 2025	19 Sep 2025	25 Sep 2025	23 Sep 2025	25 Sep 2025	24 Sep 2025

HOLDING TIME SUMMARY

SE289786 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Total Dissolved Solids (TDS) in water (continued)

Method: ME-(AU)-[ENV]AN113

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB362093	18 Sep 2025	19 Sep 2025	25 Sep 2025	23 Sep 2025	25 Sep 2025	24 Sep 2025

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB362035	18 Sep 2025	19 Sep 2025	02 Oct 2025	23 Sep 2025	02 Oct 2025	24 Sep 2025

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB362010	18 Sep 2025	19 Sep 2025	16 Oct 2025	23 Sep 2025	16 Oct 2025	24 Sep 2025

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB362209	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	25 Sep 2025
GW_BH102M_1	SE289786.002	LB362209	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	25 Sep 2025
GW_BH103M_1	SE289786.003	LB362209	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	25 Sep 2025
GW_BH100_QD1	SE289786.004	LB362209	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	25 Sep 2025
GW_BH100_QR1	SE289786.005	LB362209	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	25 Sep 2025

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH102M_1	SE289786.002	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH103M_1	SE289786.003	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QD1	SE289786.004	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QR1	SE289786.005	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025

Turbidity

Method: ME-(AU)-[ENV]AN119

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361734	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025
GW_BH102M_1	SE289786.002	LB361734	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025
GW_BH103M_1	SE289786.003	LB361734	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH102M_1	SE289786.002	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH103M_1	SE289786.003	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH100_QD1	SE289786.004	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH100_QR1	SE289786.005	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
Trip Blank	SE289786.006	LB361916	19 Sep 2025	19 Sep 2025	03 Oct 2025	22 Sep 2025	03 Oct 2025	24 Sep 2025
Trip Spike	SE289786.007	LB361916	19 Sep 2025	19 Sep 2025	03 Oct 2025	22 Sep 2025	03 Oct 2025	24 Sep 2025

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH102M_1	SE289786.002	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH103M_1	SE289786.003	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	25 Sep 2025
GW_BH100_QD1	SE289786.004	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH100_QR1	SE289786.005	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
Trip Blank	SE289786.006	LB361916	19 Sep 2025	19 Sep 2025	03 Oct 2025	22 Sep 2025	03 Oct 2025	25 Sep 2025
Trip Spike	SE289786.007	LB361916	19 Sep 2025	19 Sep 2025	03 Oct 2025	22 Sep 2025	03 Oct 2025	25 Sep 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	104
2-fluorobiphenyl (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	92
d14-p-terphenyl (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	114
d5-nitrobenzene (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	82
d5-phenol (Surrogate)	GW_BH103M_1	SE289786.003	%	20 - 130%	85

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	72

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	91
d14-p-terphenyl (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	110

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	98
	GW_BH102M_1	SE289786.002	%	40 - 130%	103
	GW_BH103M_1	SE289786.003	%	40 - 130%	91
d14-p-terphenyl (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	104
	GW_BH102M_1	SE289786.002	%	40 - 130%	109
	GW_BH103M_1	SE289786.003	%	40 - 130%	110
d5-nitrobenzene (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	100
	GW_BH102M_1	SE289786.002	%	40 - 130%	117
	GW_BH103M_1	SE289786.003	%	40 - 130%	94

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	72

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	94
	GW_BH102M_1	SE289786.002	%	40 - 130%	93
	GW_BH103M_1	SE289786.003	%	40 - 130%	93
	GW_BH100_QD1	SE289786.004	%	40 - 130%	93
	GW_BH100_QR1	SE289786.005	%	40 - 130%	93
	Trip Blank	SE289786.006	%	40 - 130%	92
	Trip Spike	SE289786.007	%	40 - 130%	85
d4-1,2-dichloroethane (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	74
	GW_BH102M_1	SE289786.002	%	40 - 130%	76
	GW_BH103M_1	SE289786.003	%	40 - 130%	75
	GW_BH100_QD1	SE289786.004	%	40 - 130%	76
	GW_BH100_QR1	SE289786.005	%	40 - 130%	74
	Trip Blank	SE289786.006	%	40 - 130%	79
	Trip Spike	SE289786.007	%	40 - 130%	83
d8-toluene (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	83
	GW_BH102M_1	SE289786.002	%	40 - 130%	84
	GW_BH103M_1	SE289786.003	%	40 - 130%	83
	GW_BH100_QD1	SE289786.004	%	40 - 130%	83
	GW_BH100_QR1	SE289786.005	%	40 - 130%	82
	Trip Blank	SE289786.006	%	40 - 130%	82
	Trip Spike	SE289786.007	%	40 - 130%	93

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	94
	GW_BH102M_1	SE289786.002	%	40 - 130%	93
	GW_BH103M_1	SE289786.003	%	40 - 130%	93
	GW_BH100_QD1	SE289786.004	%	40 - 130%	93

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Water (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	GW_BH100_QR1	SE289786.005	%	40 - 130%	93
d4-1,2-dichloroethane (Surrogate)	GW_BH101M_1	SE289786.001	%	60 - 130%	74
	GW_BH102M_1	SE289786.002	%	60 - 130%	76
	GW_BH103M_1	SE289786.003	%	60 - 130%	75
	GW_BH100_QD1	SE289786.004	%	60 - 130%	76
	GW_BH100_QR1	SE289786.005	%	60 - 130%	74
d8-toluene (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	83
	GW_BH102M_1	SE289786.002	%	40 - 130%	84
	GW_BH103M_1	SE289786.003	%	40 - 130%	83
	GW_BH100_QD1	SE289786.004	%	40 - 130%	83
	GW_BH100_QR1	SE289786.005	%	40 - 130%	82

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Alkalinity

Method: ME-(AU)-[ENV]AN135

Sample Number	Parameter	Units	LOR	Result
LB361885.001	Bicarbonate Alkalinity as CaCO3	mg/L	5	<5
	Carbonate Alkalinity as CaCO3	mg/L	5	<5
	Total Alkalinity as CaCO3	mg/L	5	<5

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Sample Number	Parameter	Units	LOR	Result
LB361752.001	Ammonia Nitrogen, NH_3 as N	mg/L	0.01	<0.01

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result
LB361815.001	Fluoride	mg/L	0.1	<0.10
	Chloride	mg/L	0.05	<0.05
	Bromide	mg/L	0.05	<0.05
	Nitrate Nitrogen, NO3-N	mg/L	0.005	<0.005
	Sulfate, SO4	mg/L	1	<1.0

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Number	Parameter	Units	LOR	Result
LB361753.001	Conductivity @ 25 C	µS/cm	2	<2

Dissolved Oxygen by Membrane Electrode

Method: ME-(AU)-[ENV]AN176

Sample Number	Parameter	Units	LOR	Result
LB361754.001	Dissolved Oxygen**	mg/L	0.5	<0.5

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Number	Parameter	Units	LOR	Result
LB361752.001	Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Number	Parameter	Units	LOR	Result
LB361817.001	Total Organic Carbon as NPOC	mg/L	0.2	<0.2

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB361771.001	01-PAHs	Acenaphthene	µg/L	0.1	<0.1
		Acenaphthylene	µg/L	0.1	<0.1
		Anthracene	µg/L	0.1	<0.1
		Benzo(a)anthracene	µg/L	0.1	<0.1
		Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2
		Benzo(a)pyrene	µg/L	0.1	<0.1
		Chrysene	µg/L	0.1	<0.1
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1
		Fluoranthene	µg/L	0.1	<0.1
		Fluorene	µg/L	0.1	<0.1
		1-methylnaphthalene	µg/L	0.1	<0.1
		2-methylnaphthalene	µg/L	0.1	<0.1
		Naphthalene	µg/L	0.1	<0.1
		Phenanthrene	µg/L	0.1	<0.1
		Pyrene	µg/L	0.1	<0.1
		2-acetylaminofluorene	µg/L	0.5	<0.5
		7,12-dimethyl-benz(a)anthracene	µg/L	0.5	<0.5
		3-methylcholanthrene	µg/L	0.5	<0.5
	02-OCs	Aldrin	µg/L	0.1	<0.1
		Alpha-BHC	µg/L	0.1	<0.1

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Full 8270 SVOC in Water (continued) — **Method: ME-(AU)-[ENV]AN420**

Sample Number		Parameter	Units	LOR	Result
LB361771.001	02-OCs	Beta-BHC	µg/L	0.1	<0.1
		Delta-BHC	µg/L	0.1	<0.1
		Gamma-BHC (Lindane)	µg/L	0.1	<0.1
		p,p-DDD	µg/L	0.1	<0.1
		p,p-DDE	µg/L	0.1	<0.1
		p,p-DDT	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Alpha-endosulfan	µg/L	0.1	<0.1
		Beta-endosulfan	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
		Alpha-chlordane	µg/L	0.1	<0.1
		Gamma-chlordane	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
	03-OPs	Azinphos-methyl (Guthion)	µg/L	0.2	<0.2
		Bromophos ethyl	µg/L	0.2	<0.2
		Carbophenothion	µg/L	0.5	<0.5
		Chlorfenvinphos-cis	µg/L	5	<5
		Chlorfenvinphos-trans	µg/L	0.5	<0.5
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Chlorpyrifos-methyl	µg/L	0.5	<0.5
		Co-Ral (Coumaphos)	µg/L	0.5	<0.5
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Dichlorvos	µg/L	0.5	<0.5
		Demeton-S-methyl	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Disulfoton (Di-syston)	µg/L	0.5	<0.5
		EPN*	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Ethoprophos (ethoprop or prophos)	µg/L	0.5	<0.5
		Famphur (Famophos)	µg/L	0.5	<0.5
		Fenamiphos (Phenamiphos)	µg/L	0.5	<0.5
		Fenchlorophos (Ronnel)	µg/L	0.5	<0.5
		Fenitrothion	µg/L	0.2	<0.2
		Fenthion	µg/L	0.5	<0.5
		Malathion (Maldison)	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5
		Mevinphos-cis/trans	µg/L	1	<1
		o,o,o-triethyl phosphorothioate	µg/L	0.5	<0.5
		Parathion ethyl (Parathion)	µg/L	0.2	<0.2
		Parathion methyl	µg/L	0.5	<0.5
		Phorate	µg/L	0.5	<0.5
		Pirimiphos-ethyl	µg/L	0.5	<0.5
		Pirimiphos-methyl	µg/L	0.5	<0.5
		Profenofos	µg/L	0.5	<0.5
		Prothiophos (Tokuthion)*	µg/L	0.5	<0.5
		Sulfotepp	µg/L	0.5	<0.5
	04-PCB UPAC(7) Congeners	PCB Congener C28	µg/L	0.1	<0.1
		PCB Congener C52	µg/L	0.1	<0.1
		PCB Congener C101	µg/L	0.1	<0.1
		PCB Congener C118	µg/L	0.1	<0.1
		PCB Congener C138	µg/L	0.1	<0.1
		PCB Congener C153	µg/L	0.1	<0.1
		PCB Congener C180	µg/L	0.1	<0.1
	05-SVCH (Cl Benzenes, Hydrocarbons & VOCs)	Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
		1,2-dichlorobenzene	µg/L	0.5	<0.5
		1,3-dichlorobenzene	µg/L	0.5	<0.5

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Full 8270 SVOC in Water (continued) — **Method: ME-(AU)-[ENV]AN420**

Sample Number		Parameter	Units	LOR	Result
LB361771.001	05-SVCH (Cl Benzenes, Hydrocarbons & VOCs)	1,4-dichlorobenzene	µg/L	0.5	<0.5
		Hexachlorobutadiene	µg/L	0.5	<0.5
		Hexachlorocyclopentadiene	µg/L	2	<2
		Hexachloroethane	µg/L	0.5	<0.5
		Hexachloroproprene	µg/L	0.5	<0.5
		Pentachlorobenzene	µg/L	0.5	<0.5
		Pentachloroethane	µg/L	0.5	<0.5
		1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	µg/L	1	<1
		1,2,3,4-tetrachlorobenzene	µg/L	0.5	<0.5
		1/2-Chloronaphthalene	µg/L	1	<1
		1,2,4-trichlorobenzene	µg/L	0.5	<0.5
	06-Phthalates	Bis(2-ethylhexyl)phthalate	µg/L	10	<10
		Bis(2-ethylhexyl)adipate	µg/L	1	<1
		Butyl benzyl phthalate	µg/L	1	<1
		Di-n-butyl phthalate	µg/L	10	<10
		Diethyl phthalate	µg/L	5	<5
		Dimethyl phthalate	µg/L	1	<1
		Di-n-octyl phthalate	µg/L	1	<1
	07-Carbamates	Carbofuran	µg/L	0.5	<0.5
		Carbaryl	µg/L	0.5	<0.5
	08-Herbicides (normal)	Trifluralin	µg/L	0.5	<0.5
	09-Nitrosamines	N-nitroso-di-n-butylamine (NDBA)	µg/L	1	<1
		N-nitroso-diethylamine (NDEA)	µg/L	1	<1
		N-nitroso-di-n-propylamine (NDPA)	µg/L	1	<1
		N-nitroso-morpholine (NMOR)	µg/L	1	<1
		N-nitroso-piperidine (NPIP)	µg/L	1	<1
		N-nitroso-pyrrolidine (NPYR)	µg/L	1	<1
		4-amino biphenyl	µg/L	1	<1
	10-Nitroaromatics and Ketones	Acetophenone	µg/L	1	<1
		1,3-dinitrobenzene	µg/L	1	<1
		2,4-dinitrotoluene	µg/L	1	<1
		2,6-dinitrotoluene	µg/L	1	<1
		Isophorone	µg/L	1	<1
		Nitrobenzene	µg/L	1	<1
		p-(dimethylamino) azobenzene	µg/L	1	<1
		Phenacetin	µg/L	1	<1
		Pentachloronitrobenzene (quintozene)	µg/L	1	<1
	11-Anilines and Amines	Aniline	µg/L	5	<5
		4-chloroaniline	µg/L	1	<1
		2-nitroaniline	µg/L	1	<1
		3-nitroaniline	µg/L	1	<1
		4-nitroaniline	µg/L	1	<1
		Diphenylamine	µg/L	1	<1
		o-toluidine	µg/L	1	<1
		5-nitro-o-toluidine	µg/L	1	<1
		1-naphthylamine	µg/L	2	<2
		2-naphthylamine	µg/L	2	<2
	12-Haloethers	Bis(2-chloroethoxy) methane	µg/L	1	<1
		Bis(2-chloroethyl) ether	µg/L	1	<1
		Bis(2-chloroisopropyl) ether	µg/L	1	<1
		4-chlorophenyl phenyl ether	µg/L	1	<1
		4-bromophenyl phenyl ether	µg/L	1	<1
	13-Other SVOCs	Methyl methanesulfonate	µg/L	1	<1
		Ethyl methanesulfonate	µg/L	1	<1
		Dibenzofuran	µg/L	1	<1
		Benzyl alcohol	µg/L	1	<1
		Safrole	µg/L	1	<1
		Isosafrole Isomer 1	µg/L	1	<1
		Isosafrole Isomer 2	µg/L	1	<1
		1,4-naphthoquinone	µg/L	1	<1
		Thionazin	µg/L	1	<1

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Full 8270 SVOC in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB361771.001	14-Speciated Routine	3/4-methyl phenol (m/p-cresol)	µg/L	1	<1
	Phenols	2-methyl phenol (o-cresol)	µg/L	0.5	<0.5
		2,6-dichlorophenol	µg/L	0.5	<0.5
		2,4,5-trichlorophenol	µg/L	0.5	<0.5
		4-chloro-3-methylphenol	µg/L	2	<2
		2-chlorophenol	µg/L	0.5	<0.5
		2,4-dichlorophenol	µg/L	0.5	<0.5
		2,4-dimethylphenol	µg/L	0.5	<0.5
		2-nitrophenol	µg/L	0.5	<0.5
		Phenol	µg/L	0.5	<0.5
		2,4,6-trichlorophenol	µg/L	0.5	<0.5
		Pentachlorophenol	µg/L	0.5	<0.5
		4-nitrophenol	µg/L	1	<1
	Surrogates	d5-phenol (Surrogate)	%	-	120
		d5-nitrobenzene (Surrogate)	%	-	122
		2-fluorobiphenyl (Surrogate)	%	-	128
		2,4,6-Tribromophenol (Surrogate)	%	-	125
		d14-p-terphenyl (Surrogate)	%	-	128

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB361802.001	Mercury, Hg	mg/L	0.0001	<0.0001

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Number	Parameter	Units	LOR	Result
LB362206.001	Potassium, K	mg/L	0.1	<0.1
	Silicon, Si*	mg/L	0.05	<0.05
	Sodium, Na	mg/L	0.5	<0.5

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Number	Parameter	Units	LOR	Result
LB361752.001	Nitrite Nitrogen, NO2 as N	mg/L	0.005	<0.005

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB361771.001		Alpha BHC	µg/L	0.1	<0.1
		Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
		Beta BHC	µg/L	0.1	<0.1
		Lindane (gamma BHC)	µg/L	0.1	<0.1
		Delta BHC	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Aldrin	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Gamma Chlordane	µg/L	0.1	<0.1
		Alpha Chlordane	µg/L	0.1	<0.1
		Alpha Endosulfan	µg/L	0.1	<0.1
		p,p'-DDE	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Beta Endosulfan	µg/L	0.1	<0.1
		p,p'-DDD	µg/L	0.1	<0.1
		Endrin aldehyde	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		p,p'-DDT	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	104

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OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB361771.001		Azinphos-methyl	µg/L	0.2	<0.2
		Bromophos Ethyl	µg/L	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Dichlorvos	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Fenitrothion	µg/L	0.2	<0.2
		Malathion	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5
		Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	83
		d14-p-terphenyl (Surrogate)	%	-	85

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB361771.001		Naphthalene	µg/L	0.1	<0.1
		2-methylnaphthalene	µg/L	0.1	<0.1
		1-methylnaphthalene	µg/L	0.1	<0.1
		Acenaphthylene	µg/L	0.1	<0.1
		Acenaphthene	µg/L	0.1	<0.1
		Fluorene	µg/L	0.1	<0.1
		Phenanthrene	µg/L	0.1	<0.1
		Anthracene	µg/L	0.1	<0.1
		Fluoranthene	µg/L	0.1	<0.1
		Pyrene	µg/L	0.1	<0.1
		Benzo(a)anthracene	µg/L	0.1	<0.1
		Chrysene	µg/L	0.1	<0.1
		Benzo(a)pyrene	µg/L	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1
		Benzo(ghi)perylene	µg/L	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	97
		2-fluorobiphenyl (Surrogate)	%	-	83
		d14-p-terphenyl (Surrogate)	%	-	85

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB361771.001	Arochlor 1016	µg/L	1	<1
	Arochlor 1221	µg/L	1	<1
	Arochlor 1232	µg/L	1	<1
	Arochlor 1242	µg/L	1	<1
	Arochlor 1248	µg/L	1	<1
	Arochlor 1254	µg/L	1	<1
	Arochlor 1260	µg/L	1	<1

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR	Result
LB361842.001	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01
	Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01
	Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01

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Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples (continued)

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR	Result
LB361842.001	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01
	Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01
	Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01
	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	µg/L	0.01	<0.01
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	<0.01
	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01
	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	µg/L	0.01	<0.01
	N-Methylperfluorooctanesulfonamidoacetic acid (N_MeFOSAA)	µg/L	0.05	<0.05
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	µg/L	0.05	<0.05
	2-(N-Methylperfluorooctane sulfonamido)-ethanol (N-MeFOSE)	µg/L	0.05	<0.05
	2-(N-Ethylperfluorooctane sulfonamido)-ethanol (N-EtFOSE)	µg/L	0.05	<0.05

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Sample Number	Parameter	Units	LOR	Result
LB361877.001	Total Suspended Solids Dried at 103-105°C	mg/L	5	<5

Total Dissolved Solids (TDS) in water

Method: ME-(AU)-[ENV]AN113

Sample Number	Parameter	Units	LOR	Result
LB362093.001	Total Dissolved Solids Dried at 175-185°C	mg/L	10	<10

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result
LB362035.001	Total Phenols	mg/L	0.05	<0.05

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Sample Number	Parameter	Units	LOR	Result
LB362010.001	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	<0.02

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB362209.001	Aluminium	µg/L	5	<5
	Antimony	µg/L	1	<1
	Arsenic	µg/L	1	<1
	Barium	µg/L	1	<1
	Beryllium	µg/L	1	<1
	Boron	µg/L	5	<5
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Cobalt	µg/L	1	<1
	Copper	µg/L	1	<1
	Iron	µg/L	5	<5
	Lead	µg/L	1	<1
	Manganese	µg/L	1	<1
	Molybdenum	µg/L	1	<1
	Nickel	µg/L	1	<1
	Selenium	µg/L	1	<1
	Silver	µg/L	1	<1
	Strontium	µg/L	1	<1
	Uranium	µg/L	1	<1
	Vanadium	µg/L	1	<1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Trace Metals (Dissolved) in Water by ICPMS (continued)

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB362209.001	Zinc	µg/L	5	<5
LB362209.025	Aluminium	µg/L	5	<5
	Antimony	µg/L	1	<1
	Arsenic	µg/L	1	<1
	Barium	µg/L	1	<1
	Beryllium	µg/L	1	<1
	Boron	µg/L	5	<5
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Cobalt	µg/L	1	<1
	Copper	µg/L	1	<1
	Iron	µg/L	5	<5
	Lead	µg/L	1	<1
	Manganese	µg/L	1	<1
	Molybdenum	µg/L	1	<1
	Nickel	µg/L	1	<1
	Selenium	µg/L	1	<1
	Silver	µg/L	1	<1
	Strontium	µg/L	1	<1
	Uranium	µg/L	1	<1
	Vanadium	µg/L	1	<1
	Zinc	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB361771.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

Turbidity

Method: ME-(AU)-[ENV]AN119

Sample Number	Parameter	Units	LOR	Result
LB361734.001	Turbidity	NTU	0.5	<0.5

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB361916.001	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5
		1,2-dichloropropane	µg/L	0.5	<0.5
		cis-1,3-dichloropropene	µg/L	0.5	<0.5
		trans-1,3-dichloropropene	µg/L	0.5	<0.5
		1,2-dibromoethane (EDB)	µg/L	0.5	<0.5
	Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5
		Chloromethane	µg/L	5	<5
		Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3
		Bromomethane	µg/L	10	<10
		Chloroethane	µg/L	5	<5
		Trichlorofluoromethane	µg/L	1	<1
		1,1-dichloroethene	µg/L	0.5	<0.5
		Iodomethane	µg/L	5	<5
		Dichloromethane (Methylene chloride)	µg/L	5	<5
		Allyl chloride	µg/L	2	<2
		trans-1,2-dichloroethene	µg/L	0.5	<0.5
		1,1-dichloroethane	µg/L	0.5	<0.5
		cis-1,2-dichloroethene	µg/L	0.5	<0.5
		Bromochloromethane	µg/L	0.5	<0.5
		1,2-dichloroethane	µg/L	0.5	<0.5
		1,1,1-trichloroethane	µg/L	0.5	<0.5
		1,1-dichloropropene	µg/L	0.5	<0.5
		Carbon tetrachloride	µg/L	0.5	<0.5
		Dibromomethane	µg/L	0.5	<0.5

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB361916.001	Halogenated Aliphatics	Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5
		1,1,2-trichloroethane	µg/L	0.5	<0.5
		1,3-dichloropropane	µg/L	0.5	<0.5
		Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5
		1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5
		1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5
		1,2,3-trichloropropane	µg/L	0.5	<0.5
		trans-1,4-dichloro-2-butene	µg/L	1	<1
		1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5
		Hexachlorobutadiene	µg/L	0.5	<0.5
	Halogenated Aromatics	Chlorobenzene	µg/L	0.5	<0.5
		Bromobenzene	µg/L	0.5	<0.5
		2-chlorotoluene	µg/L	0.5	<0.5
		4-chlorotoluene	µg/L	0.5	<0.5
		1,3-dichlorobenzene	µg/L	0.5	<0.5
		1,4-dichlorobenzene	µg/L	0.3	<0.3
		1,2-dichlorobenzene	µg/L	0.5	<0.5
		1,2,4-trichlorobenzene	µg/L	0.5	<0.5
		1,2,3-trichlorobenzene	µg/L	0.5	<0.5
	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		Styrene (Vinyl benzene)	µg/L	0.5	<0.5
		o-xylene	µg/L	0.5	<0.5
		Isopropylbenzene (Cumene)	µg/L	0.5	<0.5
		n-propylbenzene	µg/L	0.5	<0.5
		1,3,5-trimethylbenzene	µg/L	0.5	<0.5
		tert-butylbenzene	µg/L	0.5	<0.5
		1,2,4-trimethylbenzene	µg/L	0.5	<0.5
		sec-butylbenzene	µg/L	0.5	<0.5
		p-isopropyltoluene	µg/L	0.5	<0.5
		n-butylbenzene	µg/L	0.5	<0.5
	Nitrogenous Compounds	Acrylonitrile	µg/L	0.5	<0.5
	Oxygenated Compounds	Acetone (2-propanone)	µg/L	10	<10
		MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5
		Vinyl acetate*	µg/L	10	<10
		MEK (2-butanone)	µg/L	10	<10
		MIBK (4-methyl-2-pentanone)	µg/L	5	<5
		2-hexanone (MBK)	µg/L	5	<5
	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Sulphonated	Carbon disulfide	µg/L	2	<2
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	73
		d8-toluene (Surrogate)	%	-	80
		Bromofluorobenzene (Surrogate)	%	-	89
	Trihalomethanes	Chloroform (THM)	µg/L	0.5	<0.5
		Bromodichloromethane (THM)	µg/L	0.5	<0.5
		Dibromochloromethane (THM)	µg/L	0.5	<0.5
		Bromoform (THM)	µg/L	0.5	<0.5

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB361916.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	73
		d8-toluene (Surrogate)	%	-	80
		Bromofluorobenzene (Surrogate)	%	-	89

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Alkalinity

Method: ME-(AU)-[ENV]AN135

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289835.001	LB361885.006	Bicarbonate Alkalinity as CaCO3	mg/L	5	36	38	29	4
		Carbonate Alkalinity as CaCO3	mg/L	5	<5	<5	200	0
		Total Alkalinity as CaCO3	mg/L	5	36	38	29	4

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361752.006	Ammonia Nitrogen, NH_3 as N	mg/L	0.01	<0.01	<0.01	177	0

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289675.001	LB361815.024	Sulfate, SO4	mg/L	1	27	26	19	4
SE289780.002	LB361815.014	Chloride	mg/L	0.05	13000	13000	15	1

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361753.007	Conductivity @ 25 C	µS/cm	2	420	420	15	0

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361752.006	Filterable Reactive Phosphorus as P	mg/L	0.005	0.13	0.13	19	1

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289780.007	LB361817.015	Total Organic Carbon as NPOC	mg/L	0.2	9.2	11	17	15
SE289786.003	LB361817.022	Total Organic Carbon as NPOC	mg/L	0.2	5.9	5.8	18	2

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.005	LB361802.023	Mercury, Hg	µg/L	0.0001	<0.0001	<0.0001	158	0

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361752.006	Nitrite Nitrogen, NO2 as N	mg/L	0.005	<0.005	<0.005	200	0

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.002	LB361771.023	Naphthalene	µg/L	0.1	0.3	0.3	62	16
		2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
		Acenaphthylene	µg/L	0.1	<0.1	<0.1	200	0
		Acenaphthene	µg/L	0.1	<0.1	<0.1	200	0
		Fluorene	µg/L	0.1	<0.1	<0.1	200	0
		Phenanthrene	µg/L	0.1	<0.1	<0.1	200	0
		Anthracene	µg/L	0.1	<0.1	<0.1	200	0
		Fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
		Pyrene	µg/L	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	200	0
		Chrysene	µg/L	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.002	LB361771.023		Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.6	0.50	30	16
			2-fluorobiphenyl (Surrogate)	µg/L	-	0.5	0.44	30	16
			d14-p-terphenyl (Surrogate)	µg/L	-	0.5	0.46	30	17

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289748.001	LB361842.024	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	200	0
		Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.01	0.01	200	10
		Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.01	0.01	200	5
		Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.01	0.01	200	4
		Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Methylperfluoroctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Ethylperfluoroctane sulfonamide (N-EtFOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Methylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05	<0.05	200	0
		N-Ethylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05	<0.05	200	0
		2-(N-Methylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05	<0.05	200	0
		2-(N-Ethylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05	<0.05	200	0
		Sum of PFOS and PFHxS	µg/L	0.01	<0.01	<0.01	200	0
		Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFAS A	µg/L	0.01	0.02	0.02	200	5
		Sum of PFAS B	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFAS C	µg/L	0.01	0.01	0.01	200	10
		Sum of Positive PFAS	µg/L	0.01	0.04	0.04	200	6
SE289773.001	LB361842.023	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	200	0
		Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.01	<0.01	200	5
		Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples (continued)

Method: ME-(AU)-[ENV]AN404

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289773.001	LB361842.023	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Methylperfluoroctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Ethylperfluoroctane sulfonamide (N-EtFOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Methylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05	<0.05	200	0
		N-Ethylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05	<0.05	200	0
		2-(N-Methylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05	<0.05	200	0
		2-(N-Ethylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05	<0.05	200	0
		Sum of PFOS and PFHxS	µg/L	0.01	<0.01	<0.01	200	0
		Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFAS A	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFAS B	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFAS C	µg/L	0.01	0.01	<0.01	200	5
		Sum of Positive PFAS	µg/L	0.01	0.01	<0.01	200	5

pH in water

Method: ME-(AU)-[ENV]AN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361753.007	pH**	pH Units	-	7.5	7.5	16	0

Redox Potential (Eh) in water

Method: ME-(AU)-[ENV]AN240

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361755.003	Eh of Sample Relative to Standard H+ Electrode***	mV	-500	388	381	15	2

TKN Kjeldahl Digestion by Discrete Analyser

Method: ME-(AU)-[ENV]AN281/292

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289662.001	LB362010.027	Total Kjeldahl Nitrogen	mg/L	0.05	3.1	2.9	17	7
SE289765.002	LB362010.014	Total Kjeldahl Nitrogen	mg/L	0.05	1.7	1.7	18	1

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361877.011	Total Suspended Solids Dried at 103-105°C	mg/L	5	270	260	17	1

Total Dissolved Solids (TDS) in water

Method: ME-(AU)-[ENV]AN113

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289800.001	LB362093.016	Total Dissolved Solids Dried at 175-185°C	mg/L	10	2100	2000	15	3
SE289875.002	LB362093.013	Total Dissolved Solids Dried at 175-185°C	mg/L	10	3400	3400	15	1

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289875.003	LB362035.013	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Original	Duplicate	Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Total Phosphorus by Kjeldahl Digestion DA in Water (continued) — Method: ME-(AU)-[ENV]AN279/AN293

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289662.001	LB362010.027	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.5	1.4	16	4
SE289765.002	LB362010.014	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	0.04	0.05	62	26

Trace Metals (Dissolved) in Water by ICPMS — Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121A.016	LB362209.035	Arsenic	µg/L	1	<1	<1	200	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	<1	<1	200	0
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	200	0
SE289780.002	LB362209.014	Aluminium	µg/L	5	<5	<5	200	0
		Arsenic	µg/L	1	<1	<1	143	0
		Barium	µg/L	1	32	32	18	1
		Cadmium	µg/L	0.1	0.1	0.1	91	17
		Cobalt	µg/L	1	<1	<1	157	0
		Copper	µg/L	1	<1	<1	200	0
		Lead	µg/L	1	8	8	28	0
		Manganese	µg/L	1	23	25	19	5
		Nickel	µg/L	1	3	3	51	4
SE289786.003	LB362209.028	Aluminium	µg/L	5	27	24	35	13
		Antimony	µg/L	1	<1	<1	200	0
		Arsenic	µg/L	1	<1	<1	200	0
		Barium	µg/L	1	110	110	16	1
		Beryllium	µg/L	1	<1	<1	200	0
		Boron	µg/L	5	490	510	16	4
		Cadmium	µg/L	0.1	<0.1	0.1	108	17
		Chromium	µg/L	1	<1	<1	200	0
		Cobalt	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	1	<1	113	7
		Iron	µg/L	5	9	7	77	29
		Lead	µg/L	1	<1	<1	162	0
		Manganese	µg/L	1	190	190	16	2
		Molybdenum	µg/L	1	6	5	33	2
		Nickel	µg/L	1	<1	<1	125	0
		Selenium	µg/L	1	<1	<1	200	0
		Silver	µg/L	1	<1	<1	200	0
		Strontium	µg/L	1	110	110	16	2
		Uranium	µg/L	1	<1	<1	200	0
		Vanadium	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	134	0

TRH (Total Recoverable Hydrocarbons) in Water — Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.002	LB361771.023		TRH C10-C14	µg/L	50	270	260	49	4
			TRH C15-C28	µg/L	200	330	350	89	5
			TRH C29-C36	µg/L	200	<200	<200	200	0
			TRH C37-C40	µg/L	200	<200	<200	200	0
			TRH C10-C40	µg/L	320	690	700	76	2
		TRH F Bands	TRH >C10-C16	µg/L	60	290	290	51	1
			TRH >C10-C16 - Naphthalene (F2)	µg/L	60	290	290	51	1
			TRH >C16-C34 (F3)	µg/L	500	<500	<500	194	0
			TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

Turbidity — Method: ME-(AU)-[ENV]AN119

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289773.002	LB361734.007	Turbidity	NTU	0.5	1.6	1.5	48	9

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.001	LB361916.023	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	<5	200	0
		Aliphatics	Chloromethane	µg/L	5	<5	<5	200	0
			Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	<0.3	200	0
			Bromomethane	µg/L	10	<10	<10	200	0
			Chloroethane	µg/L	5	<5	<5	200	0
			Trichlorofluoromethane	µg/L	1	<1	<1	200	0
			1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Iodomethane	µg/L	5	<5	<5	200	0
			Dichloromethane (Methylene chloride)	µg/L	5	<5	<5	200	0
			Allyl chloride	µg/L	2	<2	<2	200	0
			trans-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Bromochloromethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			Carbon tetrachloride	µg/L	0.5	<0.5	<0.5	200	0
			Dibromomethane	µg/L	0.5	<0.5	<0.5	200	0
			Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2,3-trichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,4-dichloro-2-butene	µg/L	1	<1	<1	200	0
			1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	<0.5	200	0
			Hexachlorobutadiene	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated	Chlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatics	Bromobenzene	µg/L	0.5	<0.5	<0.5	200	0
			2-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0
			4-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,4-dichlorobenzene	µg/L	0.3	<0.3	<0.3	200	0
			1,2-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,4-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,3-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
		Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	1.5	1.0	71	39
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			Styrene (Vinyl benzene)	µg/L	0.5	<0.5	<0.5	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
			Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	<0.5	200	0
			n-propylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,3,5-trimethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			tert-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,4-trimethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			sec-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			p-isopropyltoluene	µg/L	0.5	<0.5	<0.5	200	0
			n-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
		Nitrogenous	Acrylonitrile	µg/L	0.5	<0.5	<0.5	200	0
		Compounds	2-nitropropane	µg/L	100	<100	<100	200	0
		Oxygenated	Acetone (2-propanone)	µg/L	10	<10	<10	200	0
		Compounds	MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5	<0.5	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water (continued) — **Method: ME-(AU)-[ENV]AN433**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.001	LB361916.023	Oxygenated Compounds	Vinyl acetate*	µg/L	10	<10	<10	200	0
			MEK (2-butanone)	µg/L	10	<10	<10	200	0
			MIBK (4-methyl-2-pentanone)	µg/L	5	<5	<5	200	0
			2-hexanone (MBK)	µg/L	5	<5	<5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Sulphonated	Carbon disulfide	µg/L	2	<2	<2	153	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.4	7.4	30	0
			d8-toluene (Surrogate)	µg/L	-	8.3	5.9	30	33 ①
			Bromofluorobenzene (Surrogate)	µg/L	-	9.4	9.3	30	1
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
			Total VOC	µg/L	10	<10	<10	200	0
		Trihalomethanes	Chloroform (THM)	µg/L	0.5	0.6	0.7	103	13
			Bromodichloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0
			Dibromochloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0
			Bromoform (THM)	µg/L	0.5	<0.5	<0.5	200	0
SE289786.003	LB361916.024	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	<5	200	0
			Chloromethane	µg/L	5	<5	<5	200	0
			Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	<0.3	200	0
			Bromomethane	µg/L	10	<10	<10	200	0
			Chloroethane	µg/L	5	<5	<5	200	0
			Trichlorofluoromethane	µg/L	1	<1	<1	200	0
			1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Iodomethane	µg/L	5	<5	<5	200	0
			Dichloromethane (Methylene chloride)	µg/L	5	<5	<5	200	0
			Allyl chloride	µg/L	2	<2	<2	200	0
			trans-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Bromochloromethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			Carbon tetrachloride	µg/L	0.5	<0.5	<0.5	200	0
			Dibromomethane	µg/L	0.5	<0.5	<0.5	200	0
			Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2,3-trichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,4-dichloro-2-butene	µg/L	1	<1	<1	200	0
			1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	<0.5	200	0
			Hexachlorobutadiene	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated Aromatics	Chlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			Bromobenzene	µg/L	0.5	<0.5	<0.5	200	0
			2-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0
			4-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,4-dichlorobenzene	µg/L	0.3	<0.3	<0.3	200	0
			1,2-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,4-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,3-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
		Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
			Toluene	µg/L	0.5	1.0	0.9	83	13
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361916.024	Monocyclic	m/p-xylene	µg/L	1	<1	<1	200	0
		Aromatic	Styrene (Vinyl benzene)	µg/L	0.5	<0.5	<0.5	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
			Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	<0.5	200	0
			n-propylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,3,5-trimethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			tert-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,4-trimethylbenzene	µg/L	0.5	0.5	<0.5	192	2
			sec-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			p-isopropyltoluene	µg/L	0.5	<0.5	<0.5	200	0
			n-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
		Nitrogenous	Acrylonitrile	µg/L	0.5	<0.5	<0.5	200	0
		Compounds	2-nitropropane	µg/L	100	<100	<100	200	0
		Oxygenated	Acetone (2-propanone)	µg/L	10	<10	<10	200	0
		Compounds	MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5	<0.5	200	0
			Vinyl acetate*	µg/L	10	<10	<10	200	0
			MEK (2-butanone)	µg/L	10	<10	<10	200	0
			MIBK (4-methyl-2-pentanone)	µg/L	5	<5	<5	200	0
			2-hexanone (MBK)	µg/L	5	<5	<5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Sulphonated	Carbon disulfide	µg/L	2	3	4	85	18
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.5	7.2	30	4
			d8-toluene (Surrogate)	µg/L	-	8.3	8.2	30	0
			Bromofluorobenzene (Surrogate)	µg/L	-	9.3	9.4	30	1
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
			Total VOC	µg/L	10	<10	10	131	4
		Trihalomethan	Chloroform (THM)	µg/L	0.5	3.9	5.0	41	26
		es	Bromodichloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0
			Dibromochloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0
			Bromoform (THM)	µg/L	0.5	<0.5	<0.5	200	0

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.001	LB361916.023		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.4	7.4	30	0
			d8-toluene (Surrogate)	µg/L	-	8.3	5.9	30	33 ①
			Bromofluorobenzene (Surrogate)	µg/L	-	9.4	9.3	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0
SE289786.003	LB361916.024		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.5	7.2	30	4
			d8-toluene (Surrogate)	µg/L	-	8.3	8.2	30	0
			Bromofluorobenzene (Surrogate)	µg/L	-	9.3	9.4	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361752.002	Ammonia Nitrogen, NH_3 as N	mg/L	0.01	2.5	2.5	80 - 120	101

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361815.002	Fluoride	mg/L	0.1	2.0	2	80 - 120	100
	Chloride	mg/L	0.05	18	20	80 - 120	92
	Bromide	mg/L	0.05	2.0	2	80 - 120	99
	Nitrate Nitrogen, NO3-N	mg/L	0.005	2.0	2	80 - 120	98
	Sulfate, SO4	mg/L	1	18	20	80 - 120	91

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361753.002	Conductivity @ 25 C	µS/cm	2	990	1015	85 - 115	98

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361752.002	Filterable Reactive Phosphorus as P	mg/L	0.005	0.10	0.1	80 - 120	103

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361817.002	Total Organic Carbon as NPOC	mg/L	0.2	17	20	80 - 120	87

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002	01-PAHs	Acenaphthene	µg/L	0.1	48	40	60 - 140	120
		Acenaphthylene	µg/L	0.1	46	40	60 - 140	114
		Anthracene	µg/L	0.1	49	40	60 - 140	121
		Benzo(a)pyrene	µg/L	0.1	51	40	60 - 140	126
		Fluoranthene	µg/L	0.1	45	40	60 - 140	113
		Naphthalene	µg/L	0.1	46	40	60 - 140	114
		Phenanthrene	µg/L	0.1	46	40	60 - 140	114
		Pyrene	µg/L	0.1	44	40	60 - 140	111
	02-OCs	Aldrin	µg/L	0.1	4.0	4	60 - 140	99
		Delta-BHC	µg/L	0.1	4.8	4	60 - 140	120
		p,p-DDT	µg/L	0.1	3.4	4	60 - 140	85
		Dieldrin	µg/L	0.1	4.9	4	60 - 140	123
		Endrin	µg/L	0.1	3.3	4	60 - 140	84
		Heptachlor	µg/L	0.1	3.2	4	60 - 140	80
	03-OPs	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	8.4	8	60 - 140	105
		Diazinon (Dimpylate)	µg/L	0.5	9.9	8	60 - 140	124
		Dichlorvos	µg/L	0.5	9.9	8	60 - 140	124
		Ethion	µg/L	0.2	6.9	8	60 - 140	86
	05-SVCH (Cl	Hexachlorobenzene (HCB)	µg/L	0.1	5.2	4	60 - 140	130
	Benzenes,	Hexachlorobutadiene	µg/L	0.5	5.3	4	60 - 140	132
		Hexachloroethane	µg/L	0.5	4.8	4	60 - 140	119
		Pentachlorobenzene	µg/L	0.5	5.1	4	60 - 140	128
		1,2,3,4-tetrachlorobenzene	µg/L	0.5	5.4	4	60 - 140	135
	06-Phthalates	Bis(2-ethylhexyl)phthalate	µg/L	10	<10	8	60 - 140	103
		Butyl benzyl phthalate	µg/L	1	6	8	60 - 140	81
		Di-n-butyl phthalate	µg/L	10	<10	8	60 - 140	100
		Diethyl phthalate	µg/L	5	9	8	60 - 140	108
		Dimethyl phthalate	µg/L	1	7	8	60 - 140	93
		Di-n-octyl phthalate	µg/L	1	7	8	60 - 140	83
	09-Nitrosamine	N-nitroso-di-n-propylamine (NDPA)	µg/L	1	33	32	60 - 140	104
	10-Nitroaromat	Pentachloronitrobenzene (quintozene)	µg/L	1	3	4	60 - 140	86

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Full 8270 SVOC in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002	14-Speciated	2,4-dichlorophenol	µg/L	0.5	46	40	60 - 140	114
	Routine	Phenol	µg/L	0.5	44	40	60 - 140	110
		2,4,6-trichlorophenol	µg/L	0.5	53	40	60 - 140	132
		Pentachlorophenol	µg/L	0.5	53	40	60 - 140	132
	Surrogates	d5-phenol (Surrogate)	µg/L	-	2.6	2	40 - 130	128
		d5-nitrobenzene (Surrogate)	µg/L	-	0.62	0.5	40 - 130	124
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.65	0.5	40 - 130	130
		2,4,6-Tribromophenol (Surrogate)	µg/L	-	6.4	5	40 - 130	127
		d14-p-terphenyl (Surrogate)	µg/L	-	0.61	0.5	40 - 130	122

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362206.002	Lithium, Li	mg/L	0.005	0.093	0.1	80 - 120	93
	Potassium, K	mg/L	0.1	55	55	80 - 120	100
	Silicon, Si*	mg/L	0.05	0.22	0.25	80 - 120	88
	Sodium, Na	mg/L	0.5	51	50.5	80 - 120	102

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361752.002	Nitrite Nitrogen, NO2 as N	mg/L	0.005	0.10	0.1	80 - 120	102

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002		Delta BHC	µg/L	0.1	0.2	0.2	60 - 140	111
		Heptachlor	µg/L	0.1	0.2	0.2	60 - 140	114
		Aldrin	µg/L	0.1	0.2	0.2	60 - 140	108
		Dieldrin	µg/L	0.1	0.2	0.2	60 - 140	107
		Endrin	µg/L	0.1	0.2	0.2	60 - 140	97
		p,p'-DDT	µg/L	0.1	0.2	0.2	60 - 140	97
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.14	0.15	40 - 130	94

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	9.6	8	60 - 140	120
		Diazinon (Dimpylate)	µg/L	0.5	9.8	8	60 - 140	122
		Dichlorvos	µg/L	0.5	6.4	8	60 - 140	80
		Ethion	µg/L	0.2	9.6	8	60 - 140	119
	Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.40	0.5	40 - 130	81
		d14-p-terphenyl (Surrogate)	µg/L	-	0.44	0.5	40 - 130	87

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002		Naphthalene	µg/L	0.1	40	40	60 - 140	101
		Acenaphthylene	µg/L	0.1	42	40	60 - 140	104
		Acenaphthene	µg/L	0.1	43	40	60 - 140	107
		Phenanthrene	µg/L	0.1	45	40	60 - 140	113
		Anthracene	µg/L	0.1	43	40	60 - 140	108
		Fluoranthene	µg/L	0.1	45	40	60 - 140	112
		Pyrene	µg/L	0.1	47	40	60 - 140	118
		Benzo(a)pyrene	µg/L	0.1	51	40	60 - 140	128
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.4	0.5	40 - 130	89
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	81
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	87

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002	Arochlor 1260	µg/L	1	<1	0.4	60 - 140	104

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples (continued)

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361842.002	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.20	0.2	40 - 160	99
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.18	0.2	40 - 160	89
	Perfluorononanoic acid (PFNA)	µg/L	0.01	0.21	0.2	40 - 160	104
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	0.21	0.2	40 - 160	107
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	0.16	0.2	40 - 160	80
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	0.14	0.2	40 - 160	71
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	0.17	0.2	40 - 160	84
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	0.16	0.2	40 - 160	81

pH in water

Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361753.003	pH**	No unit	-	7.4	7.415	98 - 102	100

Redox Potential (Eh) in water

Method: ME-(AU)-[ENV]AN240

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361755.001	Eh of Sample Relative to Standard H+ Electrode***	mV	-500	432	428	90 - 110	101

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361877.002	Total Suspended Solids Dried at 103-105°C	mg/L	5	98	100	80 - 120	98

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362035.002	Total Phenols	mg/L	0.05	0.19	0.2	80 - 120	97

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362010.002	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.1	1	80 - 120	110

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362209.002	Aluminium	µg/L	5	20	20	80 - 120	101
	Antimony	µg/L	1	19	20	80 - 120	97
	Arsenic	µg/L	1	20	20	80 - 120	98
	Barium	µg/L	1	20	20	80 - 120	99
	Beryllium	µg/L	1	20	20	80 - 120	98
	Boron	µg/L	5	20	20	80 - 120	99
	Cadmium	µg/L	0.1	20	20	80 - 120	102
	Chromium	µg/L	1	21	20	80 - 120	103
	Cobalt	µg/L	1	21	20	80 - 120	104
	Copper	µg/L	1	21	20	80 - 120	106
	Iron	µg/L	5	20	20	80 - 120	100
	Lead	µg/L	1	20	20	80 - 120	101
	Manganese	µg/L	1	20	20	80 - 120	102
	Molybdenum	µg/L	1	20	20	80 - 120	99
	Nickel	µg/L	1	21	20	80 - 120	105
	Selenium	µg/L	1	19	20	80 - 120	97
	Silver	µg/L	1	16	20	80 - 120	81
	Strontium	µg/L	1	21	20	80 - 120	105
	Uranium	µg/L	1	22	20	80 - 120	108
	Vanadium	µg/L	1	20	20	80 - 120	102
	Zinc	µg/L	5	20	20	80 - 120	102
LB362209.026	Aluminium	µg/L	5	20	20	80 - 120	102
	Antimony	µg/L	1	19	20	80 - 120	97

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Trace Metals (Dissolved) in Water by ICPMS (continued)

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362209.026	Arsenic	µg/L	1	19	20	80 - 120	97
	Barium	µg/L	1	20	20	80 - 120	100
	Beryllium	µg/L	1	19	20	80 - 120	95
	Boron	µg/L	5	19	20	80 - 120	97
	Cadmium	µg/L	0.1	20	20	80 - 120	100
	Chromium	µg/L	1	20	20	80 - 120	102
	Cobalt	µg/L	1	21	20	80 - 120	104
	Copper	µg/L	1	21	20	80 - 120	105
	Iron	µg/L	5	20	20	80 - 120	99
	Lead	µg/L	1	20	20	80 - 120	100
	Manganese	µg/L	1	20	20	80 - 120	99
	Molybdenum	µg/L	1	19	20	80 - 120	97
	Nickel	µg/L	1	20	20	80 - 120	102
	Selenium	µg/L	1	20	20	80 - 120	100
	Silver	µg/L	1	16	20	80 - 120	82
	Strontium	µg/L	1	21	20	80 - 120	107
	Uranium	µg/L	1	21	20	80 - 120	105
	Vanadium	µg/L	1	21	20	80 - 120	103
	Zinc	µg/L	5	20	20	80 - 120	102

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002		TRH C10-C14	µg/L	50	800	1000	60 - 140	80
	TRH F Bands	TRH >C10-C16	µg/L	60	800	1000	60 - 140	80

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361916.002	Halogenated	1,1-dichloroethene	µg/L	0.5	40	45.45	60 - 140	88
	Aliphatics	1,2-dichloroethane	µg/L	0.5	43	45.45	60 - 140	95
		Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	41	45.45	60 - 140	90
	Halogenated	Chlorobenzene	µg/L	0.5	34	45.45	60 - 140	74
	Monocyclic	Benzene	µg/L	0.5	20	25	60 - 140	78
	Aromatic	Toluene	µg/L	0.5	21	25	60 - 140	83
		Ethylbenzene	µg/L	0.5	20	25	60 - 140	80
		m/p-xylene	µg/L	1	43	50	60 - 140	86
		o-xylene	µg/L	0.5	22	25	60 - 140	89
	Trihalomethan	Chloroform (THM)	µg/L	0.5	53	45.45	60 - 140	118

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361916.002	TRH C6-C10	µg/L	50	350	400	60 - 140	89
	TRH C6-C9	µg/L	40	350	350	60 - 140	99

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289651.001	LB361815.025	Chloride	mg/L	0.05	34	17	20	86
		Nitrate Nitrogen, NO3-N	mg/L	0.005	2.0	0.030	2	98
		Sulfate, SO4	mg/L	1	21	2.5	20	93

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289745.001	LB361817.005	Total Organic Carbon as NPOC	mg/L	0.2	47	3.5	50	88

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289121A.016	LB361802.004	Mercury, Hg	mg/L	0.0001	0.0021	<0.0001	0.008	109

TKN Kjeldahl Digestion by Discrete Analyser

Method: ME-(AU)-[ENV]AN281/292

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289786.003	LB362010.028	Total Kjeldahl Nitrogen	mg/L	0.05	3.4	0.95	2.5	98

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289879.001	LB362035.004	Total Phenols	mg/L	0.05	0.25	0.07	0.2	94

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289786.003	LB362010.028	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.6	0.58	1	101

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289707.001	LB362209.004	Aluminium	µg/L	5	34	12	20	108
		Antimony	µg/L	1	20	<1	20	99
		Boron	µg/L	5	30	12	20	92
		Cadmium	µg/L	0.1	21	<0.1	20	104
		Chromium	µg/L	1	21	<1	20	105
		Copper	µg/L	1	79	58	20	103
		Iron	µg/L	5	33	13	20	101
		Lead	µg/L	1	21	<1	20	104
		Manganese	µg/L	1	24	3	20	104
		Nickel	µg/L	1	22	<1	20	105
		Zinc	µg/L	5	25	<5	20	102
SE289786.005	LB362209.030	Arsenic	µg/L	1	20	<1	20	98
		Cadmium	µg/L	0.1	20	<0.1	20	101
		Chromium	µg/L	1	21	<1	20	103
		Copper	µg/L	1	21	<1	20	105
		Lead	µg/L	1	21	<1	20	103
		Nickel	µg/L	1	20	<1	20	103
		Zinc	µg/L	5	21	<5	20	103

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE289829.024	LB361916.026	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5	-	-
			1,2-dichloropropane	µg/L	0.5	<0.5	-	-
			cis-1,3-dichloropropene	µg/L	0.5	<0.5	-	-
			trans-1,3-dichloropropene	µg/L	0.5	<0.5	-	-
			1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE289829.024	LB361916.026	Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	-	-
			Chloromethane	µg/L	5	<5	-	-
			Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	-	-
			Bromomethane	µg/L	10	<10	-	-
			Chloroethane	µg/L	5	<5	-	-
			Trichlorofluoromethane	µg/L	1	<1	-	-
			1,1-dichloroethene	µg/L	0.5	<0.5	45.45	126
			Iodomethane	µg/L	5	<5	-	-
			Dichloromethane (Methylene chloride)	µg/L	5	<5	-	-
			Allyl chloride	µg/L	2	<2	-	-
			trans-1,2-dichloroethene	µg/L	0.5	<0.5	-	-
			1,1-dichloroethane	µg/L	0.5	<0.5	-	-
			cis-1,2-dichloroethene	µg/L	0.5	<0.5	-	-
			Bromochloromethane	µg/L	0.5	<0.5	-	-
			1,2-dichloroethane	µg/L	0.5	<0.5	45.45	125
			1,1,1-trichloroethane	µg/L	0.5	<0.5	-	-
			1,1-dichloropropene	µg/L	0.5	<0.5	-	-
			Carbon tetrachloride	µg/L	0.5	<0.5	-	-
			Dibromomethane	µg/L	0.5	<0.5	-	-
			Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	45.45	138
			1,1,2-trichloroethane	µg/L	0.5	<0.5	-	-
			1,3-dichloropropane	µg/L	0.5	<0.5	-	-
			Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	-	-
			1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	-	-
			1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	-	-
			1,2,3-trichloropropane	µg/L	0.5	<0.5	-	-
			trans-1,4-dichloro-2-butene	µg/L	1	<1	-	-
			1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	-	-
			Hexachlorobutadiene	µg/L	0.5	<0.5	-	-
		Halogenated Aromatics	Chlorobenzene	µg/L	0.5	<0.5	45.45	88
			Bromobenzene	µg/L	0.5	<0.5	-	-
			2-chlorotoluene	µg/L	0.5	<0.5	-	-
			4-chlorotoluene	µg/L	0.5	<0.5	-	-
			1,3-dichlorobenzene	µg/L	0.5	<0.5	-	-
			1,4-dichlorobenzene	µg/L	0.3	<0.3	-	-
			1,2-dichlorobenzene	µg/L	0.5	<0.5	-	-
			1,2,4-trichlorobenzene	µg/L	0.5	<0.5	-	-
			1,2,3-trichlorobenzene	µg/L	0.5	<0.5	-	-
		Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	25	113
			Toluene	µg/L	0.5	<0.5	25	121
			Ethylbenzene	µg/L	0.5	<0.5	25	114
			m/p-xylene	µg/L	1	<1	50	120
			Styrene (Vinyl benzene)	µg/L	0.5	<0.5	-	-
			o-xylene	µg/L	0.5	<0.5	25	121
			Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	-	-
			n-propylbenzene	µg/L	0.5	<0.5	-	-
			1,3,5-trimethylbenzene	µg/L	0.5	<0.5	-	-
			tert-butylbenzene	µg/L	0.5	<0.5	-	-
			1,2,4-trimethylbenzene	µg/L	0.5	<0.5	-	-
			sec-butylbenzene	µg/L	0.5	<0.5	-	-
			p-isopropyltoluene	µg/L	0.5	<0.5	-	-
			n-butylbenzene	µg/L	0.5	<0.5	-	-
		Nitrogenous Compounds	Acrylonitrile	µg/L	0.5	<0.5	-	-
			2-nitropropane	µg/L	100	<100	-	-
		Oxygenated Compounds	Acetone (2-propanone)	µg/L	10	<10	-	-
			MtBE (Methyl-tert-butyl ether)	µg/L	0.5	43	-	-
			Vinyl acetate*	µg/L	10	<10	-	-
			MEK (2-butanone)	µg/L	10	<10	-	-
			MIBK (4-methyl-2-pentanone)	µg/L	5	<5	-	-
			2-hexanone (MBK)	µg/L	5	<5	-	-
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE289829.024	LB361916.026	Sulphonated	Carbon disulfide	µg/L	2	<2	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.5	-	83
			d8-toluene (Surrogate)	µg/L	-	8.2	-	95
			Bromofluorobenzene (Surrogate)	µg/L	-	9.3	-	94
		Totals	Total BTEX	µg/L	3	<3	-	-
			Total VOC	µg/L	10	43	-	-
		Trihalometha	Chloroform (THM)	µg/L	0.5	<0.5	45.45	139
		nes	Bromodichloromethane (THM)	µg/L	0.5	<0.5	-	-
			Dibromochloromethane (THM)	µg/L	0.5	<0.5	-	-
			Bromoform (THM)	µg/L	0.5	<0.5	-	-

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE289786.005	LB361916.025		TRH C6-C10	µg/L	50	<50	400	94
			TRH C6-C9	µg/L	40	<40	350	99
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.4	-	83
			d8-toluene (Surrogate)	µg/L	-	8.2	-	95
			Bromofluorobenzene (Surrogate)	µg/L	-	9.3	-	87
		VPH F	Benzene (F0)	µg/L	0.5	<0.5	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	-	-

MATRIX SPIKE DUPLICATES

SE289786 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
NA	Not Applicable
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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Sheet __1 of _1_

Site: 61 Marlborough Street, Surry Hills

Project No: E26534

Laboratory: **SGS Australia**
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	Sample Matrix: SOIL	WATER	0.45 µm field filtered	OTHER	Analysis: HM (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) /TRH (including F1, F2, F3, F4)/ BTEX/PAHs	HM [A] /TRH/BTEX/PAHs	HM A /TRH(including F1, F2, F3, F4)/ BTEX	BTEX	VOCs	pH/ Turbidity/ TDS /EC/ Hardness	Asbestos Quantification	Excavated Natural Material (ENM) Suite	ENM Suite - Stockpile discrete (TRH/BTEX/PAHs)	ENM Suite - Stockpile composite (HM [A] /pH / EC / Foreign Materials)	Dewatering Suite	DPE AN2 Full Suite - Mandatory and Other Parameters	sPOCAS	Chromium Reducible Sulfur (CrS)	PFAS	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	Hold	TCLP HM [B] / PAH
GW_BH101M_1	1	s,p,vc	19/09/2025	PM		X			X				X	X														
GW_BH102M_1	2	s,p,vc	19/09/2025	PM		X			X				X	X														
GW_BH103M_1	3	s,p,vc	18/09/2025	PM		X														X								
GW_BH100_QD1	4	s,p,vc	18/09/2025	PM		X					X																	
GW_BH100_QT1		s,p,vc	18/09/2025	PM		X					X																	
GW_BH100_QR1	5	s,p,vc	18/09/2025	PM		X					X																	
GW_BH100_QRB1		s,p,vc	18/09/2025	PM		X																					X	
Trip Blank	6	Lab Prepared										X																
Trip Spike	7	Lab Prepared										X																

SGS EHS Sydney COC
SE289786

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / TDU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND
- [X] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other_____

Container Type:
J = solvent washed, acid rinsed, Tefton sealed glass jar
S = solvent washed, acid rinsed glass bottle
P = natural HDPE plastic bottle
VC = glass vial, Tefton Septum
ZLB = Zip-Lock Bag BB = Bulk Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table ☐

Sampler's Name (EI): GT		Received by (SGS):	
Print	Geisiane Torres	*Print*	Joel M
Signature		*Signature*	
Date	19/09/2025	*Date*	19/9 @ 2:45 pm

Sampler's Comments:
CC: Ricardo Lopes and Sergio Raposeira. Please Forward GW_BH100_QT1 to Envirolab

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

eiaustralia
Contamination | Remediation | Geotechnical
Suite 6.01, 55 Miller Street,
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

source:Sydney_urgent_coc_250919_171905.pdf page: 1 SGS Ref: SE289786_COC

SAMPLE RECEIPT ADVICE

SE289786

CLIENT DETAILS

Contact	Geisiane Torres
Client	EI AUSTRALIA
Address	SUITE 6.01 55 MILLER STREET PYRMONT NSW 2009
Telephone	61 2 95160722
Facsimile	(Not specified)
Email	Geisiane.Torres @eiaustralia.com.au
Project	**E26534 61 Marlborough St, Surry Hills**
Order Number	**E26534**
Samples	7

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Fri 19/9/2025
Report Due	Fri 26/9/2025
SGS Reference	**SE289786**

SUBMISSION DETAILS

This is to confirm that 7 samples were received on Friday 19/9/2025. Results are expected to be ready by COB Friday 26/9/2025. Please quote SGS reference SE289786 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	7 Water	Type of documentation received	COC
Date documentation received	19/9/2025	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	14.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

1 water sample has been placed on hold as no tests have been assigned for it. This sample will not be processed.
QT1 forwarded to Envirolab.

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SAMPLE RECEIPT ADVICE

SE289786

CLIENT DETAILS

Client EI AUSTRALIA

Project E26534 61 Marlborough St, Surry Hills

SUMMARY OF ANALYSIS

No.	Sample ID	Full 8270 SVOC in Water	OC Pesticides in Water	OP Pesticides in Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	PCBs in Water	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	GW_BH101M_1	-	-	-	22	-	9	78	7
002	GW_BH102M_1	-	-	-	22	-	9	78	7
003	GW_BH103M_1	167	26	13	21	9	9	77	6
004	GW_BH100_QD1	-	-	-	-	-	9	11	7
005	GW_BH100_QR1	-	-	-	-	-	9	11	7
006	Trip Blank	-	-	-	-	-	-	11	-
007	Trip Spike	-	-	-	-	-	-	11	-

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE289786

CLIENT DETAILS

Client EI AUSTRALIA

Project E26534 61 Marlborough St, Surry Hills

SUMMARY OF ANALYSIS

No.	Sample ID	Alkalinity	Anions by Ion Chromatography in Water	Conductivity and TDS by Calculation - Water	Dissolved Oxygen by Membrane Electrode	Forms of Carbon	pH in water	Total and Volatile Suspended Solids (TSS /	Total Dissolved Solids (TDS) in water	Total Phenolics in Water	Turbidity
001	GW_BH101M_1	-	-	1	-	-	1	-	1	-	1
002	GW_BH102M_1	-	-	1	-	-	1	-	1	-	1
003	GW_BH103M_1	10	5	1	3	1	1	1	1	1	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
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SAMPLE RECEIPT ADVICE

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CLIENT DETAILS

Client EI AUSTRALIA

Project E26534 61 Marlborough St, Surry Hills

SUMMARY OF ANALYSIS

No.	Sample ID	Ammonia Nitrogen by Discrete Analyser	Calculation of Anion-Cation Balance	E. coli and Thermotolerant coliforms in Water (CFU)	Enterococci in Water	Filterable Reactive Phosphorus (FRP)	Nitrite in Water	Per- and Polyfluoroalkyl Substances (PFAS) in	Redox Potential (Eh) in water	TKN Kjeldahl Digestion by Discrete Analyser	Total Phosphorus by Kjeldahl Digestion DA in
003	GW_BH103M_1	1	4	3	3	1	2	60	2	2	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
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Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE289786

CLIENT DETAILS

Client EI AUSTRALIA

Project E26534 61 Marlborough St, Surry Hills

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Metals in Water (Dissolved) by ICPOES	Trace Metals (Dissolved) in Water by ICPMS
001	GW_BH101M_1	1	1	8
002	GW_BH102M_1	1	1	8
003	GW_BH103M_1	1	7	21
004	GW_BH100_QD1	1	-	7
005	GW_BH100_QR1	1	-	7

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

Appendix I – QA/QC Assessment

I1.1 Quality Assurance / Quality Control Program

Quality assurance comprises an assessment of the reliability of the field procedures and laboratory results against standard industry practices and the SAQP. A summary of the project QA/QC measures incorporated into this DSI is presented in **Table I-1**.

Table I-1 Project QC Measures

Task	Description	Project
Field QA/QC		
General	Work was to be undertaken following standard field procedures which are based on industry accepted standard practice.	Soil samples were collected directly from the augers. Soil samples were placed in 250 gram glass jars, which were filled to minimise headspace, and sealed using Teflon-coated lids. Groundwater samples were obtained using sample bottles/vials provided by the laboratory.
	All fieldwork was supervised by a suitably qualified and experienced scientist or engineer.	Yes
Soil Screening with PID	The PID was serviced and calibrated as per manufacturer requirements. PID calibrated at the beginning of each day of fieldwork.	Yes, calibration form is attached in **Appendix G**.
Equipment Decontamination	Sampling equipment to be decontaminated after the collection of each soil sample by washing with phosphate-free detergent (such as Decon 90 or Alconox) and potable water, followed by a final distilled water rinse. One rinsate blank would be collected and analysed for the primary contaminants. All results should be non-detect.	Yes. A total of two rinsate samples were collected. The results were reported below the laboratory LOR, indicating the decontamination acceptable.
Transport	Samples were stored in a chilled (with ice) cooler box and transported to the laboratories. To ensure the integrity of the samples from collection to receipt by the analytical laboratory, samples were sent by courier to the laboratories under 'chain of custody' describing sample preservation and transport duration.	Yes
Trip Blanks	Trip Blank (TB) samples were to be prepared and analysed by the primary laboratory for BTEX. Analytical results for this sample were below the laboratory LOR, indicating that ideal sample transport and handling conditions were achieved.	Two trip blank samples prepared by the primary laboratory were analysed for BTEX during soil and groundwater testing. The results were reported below the laboratory LOR, indicating that sample transport acceptable.

Task	Description	Project
Trip Spikes	Trip spike (TS) samples were to be submitted to the primary laboratory for BTEX analysis, the results for which were reported within the RPD acceptance levels for trip spike recovery. It was therefore concluded that satisfactory sample transport and handling conditions were achieved.	Two trip spike samples were submitted to the primary laboratory for BTEX analysis, the results of which were reported within the RPD acceptance levels for trip spike recovery. It was therefore concluded that satisfactory sample transport and handling conditions were achieved.
Duplicates	Field duplicate samples were analysed as follows: ▪ Intra-laboratory duplicate samples at a rate of 1 in 20 primary samples (as per NEPM); and ▪ Inter-laboratory duplicate samples at a rate of 1 in 20 primary samples (as per NEPM). Field and laboratory acceptable limits between 30-50% RPD as stated by AS4482.1–2005. RPDs that exceed this range may be considered acceptable where: ▪ Results are less than 10 times the limits of reporting (LOR); ▪ Results are less than 20 times the LOR and the RPD is less than 50%; or Heterogeneous materials or volatile compounds are encountered. Non-compliance is to be documented in the report and the sample re-analysed or a higher level conservatively adopted.	The required sampling density of 1 per 20 duplicated primary samples was achieved and sufficient for the investigation. Laboratory duplicates prepared and analysed. Field QC samples and calculated RPD values are presented in **Table B.2**. Copies of laboratory reports are included in **Appendix H**.
Laboratory QA/QC		
Laboratory Analysis	The laboratories selected are NATA accredited for the analytes selected and perform their own internal QA/QC programs.	Yes SGS - primary laboratory Envirolab - secondary laboratory Laboratory QA/QC analyses are included in **Appendix K**.
	Appropriate detection limits were used for the analyses to be undertaken.	Practical Quantitation Limits for all tested parameters during the DSI are presented in summary tables in **Appendix K**.
Holding Times	Holding times are the maximum permissible elapsed time in days from the collection of the sample to its extraction and/or analysis. All extraction and analyses should be completed within standard guidelines.	Assessment of holding times has been undertaken by the laboratory. All samples were within the holding times.

Task	Description	Project
Method Blanks	The method blank sample is laboratory prepared, containing the reagents used to prepare the sample for final analysis. The purpose of this procedure is to identify contamination in the reagent materials and assess potential bias in the sample analysis due to contaminated reagents. The QC criterion aims to find no detectable contamination in the reagents. Each analysis procedure should be subject to a method blank analysis. The results of each should indicate that contaminants were not detected.	Assessment of method blanks has been undertaken by the laboratory.
Laboratory Duplicates	Laboratory duplicates are field samples that are split in the laboratory and subsequently analysed a number of times in the same batch. These sub-samples are selected by the laboratory to assess the accuracy and precision of the analytical method. The selected laboratories should undertake QA/QC procedures such as calibration standards, laboratory control samples, surrogates, reference materials, sample duplicates and matrix spikes. Intra-laboratory duplicates should be performed at a frequency of 1 per 10 samples.	Assessment of laboratory duplicates has been undertaken by the laboratory. Duplicate RPD outside of acceptable range for PMs in soil sample due to sample heterogeneity. Duplicate RPD outside of acceptable range for TRH in water samples due to sample heterogeneity. Minor non-conformance, with negligible effects on data use for interpretative purposes.
Laboratory Control Standard	A laboratory control standard is a standard reference material used in preparing primary standards. The concentration should be equivalent to a mid-range standard to confirm the primary calibration. Laboratory control samples should be performed on a frequency of 1 per 20 samples or at least one per analytical run.	Assessment of laboratory control standards has been undertaken by the laboratory.
Matrix Spikes	Matric spikes are field samples to which a predetermined stock solution of known concentration has been added. The samples are then analysed for recovery of the known addition. Recoveries should be within the stated laboratory control limits of 70 to 130% and duplicates should have RPDs of less than 50%.	Assessment of matrix spikes has been undertaken by the laboratory. All samples were within the matrix spikes.

Task	Description	Project
Surrogate Spikes	Surrogate spikes provide a means of checking, for every analysis that no gross errors have occurred at any stage of the procedure leading to significant analyte loss. Recoveries should be within the stated laboratory control limits of 70 to 130%.	Assessment of surrogate spikes has been undertaken by the laboratory.
Conclusion	The QA/QC indicators should either all comply with the required standards or showed no variations that would have no significant effect on the quality of the data.	Assessment of the investigation QA/QC is presented in the following sections.

I1.2 Calculation of Relative Percentage Difference

The RPD values were calculated using the following equation:

$$RPD = \frac{|C_O - C_R|}{[(C_O + C_R)/2]} \times 100$$

Where:

C_O = Concentration obtained for the primary sample; and

C_R = Concentration obtained for the blind replicate or split duplicate sample.

I2.1 Field QA/QC

The field (intra- / inter- laboratory) duplicate samples collected during the works are summarised in **Table I-2**. Inter-lab duplicates were analysed by the secondary laboratory, Envirolab.

Table I-2 Field QC Sampling Program

Matrix	Primary QA Sample	Duplicate (Primary Lab)	Triplicate (Secondary Lab)	Total Duplicates
Soil	BH104_0.3-0.4	QA01	QC01	2
Groundwater	BH103M	GW_BH100_QD1	GW_BH100_QT1	2

I2.2 Field Data Quality Indicators

A discussion of the field data quality indicators is presented in **Table I-3** below.

Table I-3 Field Data Quality Indicators

DQI	Item	Conformance
Precision Measure of the variability (or reproducibility) of data.	SOPs appropriate and complied with	**Yes**
Accuracy Quantitative measure of the closeness of reported data to the true values.	SOPs appropriate and complied with	**Yes**
	Calibration of instruments against known standards	**Yes**
Representativeness Confidence the data are representative of each media present on the site.	Appropriate media sampled according to SAQP	**Yes**
	Each media identified in SAQP sampled	**Yes**
Completeness Percentage of useable data from sampling episode (set).	Each critical location sampled	**Yes**
	SAQP appropriate and complied with	**Yes**
	Appropriate number of field duplicate samples taken	**Yes**
	Experienced sampler	**Yes**
	Field documentation correct	**Yes**
Comparability Confidence [expressed qualitatively] that data may be considered to be equivalent for each sampling and analytical event.	Same sampling method used on each occasion/location	**Yes**
	Experienced sampler	**Yes**
	Same type of samples collected (filtered, size, fractions)	**Yes**

I2.3 Conclusion for the Field QA/QC

All field work, including equipment decontamination and sample preservation and transport, was conducted in accordance with the SAQP and SOPs, which were devised with reference to industry-approved guidelines. Appropriate QC measures were integrated into each sampling event and the DQI were met, or if not, the minor non-conformances had negligible effects on the data use for interpretative purposes.

All samples, including field QC samples, were transported to the primary and secondary laboratories under chilled conditions, using strict COC procedures. Relevant documents (COC forms) were presented with the samples at the times of delivery. All supporting documents (COCs and SRAs) were completed in full and signed, where appropriate. Copies of these are included in **Appendix H**. EI considered the field QA/QC program carried out during the DSI to be appropriate.

I2.4 Laboratory QA/QC

Primary and intra-laboratory duplicate samples were analysed by SGS (located in Alexandria NSW), with inter-laboratory duplicate samples analysed by Envirolab (located in Chatswood NSW). All laboratories are accredited by NATA for the analyses undertaken. A discussion of the laboratory DQIs is presented below.

Table I-4 Laboratory Data Quality Indicators

DQI	Item	Conformance
Completeness A measure of the amount of useable data (expressed as %) from a data collection activity	All critical samples analysed according to SAQP and proposal	**Yes**
	All analytes analysed according to SAQP in proposal	**Yes**
	Appropriate methods and PQLs	**Yes**
	Sample documentation complete	**Yes**
	Sample holding times complied with	**Yes**
Comparability The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event	Sample analytical methods used (including clean-up)	**Yes**
	Sample PQLs (justify/ quantify if different)	**Yes**
	Same laboratories (justify/ quantify if different)	**Yes**
	Same units (justify/ quantify if different)	**Yes**
Representativeness Confidence that data are representative of each media	All key samples analysed according to SAQP in the proposal	**Yes**
Precision A quantitative measure of the variability (or reproducibility) of data	Analysis of laboratory duplicates	**Yes**
	Analysis of field duplicates	**Yes**
	Analysis of laboratory-prepared volatile trip spikes	**Yes**
Accuracy A quantitative measure of the closeness of reported data to the true value	Analysis of field blanks	**Yes**
	Analysis of rinsate blanks	**Yes**
	Analysis of method blanks	**Yes**
	Analysis of matrix spikes (MS)	**Yes**
	Analysis of surrogate spikes	**Yes**
	Analysis of laboratory control samples	**Yes**

I2.5 Conclusions for the Laboratory QA/QC

All contracted laboratories (SGS and Envirolab) were accredited by NATA for the analyses undertaken. All analytical procedures used were industry recognised and endorsed standard methods. Appropriate QC measures were integrated into each testing batch and the DQI were met, or if not, the variability was suitably justified. All final reports were submitted in full and included all requested analyses, as per the signed COC forms. EI considered the laboratory QA/QC programs carried out during the DSI to be appropriate.

I2.6 Summary of Project QA/QC

The project DQOs specified in **Section 4**, **Table 4-1** were considered to have been achieved. The adopted QA/QC program ensured that the data collated during the DSI were accurate, precise and representative of the (final) site conditions. It was therefore considered that the data were reliable and that the results could be used for DSI interpretative purposes.

Appendix J – VISL CALCULATED RESULTS

Resident Air Inputs

Variable	Resident Air Default Value	Site-Specific Value
AF_{gw} (Attenuation Factor Groundwater) unitless	0.001	0.001
AF_{ss} (Attenuation Factor Sub-Slab) unitless	0.03	0.03
ED_{res} (exposure duration) years	26	26
ED_{0-2} (mutagenic exposure duration first phase) years	2	2
ED_{2-6} (mutagenic exposure duration second phase) years	4	4
ED_{6-16} (mutagenic exposure duration third phase) years	10	10
ED_{16-26} (mutagenic exposure duration fourth phase) years	10	10
EF_{res} (exposure frequency) days/year	350	350
EF_{0-2} (mutagenic exposure frequency first phase) days/year	350	350
EF_{2-6} (mutagenic exposure frequency second phase) days/year	350	350
EF_{6-16} (mutagenic exposure frequency third phase) days/year	350	350
EF_{16-26} (mutagenic exposure frequency fourth phase) days/year	350	350
ET_{res} (exposure time) hours/day	24	24
ET_{0-2} (mutagenic exposure time first phase) hours/day	24	24
ET_{2-6} (mutagenic exposure time second phase) hours/day	24	24
ET_{6-16} (mutagenic exposure time third phase) hours/day	24	24
ET_{16-26} (mutagenic exposure time fourth phase) hours/day	24	24
THQ (target hazard quotient) unitless	0.1	1
LT (lifetime) years	70	70
TR (target risk) unitless	1.0E-06	1.0E-06

Resident Vapor Intrusion Screening Levels (VISL)

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; U = user provided; G = see RSL User's Guide Section 5; CA = cancer; NC = noncancer.

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source? ($C_{vp} > C_{i,a}$,Target?)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? ($C_{hc} > C_{i,a}$,Target?)	Target Indoor Air Concentration (TCR=1E-06 or THQ=1) MIN($C_{ia,c}$,$C_{ia,nc}$) ($\mu g/m^3$)	Toxicity Basis	Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-06 or THQ=1) C_{sg},Target ($\mu g/m^3$)	Target Groundwater Concentration (TCR=1E-06 or THQ=1) C_{gw},Target ($\mu g/L$)
Dichloroethylene, cis-1,2-	156-59-2	Yes	Yes	Yes	Yes	4.17E+01	NC	1.39E+03	2.50E+02

Is Target Groundwater Concentration < MCL? (C_{gw} < MCL?)	Pure Phase Vapor Concentration C_{vp} (25 ℃)\ ($\mu g/m^3$)	Maximum Groundwater Vapor Concentration C_{hc} ($\mu g/m^3$)	Temperature for Maximum Groundwater Vapor Concentration (℃)	Lower Explosive Limit LEL (% by volume)	LEL Ref	IUR $(ug/m^3)^{-1}$	IUR Ref	RfC (mg/m^3)	RfC Ref	Mutagenic Indicator	Carcinogenic VISL TCR=1E-06 $C_{ia,c}$ ($\mu g/m^3$)	Noncarcinogenic VISL THQ=1 $C_{ia,nc}$ ($\mu g/m^3$)
No (70)	1.04E+09	1.07E+09	25	3.00	CRC	-		4.00E-02	X	No	-	4.17E+01

Resident Vapor Intrusion Risk

Chemical	CAS Number	Site Groundwater Concentration C_{gw} \ (μg/L)	Site Indoor Air Concentration $C_{i,a}$ \ (μg/m³)	VI Carcinogenic Risk CDI (μg/m³)	VI Carcinogenic Risk CR	VI Hazard CDI (mg/m³)	VI Hazard HQ	IUR (ug/m³)⁻¹	IUR Ref	RfC (mg/m³)	RfC Ref	Temperature (℃)\ for Groundwater Vapor Concentration	Mutagen?
Dichloroethylene, cis-1,2-	156-59-2	30	5.00E+00	1.78E+00	-	4.80E-03	1.20E-01	-		4.00E-02	X	25	No
*Sum		-	-	-	-	-	*1.20E-01*	-		-		-	

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Chemical Properties

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	MW	MW Ref	Vapor Pressure VP (mm Hg)	VP Ref	S (mg/L)	S Ref	MCL (ug/L)
Dichloroethylene, cis-1,2-	156-59-2	Yes	Yes	96.94	PHYSPROP	2.00E+02	PHYSPROP	6.41E+03	PHYSPROP	70

Henry's Law Constant (atm-m ^{3}/mole)	Henry's Law Constant (unitless)	H` and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T_C (K)	T_C Ref	Enthalpy of vaporization at the normal boiling point $\Delta H_{v,b}$ (cal/mol)	$\Delta H_{v,b}$ Ref	Lower Explosive Limit LEL (% by volume)	LEL Ref
4.08E-03	1.67E-01	PHYSPROP	1.67E-01	333.25	PHYSPROP	5.36E+02	CRC	7217.97	CRC	3.00	CRC

Resident Air Inputs

Variable	Resident Air Default Value	Site-Specific Value
AF_{gw} (Attenuation Factor Groundwater) unitless	0.001	0.001
AF_{ss} (Attenuation Factor Sub-Slab) unitless	0.03	0.03
ED_{res} (exposure duration) years	26	26
ED_{0-2} (mutagenic exposure duration first phase) years	2	2
ED_{2-6} (mutagenic exposure duration second phase) years	4	4
ED_{6-16} (mutagenic exposure duration third phase) years	10	10
ED_{16-26} (mutagenic exposure duration fourth phase) years	10	10
EF_{res} (exposure frequency) days/year	350	350
EF_{0-2} (mutagenic exposure frequency first phase) days/year	350	350
EF_{2-6} (mutagenic exposure frequency second phase) days/year	350	350
EF_{6-16} (mutagenic exposure frequency third phase) days/year	350	350
EF_{16-26} (mutagenic exposure frequency fourth phase) days/year	350	350
ET_{res} (exposure time) hours/day	24	24
ET_{0-2} (mutagenic exposure time first phase) hours/day	24	24
ET_{2-6} (mutagenic exposure time second phase) hours/day	24	24
ET_{6-16} (mutagenic exposure time third phase) hours/day	24	24
ET_{16-26} (mutagenic exposure time fourth phase) hours/day	24	24
THQ (target hazard quotient) unitless	0.1	1
LT (lifetime) years	70	70
TR (target risk) unitless	1.0E-06	1.0E-06

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Resident Vapor Intrusion Screening Levels (VISL)

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; U = user provided; G = see RSL User's Guide Section 5; CA = cancer; NC = noncancer.

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source? ($C_{vp} > C_{i,a}$,Target?)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? ($C_{hc} > C_{i,a}$,Target?)	Target Indoor Air Concentration (TCR=1E-06 or THQ=1) MIN($C_{ia,c}$,$C_{ia,nc}$) ($\mu g/m^3$)	Toxicity Basis	Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-06 or THQ=1) C_{sg},Target ($\mu g/m^3$)	Target Groundwater Concentration (TCR=1E-06 or THQ=1) C_{gw},Target ($\mu g/L$)
Trimethylbenzene, 1,3,5-	108-67-8	Yes	Yes	Yes	Yes	6.26E+01	NC	2.09E+03	1.75E+02

Is Target Groundwater Concentration < MCL? (C_{gw} < MCL?)	Pure Phase Vapor Concentration C_{vp} (25 ℃)\ ($\mu g/m^3$)	Maximum Groundwater Vapor Concentration C_{hc} ($\mu g/m^3$)	Temperature for Maximum Groundwater Vapor Concentration (℃)	Lower Explosive Limit LEL (% by volume)	LEL Ref	IUR (ug/m^3)$^{-1}$	IUR Ref	RfC (mg/m^3)	RfC Ref	Mutagenic Indicator	Carcinogenic VISL TCR=1E-06 $C_{ia,c}$ ($\mu g/m^3$)	Noncarcinogenic VISL THQ=1 $C_{ia,nc}$ ($\mu g/m^3$)
--	1.60E+07	1.73E+07	25	1.00	CRC	-		6.00E-02	I	No	-	6.26E+01

Resident Vapor Intrusion Risk

Chemical	CAS Number	Site Groundwater Concentration C_{gw} \ ($\mu g/L$)	Site Indoor Air Concentration $C_{i,a}$ \ ($\mu g/m^3$)	VI Carcinogenic Risk CDI ($\mu g/m^3$)	VI Carcinogenic Risk CR	VI Hazard CDI (mg/m^3)	VI Hazard HQ	IUR $(ug/m^3)^{-1}$	IUR Ref	RfC (mg/m^3)	RfC Ref	Temperature (℃)\ for Groundwater Vapor Concentration	Mutagen?
Trimethylbenzene, 1,3,5-	108-67-8	34	1.22E+01	4.34E+00	-	1.17E-02	1.95E-01	-		6.00E-02	I	25	No
**Sum*		-	-	-	-	-	*1.95E-01*	-		-		-	

Chemical Properties

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	MW	MW Ref	Vapor Pressure VP (mm Hg)	VP Ref	S (mg/L)	S Ref	MCL (ug/L)
Trimethylbenzene, 1,3,5-	108-67-8	Yes	Yes	120.20	PHYSPROP	2.48E+00	PHYSPROP	4.82E+01	PHYSPROP	-

Henry's Law Constant (atm-m ^{3}/mole)	Henry's Law Constant (unitless)	H` and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T_C (K)	T_C Ref	Enthalpy of vaporization at the normal boiling point $\Delta H_{v,b}$ (cal/mol)	$\Delta H_{v,b}$ Ref	Lower Explosive Limit LEL (% by volume)	LEL Ref
8.77E-03	3.59E-01	PHYSPROP	3.59E-01	437.85	PHYSPROP	6.37E+02	CRC	9321.00	TOXNET	1.00	CRC

Resident Air Inputs

Variable	Resident Air Default Value	Site-Specific Value
AF_{gw} (Attenuation Factor Groundwater) unitless	0.001	0.001
AF_{ss} (Attenuation Factor Sub-Slab) unitless	0.03	0.03
ED_{res} (exposure duration) years	26	26
ED_{0-2} (mutagenic exposure duration first phase) years	2	2
ED_{2-6} (mutagenic exposure duration second phase) years	4	4
ED_{6-16} (mutagenic exposure duration third phase) years	10	10
ED_{16-26} (mutagenic exposure duration fourth phase) years	10	10
EF_{res} (exposure frequency) days/year	350	350
EF_{0-2} (mutagenic exposure frequency first phase) days/year	350	350
EF_{2-6} (mutagenic exposure frequency second phase) days/year	350	350
EF_{6-16} (mutagenic exposure frequency third phase) days/year	350	350
EF_{16-26} (mutagenic exposure frequency fourth phase) days/year	350	350
ET_{res} (exposure time) hours/day	24	24
ET_{0-2} (mutagenic exposure time first phase) hours/day	24	24
ET_{2-6} (mutagenic exposure time second phase) hours/day	24	24
ET_{6-16} (mutagenic exposure time third phase) hours/day	24	24
ET_{16-26} (mutagenic exposure time fourth phase) hours/day	24	24
THQ (target hazard quotient) unitless	0.1	1
LT (lifetime) years	70	70
TR (target risk) unitless	1.0E-06	1.0E-06

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Resident Vapor Intrusion Screening Levels (VISL)

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; U = user provided; G = see RSL User's Guide Section 5; CA = cancer; NC = noncancer.

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source? ($C_{vp} > C_{i,a}$,Target?)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? ($C_{hc} > C_{i,a}$,Target?)	Target Indoor Air Concentration (TCR=1E-06 or THQ=1) MIN($C_{ia,c}$,$C_{ia,nc}$) ($\mu g/m^3$)	Toxicity Basis	Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-06 or THQ=1) C_{sg},Target ($\mu g/m^3$)	Target Groundwater Concentration (TCR=1E-06 or THQ=1) C_{gw},Target ($\mu g/L$)
Trimethylbenzene, 1,2,4-	95-63-6	Yes	Yes	Yes	Yes	6.26E+01	NC	2.09E+03	2.48E+02

Is Target Groundwater Concentration < MCL? (C_{gw} < MCL?)	Pure Phase Vapor Concentration C_{vp} (25 ℃)\ ($\mu g/m^3$)	Maximum Groundwater Vapor Concentration C_{hc} ($\mu g/m^3$)	Temperature for Maximum Groundwater Vapor Concentration (℃)	Lower Explosive Limit LEL (% by volume)	LEL Ref	IUR (ug/m^3)$^{-1}$	IUR Ref	RfC (mg/m^3)	RfC Ref	Mutagenic Indicator	Carcinogenic VISL TCR=1E-06 $C_{ia,c}$ ($\mu g/m^3$)	Noncarcinogenic VISL THQ=1 $C_{ia,nc}$ ($\mu g/m^3$)
--	1.36E+07	1.44E+07	25	0.90	CRC	-		6.00E-02	I	No	-	6.26E+01

Resident Vapor Intrusion Risk

Chemical	CAS Number	Site Groundwater Concentration C_{gw} \ (μg/L)	Site Indoor Air Concentration $C_{i,a}$ \ (μg/m³)	VI Carcinogenic Risk CDI (μg/m³)	VI Carcinogenic Risk CR	VI Hazard CDI (mg/m³)	VI Hazard HQ	IUR (ug/m³)$^{-1}$	IUR Ref	RfC (mg/m³)	RfC Ref	Temperature (℃)\ for Groundwater Vapor Concentration	Mutagen?
Trimethylbenzene, 1,2,4-	95-63-6	37	9.32E+00	3.32E+00	-	8.94E-03	1.49E-01	-		6.00E-02	I	25	No
**Sum*		-	-	-	-	-	*1.49E-01*	-		-		-	

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Chemical Properties

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	MW	MW Ref	Vapor Pressure VP (mm Hg)	VP Ref	S (mg/L)	S Ref	MCL (ug/L)
Trimethylbenzene, 1,2,4-	95-63-6	Yes	Yes	120.20	PHYSPROP	2.10E+00	PHYSPROP	5.70E+01	PHYSPROP	-

Henry's Law Constant (atm-m ^{3}/mole)	Henry's Law Constant (unitless)	H` and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T_C (K)	T_C Ref	Enthalpy of vaporization at the normal boiling point $\Delta H_{v,b}$ (cal/mol)	$\Delta H_{v,b}$ Ref	Lower Explosive Limit LEL (% by volume)	LEL Ref
6.16E-03	2.52E-01	PHYSPROP	2.52E-01	442.45	PHYSPROP	6.49E+02	CRC	9368.80	TOXNET	0.90	CRC

Resident Air Inputs

Variable	Resident Air Default Value	Site-Specific Value
AF_{gw} (Attenuation Factor Groundwater) unitless	0.001	0.001
AF_{ss} (Attenuation Factor Sub-Slab) unitless	0.03	0.03
ED_{res} (exposure duration) years	26	26
ED_{0-2} (mutagenic exposure duration first phase) years	2	2
ED_{2-6} (mutagenic exposure duration second phase) years	4	4
ED_{6-16} (mutagenic exposure duration third phase) years	10	10
ED_{16-26} (mutagenic exposure duration fourth phase) years	10	10
EF_{res} (exposure frequency) days/year	350	350
EF_{0-2} (mutagenic exposure frequency first phase) days/year	350	350
EF_{2-6} (mutagenic exposure frequency second phase) days/year	350	350
EF_{6-16} (mutagenic exposure frequency third phase) days/year	350	350
EF_{16-26} (mutagenic exposure frequency fourth phase) days/year	350	350
ET_{res} (exposure time) hours/day	24	24
ET_{0-2} (mutagenic exposure time first phase) hours/day	24	24
ET_{2-6} (mutagenic exposure time second phase) hours/day	24	24
ET_{6-16} (mutagenic exposure time third phase) hours/day	24	24
ET_{16-26} (mutagenic exposure time fourth phase) hours/day	24	24
THQ (target hazard quotient) unitless	0.1	1
LT (lifetime) years	70	70
TR (target risk) unitless	1.0E-06	1.0E-06

Resident Vapor Intrusion Screening Levels (VISL)

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; U = user provided; G = see RSL User's Guide Section 5; CA = cancer; NC = noncancer.

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source? (C_{vp} > $C_{i,a}$,Target?)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? (C_{hc} > $C_{i,a}$,Target?)	Target Indoor Air Concentration (TCR=1E-06 or THQ=1) MIN($C_{ia,c}$,$C_{ia,nc}$) ($\mu g/m^3$)	Toxicity Basis	Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-06 or THQ=1) C_{sg},Target ($\mu g/m^3$)	Target Groundwater Concentration (TCR=1E-06 or THQ=1) C_{gw},Target ($\mu g/L$)
Butylbenzene, n-	104-51-8	Yes	No	No Inhal. Tox. Info	No Inhal. Tox. Info	-		-	-

Is Target Groundwater Concentration < MCL? (C_{gw} < MCL?)	Pure Phase Vapor Concentration C_{vp} (25 °C)\ ($\mu g/m^3$)	Maximum Groundwater Vapor Concentration C_{hc} ($\mu g/m^3$)	Temperature for Maximum Groundwater Vapor Concentration (°C)	Lower Explosive Limit LEL (% by volume)	LEL Ref	IUR $(ug/m^3)^{-1}$	IUR Ref	RfC (mg/m^3)	RfC Ref	Mutagenic Indicator	Carcinogenic VISL TCR=1E-06 $C_{ia,c}$ ($\mu g/m^3$)	Noncarcinogenic VISL THQ=1 $C_{ia,nc}$ ($\mu g/m^3$)
	7.68E+06	7.67E+06	25	0.80	CRC	-		-		No	-	-

Resident Vapor Intrusion Risk

Chemical	CAS Number	Site Groundwater Concentration C_{gw} \ (μg/L)	Site Indoor Air Concentration $C_{i,a}$ \ (μg/m³)	VI Carcinogenic Risk CDI (μg/m³)	VI Carcinogenic Risk CR	VI Hazard CDI (mg/m³)	VI Hazard HQ	IUR (ug/m³)$^{-1}$	IUR Ref	RfC (mg/m³)	RfC Ref	Temperature (℃)\ for Groundwater Vapor Concentration	Mutagen?
Butylbenzene, n-	104-51-8	1.3	-	-	-	-	-	-		-		25	No
**Sum*		-	-	-	-	-	-	-		-		-	

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Chemical Properties

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	MW	MW Ref	Vapor Pressure VP (mm Hg)	VP Ref	S (mg/L)	S Ref	MCL (ug/L)
Butylbenzene, n-	104-51-8	Yes	No	134.22	PHYSPROP	1.06E+00	PHYSPROP	1.18E+01	PHYSPROP	-

Henry's Law Constant (atm-m ^{3}/mole)	Henry's Law Constant (unitless)	H` and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T_C (K)	T_C Ref	Enthalpy of vaporization at the normal boiling point $\Delta H_{v,b}$ (cal/mol)	$\Delta H_{v,b}$ Ref	Lower Explosive Limit LEL (% by volume)	LEL Ref
1.59E-02	6.50E-01	EPI	6.50E-01	456.45	PHYSPROP	6.61E+02	CRC	9290.15	CRC	0.80	CRC

Resident Air Inputs

Variable	Resident Air Default Value	Site-Specific Value
AF_{gw} (Attenuation Factor Groundwater) unitless	0.001	0.001
AF_{ss} (Attenuation Factor Sub-Slab) unitless	0.03	0.03
ED_{res} (exposure duration) years	26	26
ED_{0-2} (mutagenic exposure duration first phase) years	2	2
ED_{2-6} (mutagenic exposure duration second phase) years	4	4
ED_{6-16} (mutagenic exposure duration third phase) years	10	10
ED_{16-26} (mutagenic exposure duration fourth phase) years	10	10
EF_{res} (exposure frequency) days/year	350	350
EF_{0-2} (mutagenic exposure frequency first phase) days/year	350	350
EF_{2-6} (mutagenic exposure frequency second phase) days/year	350	350
EF_{6-16} (mutagenic exposure frequency third phase) days/year	350	350
EF_{16-26} (mutagenic exposure frequency fourth phase) days/year	350	350
ET_{res} (exposure time) hours/day	24	24
ET_{0-2} (mutagenic exposure time first phase) hours/day	24	24
ET_{2-6} (mutagenic exposure time second phase) hours/day	24	24
ET_{6-16} (mutagenic exposure time third phase) hours/day	24	24
ET_{16-26} (mutagenic exposure time fourth phase) hours/day	24	24
THQ (target hazard quotient) unitless	0.1	1
LT (lifetime) years	70	70
TR (target risk) unitless	1.0E-06	1.0E-06

Resident Vapor Intrusion Screening Levels (VISL)

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; U = user provided; G = see RSL User's Guide Section 5; CA = cancer; NC = noncancer.

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source? (C_{vp} > $C_{i,a}$,Target?)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? (C_{hc} > $C_{i,a}$,Target?)	Target Indoor Air Concentration (TCR=1E-06 or THQ=1) MIN($C_{ia,c}$,$C_{ia,nc}$) (µg/m³)	Toxicity Basis	Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-06 or THQ=1) C_{sg},Target (µg/m³)	Target Groundwater Concentration (TCR=1E-06 or THQ=1) C_{gw},Target (µg/L)
Trichloroethylene	79-01-6	Yes	Yes	Yes	Yes	4.78E-01	CA	1.59E+01	1.19E+00

Is Target Groundwater Concentration < MCL? (C_{gw} < MCL?)	Pure Phase Vapor Concentration C_{vp} (25 ℃)\ (µg/m³)	Maximum Groundwater Vapor Concentration C_{hc} (µg/m³)	Temperature for Maximum Groundwater Vapor Concentration (℃)	Lower Explosive Limit LEL (% by volume)	LEL Ref	IUR (ug/m³)$^{-1}$	IUR Ref	RfC (mg/m³)	RfC Ref	Mutagenic Indicator	Carcinogenic VISL TCR=1E-06 $C_{ia,c}$ (µg/m³)	Noncarcinogenic VISL THQ=1 $C_{ia,nc}$ (µg/m³)
Yes (5)	4.88E+08	5.15E+08	25	8.00	CRC	4.10E-06	I	2.00E-03	I	Mut	4.78E-01	2.09E+00

Resident Vapor Intrusion Risk

Chemical	CAS Number	Site Groundwater Concentration C_{gw} \ ($\mu g/L$)	Site Indoor Air Concentration $C_{i,a}$ \ ($\mu g/m^3$)	VI Carcinogenic Risk CDI ($\mu g/m^3$)	VI Carcinogenic Risk CR	VI Hazard CDI (mg/m^3)	VI Hazard HQ	IUR $(ug/m^3)^{-1}$	IUR Ref	RfC (mg/m^3)	RfC Ref	Temperature (℃)\ for Groundwater Vapor Concentration	Mutagen?
Trichloroethylene	79-01-6	0.6	2.42E-01	1.23E-01	5.05E-07	2.32E-04	1.16E-01	4.10E-06	I	2.00E-03	I	25	Mut
**Sum*		-	-	-	*5.05E-07*	-	*1.16E-01*	-		-		-	

Chemical Properties

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	MW	MW Ref	Vapor Pressure VP (mm Hg)	VP Ref	S (mg/L)	S Ref	MCL (ug/L)	Henry's Law Constant (atm-m ^{3}/mole)
Trichloroethylene	79-01-6	Yes	Yes	131.39	PHYSPROP	6.90E+01	PHYSPROP	1.28E+03	PHYSPROP	5	9.85E-03

Henry's Law Constant (unitless)	H` and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T_C (K)	T_C Ref	Enthalpy of vaporization at the normal boiling point $\Delta H_{v,b}$ (cal/mol)	$\Delta H_{v,b}$ Ref	Lower Explosive Limit LEL (% by volume)	LEL Ref
4.03E-01	PHYSPROP	4.03E-01	360.35	PHYSPROP	5.71E+02	YAWS	7504.78	CRC	8.00	CRC

Resident Air Inputs

Variable	Resident Air Default Value	Site-Specific Value
AF_{gw} (Attenuation Factor Groundwater) unitless	0.001	0.001
AF_{ss} (Attenuation Factor Sub-Slab) unitless	0.03	0.03
ED_{res} (exposure duration) years	26	26
ED_{0-2} (mutagenic exposure duration first phase) years	2	2
ED_{2-6} (mutagenic exposure duration second phase) years	4	4
ED_{6-16} (mutagenic exposure duration third phase) years	10	10
ED_{16-26} (mutagenic exposure duration fourth phase) years	10	10
EF_{res} (exposure frequency) days/year	350	350
EF_{0-2} (mutagenic exposure frequency first phase) days/year	350	350
EF_{2-6} (mutagenic exposure frequency second phase) days/year	350	350
EF_{6-16} (mutagenic exposure frequency third phase) days/year	350	350
EF_{16-26} (mutagenic exposure frequency fourth phase) days/year	350	350
ET_{res} (exposure time) hours/day	24	24
ET_{0-2} (mutagenic exposure time first phase) hours/day	24	24
ET_{2-6} (mutagenic exposure time second phase) hours/day	24	24
ET_{6-16} (mutagenic exposure time third phase) hours/day	24	24
ET_{16-26} (mutagenic exposure time fourth phase) hours/day	24	24
THQ (target hazard quotient) unitless	0.1	1
LT (lifetime) years	70	70
TR (target risk) unitless	1.0E-06	1.0E-06

Resident Vapor Intrusion Screening Levels (VISL)

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = DWSHA; W = TEF applied; E = RPF applied; U = user provided; G = see RSL User's Guide Section 5; CA = cancer; NC = noncancer.

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source? (C_{vp} > $C_{i,a}$,Target?)	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source? (C_{hc} > $C_{i,a}$,Target?)	Target Indoor Air Concentration (TCR=1E-06 or THQ=1) MIN($C_{ia,c}$,$C_{ia,nc}$) (µg/m³)	Toxicity Basis	Target Sub-Slab and Near-source Soil Gas Concentration (TCR=1E-06 or THQ=1) C_{sg},Target (µg/m³)	Target Groundwater Concentration (TCR=1E-06 or THQ=1) C_{gw},Target (µg/L)	Is Target Groundwater Concentration < MCL? (C_{gw} < MCL?)
Propyl benzene	103-65-1	Yes	Yes	Yes	Yes	1.04E+03	NC	3.48E+04	2.43E+03	--

Pure Phase Vapor Concentration C_{vp} (25 °C)\ (µg/m³)	Maximum Groundwater Vapor Concentration C_{hc} (µg/m³)	Temperature for Maximum Groundwater Vapor Concentration (°C)	Lower Explosive Limit LEL (% by volume)	LEL Ref	IUR (ug/m³)$^{-1}$	IUR Ref	RfC (mg/m³)	RfC Ref	Mutagenic Indicator	Carcinogenic VISL TCR=1E-06 $C_{ia,c}$ (µg/m³)	Noncarcinogenic VISL THQ=1 $C_{ia,nc}$ (µg/m³)
2.21E+07	2.24E+07	25	0.80	CRC	-		1.00E+00	X	No	-	1.04E+03

Resident Vapor Intrusion Risk

Chemical	CAS Number	Site Groundwater Concentration C_{gw}\ (µg/L)	Site Indoor Air Concentration $C_{i,a}$\ (µg/m³)	VI Carcinogenic Risk CDI (µg/m³)	VI Carcinogenic Risk CR	VI Hazard CDI (mg/m³)	VI Hazard HQ	IUR (ug/m³)$^{-1}$	IUR Ref	RfC (mg/m³)	RfC Ref	Temperature (℃)\ for Groundwater Vapor Concentration	Mutagen?
Propyl benzene	103-65-1	3.4	1.46E+00	5.20E-01	-	1.40E-03	1.40E-03	-		1.00E+00	X	25	No
**Sum*		-	-	-	-	-	*1.40E-03*	-		-		-	

Chemical Properties

Chemical	CAS Number	Does the chemical meet the definition for volatility? (HLC>1E-5 or VP>1)	Does the chemical have inhalation toxicity data? (IUR and/or RfC)	MW	MW Ref	Vapor Pressure VP (mm Hg)	VP Ref	S (mg/L)	S Ref	MCL (ug/L)	Henry's Law Constant (atm-m ^{3}/mole)	Henry's Law Constant (unitless)
Propyl benzene	103-65-1	Yes	Yes	120.20	PHYSPROP	3.42E+00	PHYSPROP	5.22E+01	PHYSPROP	-	1.05E-02	4.29E-01

H` and HLC Ref	Henry's Law Constant Used in Calcs (unitless)	Normal Boiling Point BP (K)	BP Ref	Critical Temperature T_C (K)	T_C Ref	Enthalpy of vaporization at the normal boiling point $\Delta H_{v,b}$ (cal/mol)	$\Delta H_{v,b}$ Ref	Lower Explosive Limit LEL (% by volume)	LEL Ref
PHYSPROP	4.29E-01	432.35	PHYSPROP	6.38E+02	CRC	9123.00	DECHEMA	0.80	CRC

Appendix K – LABORATORY QA/QC POLICIES AND DQOS

STATEMENT OF QA/QC PERFORMANCE

SE288901 R2

CLIENT DETAILS

Contact	Ricardo Lopes
Client	EI AUSTRALIA
Address	SUITE 6.01 55 MILLER STREET PYRMONT NSW 2009
Telephone	61 2 95160722
Facsimile	(Not specified)
Email	ricardo.lopes@eiaustralia.com.au
Project	**E26534 61 Marlborough St, Surry Hills**
Order Number	**E26534**
Samples	15

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE288901 R2**
Date Received	03 Sep 2025
Date Reported	12 Sep 2025

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Duplicate	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	3 items
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
	TRH (Total Recoverable Hydrocarbons) in Soil	1 item

SAMPLE SUMMARY

Sample counts by matrix	14 Soil , 1 Water	Type of documentation received	COC
Date documentation received	4/9/2025@3:24pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.6°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE288901 R2

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Fibre Identification in soil

Method: ME-(AU)-[ENV]AS4964/AN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101M_0.4-0.5	SE288901.001	LB360086	02 Sep 2025	03 Sep 2025	02 Sep 2026	08 Sep 2025	02 Sep 2026	11 Sep 2025
BH103M_0.5-0.6	SE288901.003	LB360086	03 Sep 2025	03 Sep 2025	03 Sep 2026	08 Sep 2025	03 Sep 2026	11 Sep 2025
BH104_0.3-0.4	SE288901.005	LB360086	03 Sep 2025	03 Sep 2025	03 Sep 2026	08 Sep 2025	03 Sep 2026	11 Sep 2025
BH105_0.2-0.3	SE288901.006	LB360086	03 Sep 2025	03 Sep 2025	03 Sep 2026	08 Sep 2025	03 Sep 2026	11 Sep 2025
BH106_0.2-0.3	SE288901.007	LB360086	03 Sep 2025	03 Sep 2025	03 Sep 2026	08 Sep 2025	03 Sep 2026	11 Sep 2025
BH107_0.4-0.5	SE288901.008	LB360086	03 Sep 2025	03 Sep 2025	03 Sep 2026	08 Sep 2025	03 Sep 2026	11 Sep 2025
BH108_0.2-0.3	SE288901.015	LB360086	03 Sep 2025	03 Sep 2025	03 Sep 2026	08 Sep 2025	03 Sep 2026	11 Sep 2025

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR1	SE288901.013	LB359854	03 Sep 2025	03 Sep 2025	01 Oct 2025	05 Sep 2025	01 Oct 2025	09 Sep 2025

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101M_0.4-0.5	SE288901.001	LB359820	02 Sep 2025	03 Sep 2025	30 Sep 2025	05 Sep 2025	30 Sep 2025	09 Sep 2025
BH101M_1.4-1.5	SE288901.002	LB359820	02 Sep 2025	03 Sep 2025	30 Sep 2025	05 Sep 2025	30 Sep 2025	09 Sep 2025
BH103M_0.5-0.6	SE288901.003	LB359820	03 Sep 2025	03 Sep 2025	01 Oct 2025	05 Sep 2025	01 Oct 2025	09 Sep 2025
BH103M_0.7-0.8	SE288901.004	LB359820	03 Sep 2025	03 Sep 2025	01 Oct 2025	05 Sep 2025	01 Oct 2025	09 Sep 2025
BH104_0.3-0.4	SE288901.005	LB359820	03 Sep 2025	03 Sep 2025	01 Oct 2025	05 Sep 2025	01 Oct 2025	09 Sep 2025
BH105_0.2-0.3	SE288901.006	LB359820	03 Sep 2025	03 Sep 2025	01 Oct 2025	05 Sep 2025	01 Oct 2025	09 Sep 2025
BH106_0.2-0.3	SE288901.007	LB359820	03 Sep 2025	03 Sep 2025	01 Oct 2025	05 Sep 2025	01 Oct 2025	09 Sep 2025
BH107_0.4-0.5	SE288901.008	LB359820	03 Sep 2025	03 Sep 2025	01 Oct 2025	05 Sep 2025	01 Oct 2025	09 Sep 2025
BH107_2.0-2.1	SE288901.009	LB359820	03 Sep 2025	03 Sep 2025	01 Oct 2025	05 Sep 2025	01 Oct 2025	09 Sep 2025
QA01	SE288901.010	LB359820	03 Sep 2025	03 Sep 2025	01 Oct 2025	05 Sep 2025	01 Oct 2025	09 Sep 2025
BH102M_0.3-0.4	SE288901.014	LB359820	03 Sep 2025	03 Sep 2025	01 Oct 2025	05 Sep 2025	01 Oct 2025	09 Sep 2025
BH108_0.2-0.3	SE288901.015	LB359820	03 Sep 2025	03 Sep 2025	01 Oct 2025	05 Sep 2025	01 Oct 2025	09 Sep 2025

Moisture Content

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101M_0.4-0.5	SE288901.001	LB359812	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025
BH101M_1.4-1.5	SE288901.002	LB359812	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025
BH103M_0.5-0.6	SE288901.003	LB359812	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025
BH103M_0.7-0.8	SE288901.004	LB359812	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025
BH104_0.3-0.4	SE288901.005	LB359812	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025
BH105_0.2-0.3	SE288901.006	LB359812	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025
BH106_0.2-0.3	SE288901.007	LB359812	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025
BH107_0.4-0.5	SE288901.008	LB359812	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025
BH107_2.0-2.1	SE288901.009	LB359812	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025
QA01	SE288901.010	LB359812	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025
TB	SE288901.011	LB359812	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025
BH102M_0.3-0.4	SE288901.014	LB359812	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025
BH108_0.2-0.3	SE288901.015	LB359812	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	10 Sep 2025	08 Sep 2025

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101M_0.4-0.5	SE288901.001	LB359784	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH101M_1.4-1.5	SE288901.002	LB359784	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH103M_0.5-0.6	SE288901.003	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH103M_0.7-0.8	SE288901.004	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH104_0.3-0.4	SE288901.005	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH105_0.2-0.3	SE288901.006	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH106_0.2-0.3	SE288901.007	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH107_0.4-0.5	SE288901.008	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH107_2.0-2.1	SE288901.009	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
QA01	SE288901.010	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH102M_0.3-0.4	SE288901.014	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH108_0.2-0.3	SE288901.015	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref

HOLDING TIME SUMMARY

SE288901 R2

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

OP Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101M_0.4-0.5	SE288901.001	LB359784	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH101M_1.4-1.5	SE288901.002	LB359784	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH103M_0.5-0.6	SE288901.003	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH103M_0.7-0.8	SE288901.004	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH104_0.3-0.4	SE288901.005	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH105_0.2-0.3	SE288901.006	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH106_0.2-0.3	SE288901.007	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH107_0.4-0.5	SE288901.008	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH107_2.0-2.1	SE288901.009	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
QA01	SE288901.010	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH102M_0.3-0.4	SE288901.014	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH108_0.2-0.3	SE288901.015	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101M_0.4-0.5	SE288901.001	LB359784	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH101M_1.4-1.5	SE288901.002	LB359784	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH103M_0.5-0.6	SE288901.003	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH103M_0.7-0.8	SE288901.004	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH104_0.3-0.4	SE288901.005	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH105_0.2-0.3	SE288901.006	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH106_0.2-0.3	SE288901.007	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH107_0.4-0.5	SE288901.008	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH107_2.0-2.1	SE288901.009	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
QA01	SE288901.010	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH102M_0.3-0.4	SE288901.014	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH108_0.2-0.3	SE288901.015	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101M_0.4-0.5	SE288901.001	LB359784	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH101M_1.4-1.5	SE288901.002	LB359784	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH103M_0.5-0.6	SE288901.003	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH103M_0.7-0.8	SE288901.004	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH104_0.3-0.4	SE288901.005	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH105_0.2-0.3	SE288901.006	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH106_0.2-0.3	SE288901.007	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH107_0.4-0.5	SE288901.008	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH107_2.0-2.1	SE288901.009	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
QA01	SE288901.010	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH102M_0.3-0.4	SE288901.014	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025
BH108_0.2-0.3	SE288901.015	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	08 Sep 2025

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101M_0.4-0.5	SE288901.001	LB359816	02 Sep 2025	03 Sep 2025	01 Mar 2026	05 Sep 2025	01 Mar 2026	09 Sep 2025
BH101M_1.4-1.5	SE288901.002	LB359816	02 Sep 2025	03 Sep 2025	01 Mar 2026	05 Sep 2025	01 Mar 2026	09 Sep 2025
BH103M_0.5-0.6	SE288901.003	LB359816	03 Sep 2025	03 Sep 2025	02 Mar 2026	05 Sep 2025	02 Mar 2026	09 Sep 2025
BH103M_0.7-0.8	SE288901.004	LB359816	03 Sep 2025	03 Sep 2025	02 Mar 2026	05 Sep 2025	02 Mar 2026	09 Sep 2025
BH104_0.3-0.4	SE288901.005	LB359816	03 Sep 2025	03 Sep 2025	02 Mar 2026	05 Sep 2025	02 Mar 2026	09 Sep 2025
BH105_0.2-0.3	SE288901.006	LB359816	03 Sep 2025	03 Sep 2025	02 Mar 2026	05 Sep 2025	02 Mar 2026	09 Sep 2025
BH106_0.2-0.3	SE288901.007	LB359816	03 Sep 2025	03 Sep 2025	02 Mar 2026	05 Sep 2025	02 Mar 2026	09 Sep 2025
BH107_0.4-0.5	SE288901.008	LB359816	03 Sep 2025	03 Sep 2025	02 Mar 2026	05 Sep 2025	02 Mar 2026	09 Sep 2025
BH107_2.0-2.1	SE288901.009	LB359816	03 Sep 2025	03 Sep 2025	02 Mar 2026	05 Sep 2025	02 Mar 2026	09 Sep 2025
QA01	SE288901.010	LB359816	03 Sep 2025	03 Sep 2025	02 Mar 2026	05 Sep 2025	02 Mar 2026	09 Sep 2025
BH102M_0.3-0.4	SE288901.014	LB359816	03 Sep 2025	03 Sep 2025	02 Mar 2026	05 Sep 2025	02 Mar 2026	09 Sep 2025
BH108_0.2-0.3	SE288901.015	LB359816	03 Sep 2025	03 Sep 2025	02 Mar 2026	05 Sep 2025	02 Mar 2026	09 Sep 2025

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR1	SE288901.013	LB359953	03 Sep 2025	03 Sep 2025	02 Mar 2026	08 Sep 2025	02 Mar 2026	08 Sep 2025

HOLDING TIME SUMMARY

SE288901 R2

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101M_0.4-0.5	SE288901.001	LB359784	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025
BH101M_1.4-1.5	SE288901.002	LB359784	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025
BH103M_0.5-0.6	SE288901.003	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025
BH103M_0.7-0.8	SE288901.004	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025
BH104_0.3-0.4	SE288901.005	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025
BH105_0.2-0.3	SE288901.006	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025
BH106_0.2-0.3	SE288901.007	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025
BH107_0.4-0.5	SE288901.008	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025
BH107_2.0-2.1	SE288901.009	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025
QA01	SE288901.010	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025
BH102M_0.3-0.4	SE288901.014	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025
BH108_0.2-0.3	SE288901.015	LB359784	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR1	SE288901.013	LB359796	03 Sep 2025	03 Sep 2025	10 Sep 2025	05 Sep 2025	15 Oct 2025	09 Sep 2025

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101M_0.4-0.5	SE288901.001	LB359809	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	16 Sep 2025	09 Sep 2025
BH101M_1.4-1.5	SE288901.002	LB359809	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	16 Sep 2025	09 Sep 2025
BH103M_0.5-0.6	SE288901.003	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH103M_0.7-0.8	SE288901.004	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH104_0.3-0.4	SE288901.005	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH105_0.2-0.3	SE288901.006	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH106_0.2-0.3	SE288901.007	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH107_0.4-0.5	SE288901.008	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH107_2.0-2.1	SE288901.009	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
QA01	SE288901.010	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
TB	SE288901.011	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
TS	SE288901.012	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH102M_0.3-0.4	SE288901.014	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH108_0.2-0.3	SE288901.015	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR1	SE288901.013	LB359825	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	10 Sep 2025

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH101M_0.4-0.5	SE288901.001	LB359809	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	16 Sep 2025	09 Sep 2025
BH101M_1.4-1.5	SE288901.002	LB359809	02 Sep 2025	03 Sep 2025	16 Sep 2025	05 Sep 2025	16 Sep 2025	09 Sep 2025
BH103M_0.5-0.6	SE288901.003	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH103M_0.7-0.8	SE288901.004	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH104_0.3-0.4	SE288901.005	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH105_0.2-0.3	SE288901.006	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH106_0.2-0.3	SE288901.007	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH107_0.4-0.5	SE288901.008	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH107_2.0-2.1	SE288901.009	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
QA01	SE288901.010	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
TB	SE288901.011	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
TS	SE288901.012	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH102M_0.3-0.4	SE288901.014	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025
BH108_0.2-0.3	SE288901.015	LB359809	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	09 Sep 2025

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QR1	SE288901.013	LB359825	03 Sep 2025	03 Sep 2025	17 Sep 2025	05 Sep 2025	17 Sep 2025	10 Sep 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	60 - 130%	96
	BH103M_0.5-0.6	SE288901.003	%	60 - 130%	96
	BH104_0.3-0.4	SE288901.005	%	60 - 130%	92
	BH105_0.2-0.3	SE288901.006	%	60 - 130%	97
	BH106_0.2-0.3	SE288901.007	%	60 - 130%	95
	BH107_0.4-0.5	SE288901.008	%	60 - 130%	95
	BH108_0.2-0.3	SE288901.015	%	60 - 130%	99

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	60 - 130%	91
	BH103M_0.5-0.6	SE288901.003	%	60 - 130%	91
	BH104_0.3-0.4	SE288901.005	%	60 - 130%	84
	BH105_0.2-0.3	SE288901.006	%	60 - 130%	91
	BH106_0.2-0.3	SE288901.007	%	60 - 130%	89
	BH107_0.4-0.5	SE288901.008	%	60 - 130%	86
	BH108_0.2-0.3	SE288901.015	%	60 - 130%	90
d14-p-terphenyl (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	60 - 130%	89
	BH103M_0.5-0.6	SE288901.003	%	60 - 130%	86
	BH104_0.3-0.4	SE288901.005	%	60 - 130%	84
	BH105_0.2-0.3	SE288901.006	%	60 - 130%	93
	BH106_0.2-0.3	SE288901.007	%	60 - 130%	92
	BH107_0.4-0.5	SE288901.008	%	60 - 130%	82
	BH108_0.2-0.3	SE288901.015	%	60 - 130%	94

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	70 - 130%	91
	BH101M_1.4-1.5	SE288901.002	%	70 - 130%	90
	BH103M_0.5-0.6	SE288901.003	%	70 - 130%	91
	BH103M_0.7-0.8	SE288901.004	%	70 - 130%	87
	BH104_0.3-0.4	SE288901.005	%	70 - 130%	84
	BH105_0.2-0.3	SE288901.006	%	70 - 130%	91
	BH106_0.2-0.3	SE288901.007	%	70 - 130%	89
	BH107_0.4-0.5	SE288901.008	%	70 - 130%	86
	BH107_2.0-2.1	SE288901.009	%	70 - 130%	86
	BH102M_0.3-0.4	SE288901.014	%	70 - 130%	91
	BH108_0.2-0.3	SE288901.015	%	70 - 130%	90
d14-p-terphenyl (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	70 - 130%	89
	BH101M_1.4-1.5	SE288901.002	%	70 - 130%	92
	BH103M_0.5-0.6	SE288901.003	%	70 - 130%	86
	BH103M_0.7-0.8	SE288901.004	%	70 - 130%	88
	BH104_0.3-0.4	SE288901.005	%	70 - 130%	84
	BH105_0.2-0.3	SE288901.006	%	70 - 130%	93
	BH106_0.2-0.3	SE288901.007	%	70 - 130%	92
	BH107_0.4-0.5	SE288901.008	%	70 - 130%	82
	BH107_2.0-2.1	SE288901.009	%	70 - 130%	91
	BH102M_0.3-0.4	SE288901.014	%	70 - 130%	91
	BH108_0.2-0.3	SE288901.015	%	70 - 130%	94
d5-nitrobenzene (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	70 - 130%	101
	BH101M_1.4-1.5	SE288901.002	%	70 - 130%	98
	BH103M_0.5-0.6	SE288901.003	%	70 - 130%	94
	BH103M_0.7-0.8	SE288901.004	%	70 - 130%	101
	BH104_0.3-0.4	SE288901.005	%	70 - 130%	93
	BH105_0.2-0.3	SE288901.006	%	70 - 130%	99
	BH106_0.2-0.3	SE288901.007	%	70 - 130%	97
	BH107_0.4-0.5	SE288901.008	%	70 - 130%	88
	BH107_2.0-2.1	SE288901.009	%	70 - 130%	103
	BH102M_0.3-0.4	SE288901.014	%	70 - 130%	104
	BH108_0.2-0.3	SE288901.015	%	70 - 130%	96

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	60 - 130%	96
	BH103M_0.5-0.6	SE288901.003	%	60 - 130%	96
	BH104_0.3-0.4	SE288901.005	%	60 - 130%	92
	BH105_0.2-0.3	SE288901.006	%	60 - 130%	97
	BH106_0.2-0.3	SE288901.007	%	60 - 130%	95
	BH107_0.4-0.5	SE288901.008	%	60 - 130%	95
	BH108_0.2-0.3	SE288901.015	%	60 - 130%	99

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	60 - 130%	96
	BH101M_1.4-1.5	SE288901.002	%	60 - 130%	82
	BH103M_0.5-0.6	SE288901.003	%	60 - 130%	96
	BH103M_0.7-0.8	SE288901.004	%	60 - 130%	87
	BH104_0.3-0.4	SE288901.005	%	60 - 130%	97
	BH105_0.2-0.3	SE288901.006	%	60 - 130%	90
	BH106_0.2-0.3	SE288901.007	%	60 - 130%	91
	BH107_0.4-0.5	SE288901.008	%	60 - 130%	94
	BH107_2.0-2.1	SE288901.009	%	60 - 130%	77
	QA01	SE288901.010	%	60 - 130%	91
	TB	SE288901.011	%	60 - 130%	89
	TS	SE288901.012	%	60 - 130%	87
	BH102M_0.3-0.4	SE288901.014	%	60 - 130%	89
	BH108_0.2-0.3	SE288901.015	%	60 - 130%	78
d4-1,2-dichloroethane (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	60 - 130%	86
	BH101M_1.4-1.5	SE288901.002	%	60 - 130%	77
	BH103M_0.5-0.6	SE288901.003	%	60 - 130%	86
	BH103M_0.7-0.8	SE288901.004	%	60 - 130%	83
	BH104_0.3-0.4	SE288901.005	%	60 - 130%	88
	BH105_0.2-0.3	SE288901.006	%	60 - 130%	79
	BH106_0.2-0.3	SE288901.007	%	60 - 130%	81
	BH107_0.4-0.5	SE288901.008	%	60 - 130%	84
	BH107_2.0-2.1	SE288901.009	%	60 - 130%	78
	QA01	SE288901.010	%	60 - 130%	91
	TB	SE288901.011	%	60 - 130%	91
	TS	SE288901.012	%	60 - 130%	89
	BH102M_0.3-0.4	SE288901.014	%	60 - 130%	89
	BH108_0.2-0.3	SE288901.015	%	60 - 130%	83
d8-toluene (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	60 - 130%	86
	BH101M_1.4-1.5	SE288901.002	%	60 - 130%	79
	BH103M_0.5-0.6	SE288901.003	%	60 - 130%	86
	BH103M_0.7-0.8	SE288901.004	%	60 - 130%	85
	BH104_0.3-0.4	SE288901.005	%	60 - 130%	89
	BH105_0.2-0.3	SE288901.006	%	60 - 130%	80
	BH106_0.2-0.3	SE288901.007	%	60 - 130%	82
	BH107_0.4-0.5	SE288901.008	%	60 - 130%	85
	BH107_2.0-2.1	SE288901.009	%	60 - 130%	80
	QA01	SE288901.010	%	60 - 130%	93
	TB	SE288901.011	%	60 - 130%	93
	TS	SE288901.012	%	60 - 130%	89
	BH102M_0.3-0.4	SE288901.014	%	60 - 130%	91
	BH108_0.2-0.3	SE288901.015	%	60 - 130%	83

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	QR1	SE288901.013	%	40 - 130%	92
d4-1,2-dichloroethane (Surrogate)	QR1	SE288901.013	%	40 - 130%	87
d8-toluene (Surrogate)	QR1	SE288901.013	%	40 - 130%	83

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	60 - 130%	96
	BH101M_1.4-1.5	SE288901.002	%	60 - 130%	82
	BH103M_0.5-0.6	SE288901.003	%	60 - 130%	96
	BH103M_0.7-0.8	SE288901.004	%	60 - 130%	87
	BH104_0.3-0.4	SE288901.005	%	60 - 130%	97
	BH105_0.2-0.3	SE288901.006	%	60 - 130%	90
	BH106_0.2-0.3	SE288901.007	%	60 - 130%	91
	BH107_0.4-0.5	SE288901.008	%	60 - 130%	94
	BH107_2.0-2.1	SE288901.009	%	60 - 130%	77
	QA01	SE288901.010	%	60 - 130%	91
	BH102M_0.3-0.4	SE288901.014	%	60 - 130%	89
	BH108_0.2-0.3	SE288901.015	%	60 - 130%	78
d4-1,2-dichloroethane (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	60 - 130%	86
	BH101M_1.4-1.5	SE288901.002	%	60 - 130%	77
	BH103M_0.5-0.6	SE288901.003	%	60 - 130%	86
	BH103M_0.7-0.8	SE288901.004	%	60 - 130%	83
	BH104_0.3-0.4	SE288901.005	%	60 - 130%	88
	BH105_0.2-0.3	SE288901.006	%	60 - 130%	79
	BH106_0.2-0.3	SE288901.007	%	60 - 130%	81
	BH107_0.4-0.5	SE288901.008	%	60 - 130%	84
	BH107_2.0-2.1	SE288901.009	%	60 - 130%	78
	QA01	SE288901.010	%	60 - 130%	91
	BH102M_0.3-0.4	SE288901.014	%	60 - 130%	89
	BH108_0.2-0.3	SE288901.015	%	60 - 130%	83
d8-toluene (Surrogate)	BH101M_0.4-0.5	SE288901.001	%	60 - 130%	86
	BH101M_1.4-1.5	SE288901.002	%	60 - 130%	79
	BH103M_0.5-0.6	SE288901.003	%	60 - 130%	86
	BH103M_0.7-0.8	SE288901.004	%	60 - 130%	85
	BH104_0.3-0.4	SE288901.005	%	60 - 130%	89
	BH105_0.2-0.3	SE288901.006	%	60 - 130%	80
	BH106_0.2-0.3	SE288901.007	%	60 - 130%	82
	BH107_0.4-0.5	SE288901.008	%	60 - 130%	85
	BH107_2.0-2.1	SE288901.009	%	60 - 130%	80
	QA01	SE288901.010	%	60 - 130%	93
	BH102M_0.3-0.4	SE288901.014	%	60 - 130%	91
	BH108_0.2-0.3	SE288901.015	%	60 - 130%	83

Volatile Petroleum Hydrocarbons in Water — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	QR1	SE288901.013	%	40 - 130%	92
d4-1,2-dichloroethane (Surrogate)	QR1	SE288901.013	%	60 - 130%	87
d8-toluene (Surrogate)	QR1	SE288901.013	%	40 - 130%	83

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB359854.001	Mercury, Hg	mg/L	0.0001	<0.0001

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result
LB359820.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB359784.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.1	<0.1
		Endrin	mg/kg	0.1	<0.1
		Beta Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	91

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB359784.001		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
		Bromophos Ethyl	mg/kg	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5
		Dichlorvos	mg/kg	0.5	<0.5
		Dimethoate	mg/kg	0.5	<0.5
		Ethion	mg/kg	0.2	<0.2
		Fenitrothion	mg/kg	0.2	<0.2
		Malathion	mg/kg	0.2	<0.2
		Methidathion	mg/kg	0.5	<0.5
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	87
		d14-p-terphenyl (Surrogate)	%	-	86

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB359784.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB359784.001		Fluoranthene	mg/kg	0.1	<0.1
		Pyrene	mg/kg	0.1	<0.1
		Benzo(a)anthracene	mg/kg	0.1	<0.1
		Chrysene	mg/kg	0.1	<0.1
		Benzo(a)pyrene	mg/kg	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
		Benzo(ghi)perylene	mg/kg	0.1	<0.1
		Total PAH (18)	mg/kg	0.8	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	85
		2-fluorobiphenyl (Surrogate)	%	-	87
		d14-p-terphenyl (Surrogate)	%	-	86

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB359784.001		Arochlor 1016	mg/kg	0.1	<0.1
		Arochlor 1221	mg/kg	0.1	<0.1
		Arochlor 1232	mg/kg	0.1	<0.1
		Arochlor 1242	mg/kg	0.1	<0.1
		Arochlor 1248	mg/kg	0.1	<0.1
		Arochlor 1254	mg/kg	0.1	<0.1
		Arochlor 1260	mg/kg	0.1	<0.1
		Total PCBs	mg/kg	0.1	<0.1
	Surrogates	TCMX (Surrogate)	%	-	91

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB359816.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB359953.001	Arsenic	µg/L	1	<1
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Copper	µg/L	1	<1
	Lead	µg/L	1	<1
	Nickel	µg/L	1	<1
	Zinc	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB359784.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB359796.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB359809.001	Fumigants	2,2-dichloropropane	mg/kg	0.1	<0.1
		1,2-dichloropropane	mg/kg	0.1	<0.1
		cis-1,3-dichloropropene	mg/kg	0.1	<0.1
		trans-1,3-dichloropropene	mg/kg	0.1	<0.1
		1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1
	Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1
		Chloromethane	mg/kg	1	<1
		Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1
		Bromomethane	mg/kg	1	<1
		Chloroethane	mg/kg	1	<1
		Trichlorofluoromethane	mg/kg	1	<1
		1,1-dichloroethene	mg/kg	0.1	<0.1
		Iodomethane	mg/kg	5	<5
		Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5
		Allyl chloride	mg/kg	0.1	<0.1
		trans-1,2-dichloroethene	mg/kg	0.1	<0.1
		1,1-dichloroethane	mg/kg	0.1	<0.1
		cis-1,2-dichloroethene	mg/kg	0.1	<0.1
		Bromochloromethane	mg/kg	0.1	<0.1
		1,2-dichloroethane	mg/kg	0.1	<0.1
		1,1,1-trichloroethane	mg/kg	0.1	<0.1
		1,1-dichloropropene	mg/kg	0.1	<0.1
		Carbon tetrachloride	mg/kg	0.1	<0.1
		Dibromomethane	mg/kg	0.1	<0.1
		Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1
		1,1,2-trichloroethane	mg/kg	0.1	<0.1
		1,3-dichloropropane	mg/kg	0.1	<0.1
		Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1
		1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1
		1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1
		1,2,3-trichloropropane	mg/kg	0.1	<0.1
		trans-1,4-dichloro-2-butene	mg/kg	1	<1
		1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1
		Hexachlorobutadiene	mg/kg	0.1	<0.1
	Halogenated Aromatics	Chlorobenzene	mg/kg	0.1	<0.1
		Bromobenzene	mg/kg	0.1	<0.1
		2-chlorotoluene	mg/kg	0.1	<0.1
		4-chlorotoluene	mg/kg	0.1	<0.1
		1,3-dichlorobenzene	mg/kg	0.1	<0.1
		1,4-dichlorobenzene	mg/kg	0.1	<0.1
		1,2-dichlorobenzene	mg/kg	0.1	<0.1
		1,2,4-trichlorobenzene	mg/kg	0.1	<0.1
		1,2,3-trichlorobenzene	mg/kg	0.1	<0.1
	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		Styrene (Vinyl benzene)	mg/kg	0.1	<0.1
		o-xylene	mg/kg	0.1	<0.1
		Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1
		n-propylbenzene	mg/kg	0.1	<0.1
		1,3,5-trimethylbenzene	mg/kg	0.1	<0.1
		tert-butylbenzene	mg/kg	0.1	<0.1
		1,2,4-trimethylbenzene	mg/kg	0.1	<0.1
		sec-butylbenzene	mg/kg	0.1	<0.1
		p-isopropyltoluene	mg/kg	0.1	<0.1
		n-butylbenzene	mg/kg	0.1	<0.1
	Nitrogenous Compounds	Acrylonitrile	mg/kg	0.1	<0.1
		2-nitropropane	mg/kg	10	<10
	Oxygenated Compounds	Acetone (2-propanone)	mg/kg	10	<10
		MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB359809.001	Oxygenated Compounds	Vinyl acetate*	mg/kg	10	<10
		MIBK (4-methyl-2-pentanone)	mg/kg	1	<1
		2-hexanone (MBK)	mg/kg	5	<5
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Sulphonated	Carbon disulfide	mg/kg	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	86
		d8-toluene (Surrogate)	%	-	88
		Bromofluorobenzene (Surrogate)	%	-	95
	Totals	Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8
		Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8
		Total BTEX*	mg/kg	0.6	<0.6
	Trihalomethanes	Chloroform (THM)	mg/kg	0.1	<0.1
		Bromodichloromethane (THM)	mg/kg	0.1	<0.1
		Dibromochloromethane (THM)	mg/kg	0.1	<0.1
		Bromoform (THM)	mg/kg	0.1	<0.1

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB359825.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	91
		d8-toluene (Surrogate)	%	-	74
		Bromofluorobenzene (Surrogate)	%	-	84

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB359809.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	86

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB359825.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	91
		d8-toluene (Surrogate)	%	-	74
		Bromofluorobenzene (Surrogate)	%	-	84

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.009	LB359820.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE288901.015	LB359820.018	Mercury	mg/kg	0.05	<0.05	<0.05	174	0

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.003	LB359812.011	% Moisture	%w/w	1	12.7	13.5	38	6
SE288901.015	LB359812.022	% Moisture	%w/w	1	13.8	14.1	37	2

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.003	LB359784.014		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.48	0.48	30	1
SE288901.015	LB359784.024		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.015	LB359784.024		Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.49	0.47	30	4

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.003	LB359784.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4	30	6
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	1
SE288901.015	LB359784.024		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.003	LB359784.014		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	0.1	115	32
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	0.3	0.3	65	4
			Anthracene	mg/kg	0.1	<0.1	<0.1	156	0
			Fluoranthene	mg/kg	0.1	0.9	1.2	39	23
			Pyrene	mg/kg	0.1	1.1	1.4	38	24
			Benzo(a)anthracene	mg/kg	0.1	0.8	1.1	41	29
			Chrysene	mg/kg	0.1	0.8	1.0	41	21
			Benzo(b&j)fluoranthene	mg/kg	0.1	0.7	0.9	43	30
			Benzo(k)fluoranthene	mg/kg	0.1	0.7	0.9	42	21
			Benzo(a)pyrene	mg/kg	0.1	1.2	1.5	37	24
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.9	1.1	40	29
			Dibenzo(ah)anthracene	mg/kg	0.1	0.2	0.2	78	37
			Benzo(ghi)perylene	mg/kg	0.1	0.6	0.7	46	23
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	1.7	2.2	20	26 ②
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	1.7	2.2	20	26 ②
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	1.7	2.2	26	26 ②
			Total PAH (18)	mg/kg	0.8	8.1	10	31	26
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	2

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.003	LB359784.014	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4	30	6
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	1
SE288901.015	LB359784.024		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.1	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.4	30	12
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.003	LB359784.014		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1260	mg/kg	0.1	<0.1	<0.1	200	0
			Total PCBs	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.48	0.48	30	1
SE288901.015	LB359784.024		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1260	mg/kg	0.1	<0.1	<0.1	200	0
			Total PCBs	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.50	0.48	30	4

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.009	LB359816.014		Arsenic, As	mg/kg	1	4	4	55	5
			Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
			Chromium, Cr	mg/kg	0.5	6.6	7.3	37	11
			Copper, Cu	mg/kg	0.5	34	36	31	7
			Nickel, Ni	mg/kg	0.5	4.4	5.2	40	16
			Lead, Pb	mg/kg	1	12	12	39	1
			Zinc, Zn	mg/kg	2	45	51	34	11
SE288901.015	LB359816.018		Arsenic, As	mg/kg	1	11	5	43	65 ②
			Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
			Chromium, Cr	mg/kg	0.5	5.7	5.3	39	7
			Copper, Cu	mg/kg	0.5	25	28	32	13

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.015	LB359816.018	Nickel, Ni	mg/kg	0.5	12	11	34	7
		Lead, Pb	mg/kg	1	25	20	34	25
		Zinc, Zn	mg/kg	2	82	77	33	6

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288867.003	LB359953.014	Zinc	µg/L	5	8	9	72	16
SE288912.006	LB359953.024	Arsenic	µg/L	1	<1	<1	200	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	<1	<1	200	0
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	200	0

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.003	LB359784.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	180	250	51	33
			TRH C29-C36	mg/kg	45	320	460	42	37
			TRH C37-C40	mg/kg	100	<100	120	132	16
			TRH C10-C36 Total	mg/kg	110	500	710	48	36
			TRH >C10-C40 Total (F bands)	mg/kg	210	570	830	60	36
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	450	640	46	36
			TRH >C34-C40 (F4)	mg/kg	120	130	190	107	39
SE288901.015	LB359784.024		TRH C10-C14	mg/kg	20	73	130	50	55 ④
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	130	140	15
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	48	83	68	54
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	48	83	68	54
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288881.001	LB359796.028		TRH C10-C14	µg/L	50	<50	<50	200	0
			TRH C15-C28	µg/L	200	<200	<200	200	0
			TRH C29-C36	µg/L	200	<200	<200	200	0
			TRH C37-C40	µg/L	200	<200	<200	200	0
			TRH C10-C40	µg/L	320	<320	<320	200	0
		TRH F Bands	TRH >C10-C16	µg/L	60	<60	<60	200	0
			TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	200	0
			TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
			TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.007	LB359809.014	Fumigants	2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	200	0
			1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	200	0
			cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	200	0
			trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	200	0
			1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	200	0
		Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	200	0
			Chloromethane	mg/kg	1	<1	<1	200	0
			Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	200	0
			Bromomethane	mg/kg	1	<1	<1	200	0
			Chloroethane	mg/kg	1	<1	<1	200	0
			Trichlorofluoromethane	mg/kg	1	<1	<1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.007	LB359809.014	Halogenated Aliphatics	1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	200	0
			Iodomethane	mg/kg	5	<5	<5	200	0
			Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	200	0
			Allyl chloride	mg/kg	0.1	<0.1	<0.1	200	0
			trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	200	0
			1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	200	0
			cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	200	0
			Bromochloromethane	mg/kg	0.1	<0.1	<0.1	200	0
			1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	200	0
			1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	200	0
			1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	200	0
			Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	200	0
			Dibromomethane	mg/kg	0.1	<0.1	<0.1	200	0
			Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	<0.1	200	0
			1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	200	0
			1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	200	0
			Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	200	0
			1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	200	0
			1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	200	0
			1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	200	0
			trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	200	0
			1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	200	0
		Halogenated Aromatics	Chlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			Bromobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	200	0
			4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	200	0
			1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
		Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
			Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	200	0
			n-propylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	200	0
			n-butylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
		Nitrogenous Compounds	Acrylonitrile	mg/kg	0.1	<0.1	<0.1	200	0
			2-nitropropane	mg/kg	10	<10	<10	200	0
		Oxygenated Compounds	Acetone (2-propanone)	mg/kg	10	<10	<10	200	0
			MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	200	0
			Vinyl acetate*	mg/kg	10	<10	<10	200	0
			MEK (2-butanone)	mg/kg	10	<10	<10	200	0
			MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	200	0
			2-hexanone (MBK)	mg/kg	5	<5	<5	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Sulphonated	Carbon disulfide	mg/kg	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.1	8.7	50	7
			d8-toluene (Surrogate)	mg/kg	-	8.2	8.8	50	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.1	9.8	50	8
		Totals	Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	200	0
			Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.007	LB359809.014	Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0	200	0
			Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0	200	0
			Total VOC*	mg/kg	24	<24	<24	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
		Trihalomethanes	Chloroform (THM)	mg/kg	0.1	<0.1	<0.1	200	0
			Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1	200	0
			Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1	200	0
			Bromoform (THM)	mg/kg	0.1	<0.1	<0.1	200	0
SE288901.015	LB359809.022	Fumigants	2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	200	0
			1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	200	0
			cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	200	0
			trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	200	0
			1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	200	0
		Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	200	0
			Chloromethane	mg/kg	1	<1	<1	200	0
			Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	200	0
			Bromomethane	mg/kg	1	<1	<1	200	0
			Chloroethane	mg/kg	1	<1	<1	200	0
			Trichlorofluoromethane	mg/kg	1	<1	<1	200	0
			1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	200	0
			Iodomethane	mg/kg	5	<5	<5	200	0
			Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	200	0
			Allyl chloride	mg/kg	0.1	<0.1	<0.1	200	0
			trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	200	0
			1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	200	0
			cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	200	0
			Bromochloromethane	mg/kg	0.1	<0.1	<0.1	200	0
			1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	200	0
			1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	200	0
			1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	200	0
			Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	200	0
			Dibromomethane	mg/kg	0.1	<0.1	<0.1	200	0
			Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	<0.1	200	0
			1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	200	0
			1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	200	0
			Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	200	0
			1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	200	0
			1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	200	0
			1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	200	0
			trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	200	0
			1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	200	0
		Halogenated Aromatics	Chlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			Bromobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	200	0
			4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	200	0
			1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
		Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
			Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	200	0
			n-propylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.015	LB359809.022	Monocyclic	tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	200	0
			n-butylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
		Nitrogenous	Acrylonitrile	mg/kg	0.1	<0.1	<0.1	200	0
		Compounds	2-nitropropane	mg/kg	10	<10	<10	200	0
		Oxygenated	Acetone (2-propanone)	mg/kg	10	<10	<10	200	0
		Compounds	MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	200	0
			Vinyl acetate*	mg/kg	10	<10	<10	200	0
			MEK (2-butanone)	mg/kg	10	<10	<10	200	0
			MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	200	0
			2-hexanone (MBK)	mg/kg	5	<5	<5	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Sulphonated	Carbon disulfide	mg/kg	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.3	7.9	50	4
			d8-toluene (Surrogate)	mg/kg	-	8.3	8.0	50	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.8	7.9	50	2
		Totals	Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	200	0
			Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	200	0
			Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0	200	0
			Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0	200	0
			Total VOC*	mg/kg	24	<24	<24	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
		Trihalomethan	Chloroform (THM)	mg/kg	0.1	<0.1	<0.1	200	0
		es	Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1	200	0
			Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1	200	0
			Bromoform (THM)	mg/kg	0.1	<0.1	<0.1	200	0

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288791.001	LB359825.024	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	8.9	30	10
			d8-toluene (Surrogate)	µg/L	-	8.1	8.4	30	3
			Bromofluorobenzene (Surrogate)	µg/L	-	9.6	9.6	30	0
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
SE288805.001	LB359825.026	Monocyclic	Benzene	µg/L	0.5	0.8	1.0	86	15
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	8.9	30	11
			d8-toluene (Surrogate)	µg/L	-	8.2	8.6	30	4
			Bromofluorobenzene (Surrogate)	µg/L	-	10.0	9.6	30	4
		Totals	Total BTEX	µg/L	3	<3	<3	200	0

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.007	LB359809.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.1	8.7	50	7
			d8-toluene (Surrogate)	mg/kg	-	8.2	8.8	50	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.1	9.8	50	8
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Volatile Petroleum Hydrocarbons in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288901.015	LB359809.022		TRH C6-C10	mg/kg	25	88	58	64	40
			TRH C6-C9	mg/kg	20	70	46	64	41
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.3	7.9	50	4
			d8-toluene (Surrogate)	mg/kg	-	8.3	8.0	50	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.8	7.9	50	2
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	88	58	64	40

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288791.001	LB359825.024		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	8.9	30	10
			d8-toluene (Surrogate)	µg/L	-	8.1	8.4	30	3
			Bromofluorobenzene (Surrogate)	µg/L	-	9.6	9.6	30	0
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0
SE288805.001	LB359825.023		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	8.9	30	11
			d8-toluene (Surrogate)	µg/L	-	8.2	8.6	30	4
			Bromofluorobenzene (Surrogate)	µg/L	-	10.0	9.6	30	4
		VPH F Bands	Benzene (F0)	µg/L	0.5	0.8	1.0	86	15
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359820.002	Mercury	mg/kg	0.05	0.22	0.2	80 - 120	112

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359784.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	82
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	77
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	80
		Dieldrin	mg/kg	0.1	0.2	0.2	60 - 140	116
		Endrin	mg/kg	0.1	0.2	0.2	60 - 140	96
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	84
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.47	0.5	40 - 130	93

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359784.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.7	2	60 - 140	83
		Diazinon (Dimpylate)	mg/kg	0.5	2.1	2	60 - 140	107
		Dichlorvos	mg/kg	0.5	1.8	2	60 - 140	92
		Ethion	mg/kg	0.2	1.6	2	60 - 140	79
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	92
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	99

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359784.002		Naphthalene	mg/kg	0.1	4.2	4	60 - 140	106
		Acenaphthylene	mg/kg	0.1	4.1	4	60 - 140	103
		Acenaphthene	mg/kg	0.1	4.3	4	60 - 140	107
		Phenanthrene	mg/kg	0.1	4.6	4	60 - 140	115
		Anthracene	mg/kg	0.1	4.7	4	60 - 140	116
		Fluoranthene	mg/kg	0.1	5.4	4	60 - 140	136
		Pyrene	mg/kg	0.1	5.4	4	60 - 140	135
		Benzo(a)pyrene	mg/kg	0.1	4.3	4	60 - 140	107
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	89
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	92
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	99

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359784.002		Arochlor 1260	mg/kg	0.1	0.3	0.4	60 - 140	84
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.47	0.5	40 - 130	93

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359816.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	106
	Cadmium, Cd	mg/kg	0.3	4.0	4.81	70 - 130	84
	Chromium, Cr	mg/kg	0.5	39	38.31	80 - 120	102
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	107
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	101
	Lead, Pb	mg/kg	1	91	89.9	80 - 120	101
	Zinc, Zn	mg/kg	2	280	273	80 - 120	102

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359953.002	Arsenic	µg/L	1	19	20	80 - 120	97
	Cadmium	µg/L	0.1	20	20	80 - 120	101
	Chromium	µg/L	1	20	20	80 - 120	101
	Copper	µg/L	1	21	20	80 - 120	103
	Lead	µg/L	1	21	20	80 - 120	103
	Nickel	µg/L	1	20	20	80 - 120	101
	Zinc	µg/L	5	18	20	80 - 120	92

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359784.002		TRH C10-C14	mg/kg	20	200	200	60 - 140	99
	TRH F Bands	TRH >C10-C16	mg/kg	25	200	200	60 - 140	99

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359796.002		TRH C10-C14	µg/L	50	860	1000	60 - 140	86
	TRH F Bands	TRH >C10-C16	µg/L	60	880	1000	60 - 140	88

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359809.002	Halogenated	1,1-dichloroethene	mg/kg	0.1	4.2	5	60 - 140	85
	Aliphatics	1,2-dichloroethane	mg/kg	0.1	4.0	5	60 - 140	79
		Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	4.2	5	60 - 140	85
	Halogenated	Chlorobenzene	mg/kg	0.1	4.0	5	60 - 140	79
	Monocyclic	Benzene	mg/kg	0.1	1.9	2.2	60 - 140	85
	Aromatic	Toluene	mg/kg	0.1	1.8	2.2	60 - 140	84
		Ethylbenzene	mg/kg	0.1	1.8	2.2	60 - 140	81
		m/p-xylene	mg/kg	0.2	3.8	4.4	60 - 140	85
		o-xylene	mg/kg	0.1	2.0	2.2	60 - 140	90
	Trihalomethan	Chloroform (THM)	mg/kg	0.1	4.4	5	60 - 140	87

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359825.002	Monocyclic	Benzene	µg/L	0.5	25	25	60 - 140	100
	Aromatic	Toluene	µg/L	0.5	25	25	60 - 140	99
		Ethylbenzene	µg/L	0.5	25	25	60 - 140	101
		m/p-xylene	µg/L	1	49	50	60 - 140	98
		o-xylene	µg/L	0.5	26	25	60 - 140	104

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359809.002	TRH C6-C10	mg/kg	25	25	35.2	60 - 140	72
	TRH C6-C9	mg/kg	20	24	30.8	60 - 140	78

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359825.002	TRH C6-C10	µg/L	50	250	400	60 - 140	62
	TRH C6-C9	µg/L	40	240	350	60 - 140	69

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE288805.001	LB359854.004	Mercury, Hg	mg/L	0.0001	0.0017	<0.0001	0.008	90

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE288666.001	LB359820.004	Mercury	mg/kg	0.05	0.22	<0.05	0.2	90

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE288666.001	LB359784.004		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
			Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	-	-
			Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	85
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	77
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	79
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.1	0.2	<0.1	0.2	118
			Endrin	mg/kg	0.1	0.2	<0.1	0.2	96
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	83
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	-	-
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
			Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			Total OC Pesticides	mg/kg	0.1	1.1	<0.1	-	-
			Total OC VIC EPA IWRG621	mg/kg	0.1	1.1	<0.1	-	-
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	0.5	<0.1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.47	0.47	-	94

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE288666.001	LB359784.004		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.6	<0.2	2	79
			Diazinon (Dimpylate)	mg/kg	0.5	2.1	<0.5	2	103
			Dichlorvos	mg/kg	0.5	1.8	<0.5	2	91
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	1.5	<0.2	2	74
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
			Malathion	mg/kg	0.2	<0.2	<0.2	-	-
			Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
			Total OP Pesticides*	mg/kg	1.7	7.0	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	94
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.4	-	100

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE288666.001	LB359784.004	Naphthalene	mg/kg	0.1	4.2	<0.1	4	104
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE288666.001	LB359784.004		Acenaphthylene	mg/kg	0.1	4.1	<0.1	4	102
			Acenaphthene	mg/kg	0.1	4.3	<0.1	4	106
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.7	<0.1	4	117
			Anthracene	mg/kg	0.1	4.6	<0.1	4	116
			Fluoranthene	mg/kg	0.1	5.5	<0.1	4	138
			Pyrene	mg/kg	0.1	5.5	<0.1	4	138
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1	4.2	<0.1	4	105
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	4.2	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	4.3	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	4.3	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	37	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	-	88
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	94
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.4	-	100

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE288666.001	LB359784.004		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1260	mg/kg	0.1	0.3	<0.1	0.4	84
			Total PCBs	mg/kg	0.1	0.3	<0.1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.47	0.47	-	94

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE288966.001	LB359953.004		Copper	µg/L	1	22	2	20	100
			Nickel	µg/L	1	20	<1	20	99
			Zinc	µg/L	5	19	<5	20	99

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE288666.001	LB359784.004		TRH C10-C14	mg/kg	20	220	<20	200	112
			TRH C15-C28	mg/kg	45	<45	<45	-	-
			TRH C29-C36	mg/kg	45	<45	<45	-	-
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	220	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	230	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	230	<25	200	111
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	230	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	-	-
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE288666.001	LB359809.004	Monocyclic Aromatic	Benzene	mg/kg	0.1	2.3	<0.1	2.2	106
			Toluene	mg/kg	0.1	2.2	<0.1	2.2	101
			Ethylbenzene	mg/kg	0.1	2.3	<0.1	2.2	106
			m/p-xylene	mg/kg	0.2	4.7	<0.2	4.4	106
			o-xylene	mg/kg	0.1	2.3	<0.1	2.2	106
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE288666.001	LB359809.004	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.9	8.0	-	79
			d8-toluene (Surrogate)	mg/kg	-	8.0	7.9	-	80
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.5	8.0	-	85
		Totals	Total BTEX*	mg/kg	0.6	14	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	7.0	<0.3	-	-

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE288832.001	LB359825.025	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	25	98
			Toluene	µg/L	0.5	<0.5	25	91
			Ethylbenzene	µg/L	0.5	<0.5	25	89
			m/p-xylene	µg/L	1	<1	50	87
			o-xylene	µg/L	0.5	<0.5	25	94
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	-	96
			d8-toluene (Surrogate)	µg/L	-	8.1	-	92
			Bromofluorobenzene (Surrogate)	µg/L	-	9.6	-	90
		Totals	Total BTEX	µg/L	3	<3	-	-

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE288666.001	LB359809.004		TRH C6-C10	mg/kg	25	35	<25	35.2	98
			TRH C6-C9	mg/kg	20	31	<20	30.8	101
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.9	8.0	-	79
			d8-toluene (Surrogate)	mg/kg	-	8.0	7.9	-	80
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.5	8.0	-	85
		VPH F Bands	Benzene (F0)	mg/kg	0.1	2.3	<0.1	-	-
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	-	-

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE288832.001	LB359825.025		TRH C6-C10	µg/L	50	<50	400	73
			TRH C6-C9	µg/L	40	<40	350	77
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	-	96
			d8-toluene (Surrogate)	µg/L	-	8.1	-	92
			Bromofluorobenzene (Surrogate)	µg/L	-	9.6	-	90
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	-	-
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	-	-

MATRIX SPIKE DUPLICATES

SE288901 R2

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
NA	Not Applicable
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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STATEMENT OF QA/QC PERFORMANCE

SE289786 R0

CLIENT DETAILS

Contact	Geisiane Torres
Client	EI AUSTRALIA
Address	SUITE 6.01 55 MILLER STREET PYRMONT NSW 2009
Telephone	61 2 95160722
Facsimile	(Not specified)
Email	Geisiane.Torres @eiaustralia.com.au
Project	**E26534 61 Marlborough St, Surry Hills**
Order Number	**E26534**
Samples	7

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE289786 R0**
Date Received	19 Sep 2025
Date Reported	29 Sep 2025

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	E. coli and Thermotolerant coliforms in Water (CFU)	1 item
	Enterococci in Water	1 item
Duplicate	VOCs in Water	1 item
	Volatile Petroleum Hydrocarbons in Water	1 item

SAMPLE SUMMARY

Sample counts by matrix	7 Water	Type of documentation received	COC
Date documentation received	19/9/2025	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	14.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE289786 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Alkalinity

Method: ME-(AU)-[ENV]AN135

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361885	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	22 Sep 2025

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361752	18 Sep 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361815	18 Sep 2025	19 Sep 2025	16 Oct 2025	22 Sep 2025	16 Oct 2025	25 Sep 2025

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361753	18 Sep 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025
GW_BH102M_1	SE289786.002	LB361753	18 Sep 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025
GW_BH103M_1	SE289786.003	LB361753	18 Sep 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025

Dissolved Oxygen by Membrane Electrode

Method: ME-(AU)-[ENV]AN176

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361754	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025

E. coli and Thermotolerant coliforms in Water (CFU)

Method: ME-(AU)-[ENV]AN703

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361838	18 Sep 2025	19 Sep 2025	19 Sep 2025	22 Sep 2025†	25 Sep 2025	22 Sep 2025

Enterococci in Water

Method: ME-(AU)-[ENV]AN705

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361838	18 Sep 2025	19 Sep 2025	19 Sep 2025	22 Sep 2025†	25 Sep 2025	22 Sep 2025

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361752	18 Sep 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025	16 Oct 2025	19 Sep 2025

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361817	18 Sep 2025	19 Sep 2025	25 Sep 2025	22 Sep 2025	25 Sep 2025	23 Sep 2025

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH102M_1	SE289786.002	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH103M_1	SE289786.003	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QD1	SE289786.004	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QR1	SE289786.005	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361802	18 Sep 2025	19 Sep 2025	16 Oct 2025	26 Sep 2025	16 Oct 2025	26 Sep 2025
GW_BH102M_1	SE289786.002	LB361802	18 Sep 2025	19 Sep 2025	16 Oct 2025	26 Sep 2025	16 Oct 2025	26 Sep 2025
GW_BH103M_1	SE289786.003	LB361802	18 Sep 2025	19 Sep 2025	16 Oct 2025	26 Sep 2025	16 Oct 2025	26 Sep 2025
GW_BH100_QD1	SE289786.004	LB361802	18 Sep 2025	19 Sep 2025	16 Oct 2025	26 Sep 2025	16 Oct 2025	26 Sep 2025
GW_BH100_QR1	SE289786.005	LB361802	18 Sep 2025	19 Sep 2025	16 Oct 2025	26 Sep 2025	16 Oct 2025	26 Sep 2025

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB362206	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	24 Sep 2025
GW_BH102M_1	SE289786.002	LB362206	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	24 Sep 2025
GW_BH103M_1	SE289786.003	LB362206	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	24 Sep 2025

HOLDING TIME SUMMARY

SE289786 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361752	18 Sep 2025	19 Sep 2025	22 Sep 2025	19 Sep 2025	22 Sep 2025	19 Sep 2025

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH102M_1	SE289786.002	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH103M_1	SE289786.003	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QD1	SE289786.004	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QR1	SE289786.005	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH102M_1	SE289786.002	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH103M_1	SE289786.003	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH100_QD1	SE289786.004	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH100_QR1	SE289786.005	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH102M_1	SE289786.002	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH103M_1	SE289786.003	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH100_QD1	SE289786.004	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025
GW_BH100_QR1	SE289786.005	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	25 Sep 2025

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH102M_1	SE289786.002	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH103M_1	SE289786.003	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QD1	SE289786.004	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QR1	SE289786.005	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361842	18 Sep 2025	19 Sep 2025	16 Oct 2025	22 Sep 2025	20 Oct 2025	23 Sep 2025

pH in water

Method: ME-(AU)-[ENV]AN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361753	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025
GW_BH102M_1	SE289786.002	LB361753	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025
GW_BH103M_1	SE289786.003	LB361753	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025

Redox Potential (Eh) in water

Method: ME-(AU)-[ENV]AN240

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361755	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025

TKN Kjeldahl Digestion by Discrete Analyser

Method: ME-(AU)-[ENV]AN281/292

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB362010	18 Sep 2025	19 Sep 2025	16 Oct 2025	23 Sep 2025	16 Oct 2025	25 Sep 2025

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB361877	18 Sep 2025	19 Sep 2025	25 Sep 2025	22 Sep 2025	29 Sep 2025	22 Sep 2025

Total Dissolved Solids (TDS) in water

Method: ME-(AU)-[ENV]AN113

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB362093	18 Sep 2025	19 Sep 2025	25 Sep 2025	23 Sep 2025	25 Sep 2025	24 Sep 2025
GW_BH102M_1	SE289786.002	LB362093	18 Sep 2025	19 Sep 2025	25 Sep 2025	23 Sep 2025	25 Sep 2025	24 Sep 2025

HOLDING TIME SUMMARY

SE289786 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Total Dissolved Solids (TDS) in water (continued)

Method: ME-(AU)-[ENV]AN113

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB362093	18 Sep 2025	19 Sep 2025	25 Sep 2025	23 Sep 2025	25 Sep 2025	24 Sep 2025

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB362035	18 Sep 2025	19 Sep 2025	02 Oct 2025	23 Sep 2025	02 Oct 2025	24 Sep 2025

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH103M_1	SE289786.003	LB362010	18 Sep 2025	19 Sep 2025	16 Oct 2025	23 Sep 2025	16 Oct 2025	24 Sep 2025

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB362209	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	25 Sep 2025
GW_BH102M_1	SE289786.002	LB362209	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	25 Sep 2025
GW_BH103M_1	SE289786.003	LB362209	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	25 Sep 2025
GW_BH100_QD1	SE289786.004	LB362209	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	25 Sep 2025
GW_BH100_QR1	SE289786.005	LB362209	18 Sep 2025	19 Sep 2025	17 Mar 2026	24 Sep 2025	17 Mar 2026	25 Sep 2025

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH102M_1	SE289786.002	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH103M_1	SE289786.003	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QD1	SE289786.004	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025
GW_BH100_QR1	SE289786.005	LB361771	18 Sep 2025	19 Sep 2025	25 Sep 2025	21 Sep 2025	31 Oct 2025	26 Sep 2025

Turbidity

Method: ME-(AU)-[ENV]AN119

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361734	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025
GW_BH102M_1	SE289786.002	LB361734	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025
GW_BH103M_1	SE289786.003	LB361734	18 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025	19 Sep 2025

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH102M_1	SE289786.002	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH103M_1	SE289786.003	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH100_QD1	SE289786.004	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH100_QR1	SE289786.005	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
Trip Blank	SE289786.006	LB361916	19 Sep 2025	19 Sep 2025	03 Oct 2025	22 Sep 2025	03 Oct 2025	24 Sep 2025
Trip Spike	SE289786.007	LB361916	19 Sep 2025	19 Sep 2025	03 Oct 2025	22 Sep 2025	03 Oct 2025	24 Sep 2025

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW_BH101M_1	SE289786.001	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH102M_1	SE289786.002	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH103M_1	SE289786.003	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	25 Sep 2025
GW_BH100_QD1	SE289786.004	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
GW_BH100_QR1	SE289786.005	LB361916	18 Sep 2025	19 Sep 2025	02 Oct 2025	22 Sep 2025	02 Oct 2025	24 Sep 2025
Trip Blank	SE289786.006	LB361916	19 Sep 2025	19 Sep 2025	03 Oct 2025	22 Sep 2025	03 Oct 2025	25 Sep 2025
Trip Spike	SE289786.007	LB361916	19 Sep 2025	19 Sep 2025	03 Oct 2025	22 Sep 2025	03 Oct 2025	25 Sep 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	104
2-fluorobiphenyl (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	92
d14-p-terphenyl (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	114
d5-nitrobenzene (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	82
d5-phenol (Surrogate)	GW_BH103M_1	SE289786.003	%	20 - 130%	85

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	72

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	91
d14-p-terphenyl (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	110

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	98
	GW_BH102M_1	SE289786.002	%	40 - 130%	103
	GW_BH103M_1	SE289786.003	%	40 - 130%	91
d14-p-terphenyl (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	104
	GW_BH102M_1	SE289786.002	%	40 - 130%	109
	GW_BH103M_1	SE289786.003	%	40 - 130%	110
d5-nitrobenzene (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	100
	GW_BH102M_1	SE289786.002	%	40 - 130%	117
	GW_BH103M_1	SE289786.003	%	40 - 130%	94

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	GW_BH103M_1	SE289786.003	%	40 - 130%	72

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	94
	GW_BH102M_1	SE289786.002	%	40 - 130%	93
	GW_BH103M_1	SE289786.003	%	40 - 130%	93
	GW_BH100_QD1	SE289786.004	%	40 - 130%	93
	GW_BH100_QR1	SE289786.005	%	40 - 130%	93
	Trip Blank	SE289786.006	%	40 - 130%	92
	Trip Spike	SE289786.007	%	40 - 130%	85
d4-1,2-dichloroethane (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	74
	GW_BH102M_1	SE289786.002	%	40 - 130%	76
	GW_BH103M_1	SE289786.003	%	40 - 130%	75
	GW_BH100_QD1	SE289786.004	%	40 - 130%	76
	GW_BH100_QR1	SE289786.005	%	40 - 130%	74
	Trip Blank	SE289786.006	%	40 - 130%	79
	Trip Spike	SE289786.007	%	40 - 130%	83
d8-toluene (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	83
	GW_BH102M_1	SE289786.002	%	40 - 130%	84
	GW_BH103M_1	SE289786.003	%	40 - 130%	83
	GW_BH100_QD1	SE289786.004	%	40 - 130%	83
	GW_BH100_QR1	SE289786.005	%	40 - 130%	82
	Trip Blank	SE289786.006	%	40 - 130%	82
	Trip Spike	SE289786.007	%	40 - 130%	93

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	94
	GW_BH102M_1	SE289786.002	%	40 - 130%	93
	GW_BH103M_1	SE289786.003	%	40 - 130%	93
	GW_BH100_QD1	SE289786.004	%	40 - 130%	93

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Water (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	GW_BH100_QR1	SE289786.005	%	40 - 130%	93
d4-1,2-dichloroethane (Surrogate)	GW_BH101M_1	SE289786.001	%	60 - 130%	74
	GW_BH102M_1	SE289786.002	%	60 - 130%	76
	GW_BH103M_1	SE289786.003	%	60 - 130%	75
	GW_BH100_QD1	SE289786.004	%	60 - 130%	76
	GW_BH100_QR1	SE289786.005	%	60 - 130%	74
d8-toluene (Surrogate)	GW_BH101M_1	SE289786.001	%	40 - 130%	83
	GW_BH102M_1	SE289786.002	%	40 - 130%	84
	GW_BH103M_1	SE289786.003	%	40 - 130%	83
	GW_BH100_QD1	SE289786.004	%	40 - 130%	83
	GW_BH100_QR1	SE289786.005	%	40 - 130%	82

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Alkalinity

Method: ME-(AU)-[ENV]AN135

Sample Number	Parameter	Units	LOR	Result
LB361885.001	Bicarbonate Alkalinity as CaCO3	mg/L	5	<5
	Carbonate Alkalinity as CaCO3	mg/L	5	<5
	Total Alkalinity as CaCO3	mg/L	5	<5

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Sample Number	Parameter	Units	LOR	Result
LB361752.001	Ammonia Nitrogen, NH_3 as N	mg/L	0.01	<0.01

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result
LB361815.001	Fluoride	mg/L	0.1	<0.10
	Chloride	mg/L	0.05	<0.05
	Bromide	mg/L	0.05	<0.05
	Nitrate Nitrogen, NO3-N	mg/L	0.005	<0.005
	Sulfate, SO4	mg/L	1	<1.0

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Number	Parameter	Units	LOR	Result
LB361753.001	Conductivity @ 25 C	µS/cm	2	<2

Dissolved Oxygen by Membrane Electrode

Method: ME-(AU)-[ENV]AN176

Sample Number	Parameter	Units	LOR	Result
LB361754.001	Dissolved Oxygen**	mg/L	0.5	<0.5

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Number	Parameter	Units	LOR	Result
LB361752.001	Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Number	Parameter	Units	LOR	Result
LB361817.001	Total Organic Carbon as NPOC	mg/L	0.2	<0.2

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB361771.001	01-PAHs	Acenaphthene	µg/L	0.1	<0.1
		Acenaphthylene	µg/L	0.1	<0.1
		Anthracene	µg/L	0.1	<0.1
		Benzo(a)anthracene	µg/L	0.1	<0.1
		Benzo(b&j&k)fluoranthene	µg/L	0.2	<0.2
		Benzo(a)pyrene	µg/L	0.1	<0.1
		Chrysene	µg/L	0.1	<0.1
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1
		Fluoranthene	µg/L	0.1	<0.1
		Fluorene	µg/L	0.1	<0.1
		1-methylnaphthalene	µg/L	0.1	<0.1
		2-methylnaphthalene	µg/L	0.1	<0.1
		Naphthalene	µg/L	0.1	<0.1
		Phenanthrene	µg/L	0.1	<0.1
		Pyrene	µg/L	0.1	<0.1
		2-acetylaminofluorene	µg/L	0.5	<0.5
		7,12-dimethyl-benz(a)anthracene	µg/L	0.5	<0.5
		3-methylcholanthrene	µg/L	0.5	<0.5
	02-OCs	Aldrin	µg/L	0.1	<0.1
		Alpha-BHC	µg/L	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Full 8270 SVOC in Water (continued) — **Method: ME-(AU)-[ENV]AN420**

Sample Number		Parameter	Units	LOR	Result
LB361771.001	02-OCs	Beta-BHC	µg/L	0.1	<0.1
		Delta-BHC	µg/L	0.1	<0.1
		Gamma-BHC (Lindane)	µg/L	0.1	<0.1
		p,p-DDD	µg/L	0.1	<0.1
		p,p-DDE	µg/L	0.1	<0.1
		p,p-DDT	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Alpha-endosulfan	µg/L	0.1	<0.1
		Beta-endosulfan	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
		Alpha-chlordane	µg/L	0.1	<0.1
		Gamma-chlordane	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
	03-OPs	Azinphos-methyl (Guthion)	µg/L	0.2	<0.2
		Bromophos ethyl	µg/L	0.2	<0.2
		Carbophenothion	µg/L	0.5	<0.5
		Chlorfenvinphos-cis	µg/L	5	<5
		Chlorfenvinphos-trans	µg/L	0.5	<0.5
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Chlorpyrifos-methyl	µg/L	0.5	<0.5
		Co-Ral (Coumaphos)	µg/L	0.5	<0.5
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Dichlorvos	µg/L	0.5	<0.5
		Demeton-S-methyl	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Disulfoton (Di-syston)	µg/L	0.5	<0.5
		EPN*	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Ethoprophos (ethoprop or prophos)	µg/L	0.5	<0.5
		Famphur (Famophos)	µg/L	0.5	<0.5
		Fenamiphos (Phenamiphos)	µg/L	0.5	<0.5
		Fenchlorophos (Ronnel)	µg/L	0.5	<0.5
		Fenitrothion	µg/L	0.2	<0.2
		Fenthion	µg/L	0.5	<0.5
		Malathion (Maldison)	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5
		Mevinphos-cis/trans	µg/L	1	<1
		o,o,o-triethyl phosphorothioate	µg/L	0.5	<0.5
		Parathion ethyl (Parathion)	µg/L	0.2	<0.2
		Parathion methyl	µg/L	0.5	<0.5
		Phorate	µg/L	0.5	<0.5
		Pirimiphos-ethyl	µg/L	0.5	<0.5
		Pirimiphos-methyl	µg/L	0.5	<0.5
		Profenofos	µg/L	0.5	<0.5
		Prothiophos (Tokuthion)*	µg/L	0.5	<0.5
		Sulfotepp	µg/L	0.5	<0.5
	04-PCB UPAC(7) Congeners	PCB Congener C28	µg/L	0.1	<0.1
		PCB Congener C52	µg/L	0.1	<0.1
		PCB Congener C101	µg/L	0.1	<0.1
		PCB Congener C118	µg/L	0.1	<0.1
		PCB Congener C138	µg/L	0.1	<0.1
		PCB Congener C153	µg/L	0.1	<0.1
		PCB Congener C180	µg/L	0.1	<0.1
	05-SVCH (Cl Benzenes, Hydrocarbons & VOCs)	Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
		1,2-dichlorobenzene	µg/L	0.5	<0.5
		1,3-dichlorobenzene	µg/L	0.5	<0.5

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Full 8270 SVOC in Water (continued) — **Method: ME-(AU)-[ENV]AN420**

Sample Number		Parameter	Units	LOR	Result
LB361771.001	05-SVCH (Cl Benzenes, Hydrocarbons & VOCs)	1,4-dichlorobenzene	µg/L	0.5	<0.5
		Hexachlorobutadiene	µg/L	0.5	<0.5
		Hexachlorocyclopentadiene	µg/L	2	<2
		Hexachloroethane	µg/L	0.5	<0.5
		Hexachloroproprene	µg/L	0.5	<0.5
		Pentachlorobenzene	µg/L	0.5	<0.5
		Pentachloroethane	µg/L	0.5	<0.5
		1,2,3,5 and 1,2,4,5 -tetrachlorobenzene	µg/L	1	<1
		1,2,3,4-tetrachlorobenzene	µg/L	0.5	<0.5
		1/2-Chloronaphthalene	µg/L	1	<1
		1,2,4-trichlorobenzene	µg/L	0.5	<0.5
	06-Phthalates	Bis(2-ethylhexyl)phthalate	µg/L	10	<10
		Bis(2-ethylhexyl)adipate	µg/L	1	<1
		Butyl benzyl phthalate	µg/L	1	<1
		Di-n-butyl phthalate	µg/L	10	<10
		Diethyl phthalate	µg/L	5	<5
		Dimethyl phthalate	µg/L	1	<1
		Di-n-octyl phthalate	µg/L	1	<1
	07-Carbamates	Carbofuran	µg/L	0.5	<0.5
		Carbaryl	µg/L	0.5	<0.5
	08-Herbicides (normal)	Trifluralin	µg/L	0.5	<0.5
	09-Nitrosamines	N-nitroso-di-n-butylamine (NDBA)	µg/L	1	<1
		N-nitroso-diethylamine (NDEA)	µg/L	1	<1
		N-nitroso-di-n-propylamine (NDPA)	µg/L	1	<1
		N-nitroso-morpholine (NMOR)	µg/L	1	<1
		N-nitroso-piperidine (NPIP)	µg/L	1	<1
		N-nitroso-pyrrolidine (NPYR)	µg/L	1	<1
		4-amino biphenyl	µg/L	1	<1
	10-Nitroaromatics and Ketones	Acetophenone	µg/L	1	<1
		1,3-dinitrobenzene	µg/L	1	<1
		2,4-dinitrotoluene	µg/L	1	<1
		2,6-dinitrotoluene	µg/L	1	<1
		Isophorone	µg/L	1	<1
		Nitrobenzene	µg/L	1	<1
		p-(dimethylamino) azobenzene	µg/L	1	<1
		Phenacetin	µg/L	1	<1
		Pentachloronitrobenzene (quintozene)	µg/L	1	<1
	11-Anilines and Amines	Aniline	µg/L	5	<5
		4-chloroaniline	µg/L	1	<1
		2-nitroaniline	µg/L	1	<1
		3-nitroaniline	µg/L	1	<1
		4-nitroaniline	µg/L	1	<1
		Diphenylamine	µg/L	1	<1
		o-toluidine	µg/L	1	<1
		5-nitro-o-toluidine	µg/L	1	<1
		1-naphthylamine	µg/L	2	<2
		2-naphthylamine	µg/L	2	<2
	12-Haloethers	Bis(2-chloroethoxy) methane	µg/L	1	<1
		Bis(2-chloroethyl) ether	µg/L	1	<1
		Bis(2-chloroisopropyl) ether	µg/L	1	<1
		4-chlorophenyl phenyl ether	µg/L	1	<1
		4-bromophenyl phenyl ether	µg/L	1	<1
	13-Other SVOCs	Methyl methanesulfonate	µg/L	1	<1
		Ethyl methanesulfonate	µg/L	1	<1
		Dibenzofuran	µg/L	1	<1
		Benzyl alcohol	µg/L	1	<1
		Safrole	µg/L	1	<1
		Isosafrole Isomer 1	µg/L	1	<1
		Isosafrole Isomer 2	µg/L	1	<1
		1,4-naphthoquinone	µg/L	1	<1
		Thionazin	µg/L	1	<1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Full 8270 SVOC in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB361771.001	14-Speciated Routine	3/4-methyl phenol (m/p-cresol)	µg/L	1	<1
	Phenols	2-methyl phenol (o-cresol)	µg/L	0.5	<0.5
		2,6-dichlorophenol	µg/L	0.5	<0.5
		2,4,5-trichlorophenol	µg/L	0.5	<0.5
		4-chloro-3-methylphenol	µg/L	2	<2
		2-chlorophenol	µg/L	0.5	<0.5
		2,4-dichlorophenol	µg/L	0.5	<0.5
		2,4-dimethylphenol	µg/L	0.5	<0.5
		2-nitrophenol	µg/L	0.5	<0.5
		Phenol	µg/L	0.5	<0.5
		2,4,6-trichlorophenol	µg/L	0.5	<0.5
		Pentachlorophenol	µg/L	0.5	<0.5
		4-nitrophenol	µg/L	1	<1
	Surrogates	d5-phenol (Surrogate)	%	-	120
		d5-nitrobenzene (Surrogate)	%	-	122
		2-fluorobiphenyl (Surrogate)	%	-	128
		2,4,6-Tribromophenol (Surrogate)	%	-	125
		d14-p-terphenyl (Surrogate)	%	-	128

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB361802.001	Mercury, Hg	mg/L	0.0001	<0.0001

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Number	Parameter	Units	LOR	Result
LB362206.001	Potassium, K	mg/L	0.1	<0.1
	Silicon, Si*	mg/L	0.05	<0.05
	Sodium, Na	mg/L	0.5	<0.5

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Number	Parameter	Units	LOR	Result
LB361752.001	Nitrite Nitrogen, NO2 as N	mg/L	0.005	<0.005

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB361771.001		Alpha BHC	µg/L	0.1	<0.1
		Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
		Beta BHC	µg/L	0.1	<0.1
		Lindane (gamma BHC)	µg/L	0.1	<0.1
		Delta BHC	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Aldrin	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Gamma Chlordane	µg/L	0.1	<0.1
		Alpha Chlordane	µg/L	0.1	<0.1
		Alpha Endosulfan	µg/L	0.1	<0.1
		p,p'-DDE	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Beta Endosulfan	µg/L	0.1	<0.1
		p,p'-DDD	µg/L	0.1	<0.1
		Endrin aldehyde	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		p,p'-DDT	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	104

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OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB361771.001		Azinphos-methyl	µg/L	0.2	<0.2
		Bromophos Ethyl	µg/L	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Dichlorvos	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Fenitrothion	µg/L	0.2	<0.2
		Malathion	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5
		Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	83
		d14-p-terphenyl (Surrogate)	%	-	85

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB361771.001		Naphthalene	µg/L	0.1	<0.1
		2-methylnaphthalene	µg/L	0.1	<0.1
		1-methylnaphthalene	µg/L	0.1	<0.1
		Acenaphthylene	µg/L	0.1	<0.1
		Acenaphthene	µg/L	0.1	<0.1
		Fluorene	µg/L	0.1	<0.1
		Phenanthrene	µg/L	0.1	<0.1
		Anthracene	µg/L	0.1	<0.1
		Fluoranthene	µg/L	0.1	<0.1
		Pyrene	µg/L	0.1	<0.1
		Benzo(a)anthracene	µg/L	0.1	<0.1
		Chrysene	µg/L	0.1	<0.1
		Benzo(a)pyrene	µg/L	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1
		Benzo(ghi)perylene	µg/L	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	97
		2-fluorobiphenyl (Surrogate)	%	-	83
		d14-p-terphenyl (Surrogate)	%	-	85

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB361771.001	Arochlor 1016	µg/L	1	<1
	Arochlor 1221	µg/L	1	<1
	Arochlor 1232	µg/L	1	<1
	Arochlor 1242	µg/L	1	<1
	Arochlor 1248	µg/L	1	<1
	Arochlor 1254	µg/L	1	<1
	Arochlor 1260	µg/L	1	<1

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR	Result
LB361842.001	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05
	Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01
	Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01
	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01
	Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01
	Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01
	Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01
	Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01
	Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01
	Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples (continued)

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR	Result
LB361842.001	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01
	Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01
	Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01
	Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01
	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	µg/L	0.01	<0.01
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	<0.01
	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01
	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	µg/L	0.01	<0.01
	N-Methylperfluorooctanesulfonamidoacetic acid (N_MeFOSAA)	µg/L	0.05	<0.05
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	µg/L	0.05	<0.05
	2-(N-Methylperfluorooctane sulfonamido)-ethanol (N-MeFOSE)	µg/L	0.05	<0.05
	2-(N-Ethylperfluorooctane sulfonamido)-ethanol (N-EtFOSE)	µg/L	0.05	<0.05

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Sample Number	Parameter	Units	LOR	Result
LB361877.001	Total Suspended Solids Dried at 103-105°C	mg/L	5	<5

Total Dissolved Solids (TDS) in water

Method: ME-(AU)-[ENV]AN113

Sample Number	Parameter	Units	LOR	Result
LB362093.001	Total Dissolved Solids Dried at 175-185°C	mg/L	10	<10

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result
LB362035.001	Total Phenols	mg/L	0.05	<0.05

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Sample Number	Parameter	Units	LOR	Result
LB362010.001	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	<0.02

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB362209.001	Aluminium	µg/L	5	<5
	Antimony	µg/L	1	<1
	Arsenic	µg/L	1	<1
	Barium	µg/L	1	<1
	Beryllium	µg/L	1	<1
	Boron	µg/L	5	<5
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Cobalt	µg/L	1	<1
	Copper	µg/L	1	<1
	Iron	µg/L	5	<5
	Lead	µg/L	1	<1
	Manganese	µg/L	1	<1
	Molybdenum	µg/L	1	<1
	Nickel	µg/L	1	<1
	Selenium	µg/L	1	<1
	Silver	µg/L	1	<1
	Strontium	µg/L	1	<1
	Uranium	µg/L	1	<1
	Vanadium	µg/L	1	<1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Trace Metals (Dissolved) in Water by ICPMS (continued)

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB362209.001	Zinc	µg/L	5	<5
LB362209.025	Aluminium	µg/L	5	<5
	Antimony	µg/L	1	<1
	Arsenic	µg/L	1	<1
	Barium	µg/L	1	<1
	Beryllium	µg/L	1	<1
	Boron	µg/L	5	<5
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Cobalt	µg/L	1	<1
	Copper	µg/L	1	<1
	Iron	µg/L	5	<5
	Lead	µg/L	1	<1
	Manganese	µg/L	1	<1
	Molybdenum	µg/L	1	<1
	Nickel	µg/L	1	<1
	Selenium	µg/L	1	<1
	Silver	µg/L	1	<1
	Strontium	µg/L	1	<1
	Uranium	µg/L	1	<1
	Vanadium	µg/L	1	<1
	Zinc	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB361771.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

Turbidity

Method: ME-(AU)-[ENV]AN119

Sample Number	Parameter	Units	LOR	Result
LB361734.001	Turbidity	NTU	0.5	<0.5

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB361916.001	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5
		1,2-dichloropropane	µg/L	0.5	<0.5
		cis-1,3-dichloropropene	µg/L	0.5	<0.5
		trans-1,3-dichloropropene	µg/L	0.5	<0.5
		1,2-dibromoethane (EDB)	µg/L	0.5	<0.5
	Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5
		Chloromethane	µg/L	5	<5
		Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3
		Bromomethane	µg/L	10	<10
		Chloroethane	µg/L	5	<5
		Trichlorofluoromethane	µg/L	1	<1
		1,1-dichloroethene	µg/L	0.5	<0.5
		Iodomethane	µg/L	5	<5
		Dichloromethane (Methylene chloride)	µg/L	5	<5
		Allyl chloride	µg/L	2	<2
		trans-1,2-dichloroethene	µg/L	0.5	<0.5
		1,1-dichloroethane	µg/L	0.5	<0.5
		cis-1,2-dichloroethene	µg/L	0.5	<0.5
		Bromochloromethane	µg/L	0.5	<0.5
		1,2-dichloroethane	µg/L	0.5	<0.5
		1,1,1-trichloroethane	µg/L	0.5	<0.5
		1,1-dichloropropene	µg/L	0.5	<0.5
		Carbon tetrachloride	µg/L	0.5	<0.5
		Dibromomethane	µg/L	0.5	<0.5

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB361916.001	Halogenated Aliphatics	Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5
		1,1,2-trichloroethane	µg/L	0.5	<0.5
		1,3-dichloropropane	µg/L	0.5	<0.5
		Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5
		1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5
		1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5
		1,2,3-trichloropropane	µg/L	0.5	<0.5
		trans-1,4-dichloro-2-butene	µg/L	1	<1
		1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5
		Hexachlorobutadiene	µg/L	0.5	<0.5
	Halogenated Aromatics	Chlorobenzene	µg/L	0.5	<0.5
		Bromobenzene	µg/L	0.5	<0.5
		2-chlorotoluene	µg/L	0.5	<0.5
		4-chlorotoluene	µg/L	0.5	<0.5
		1,3-dichlorobenzene	µg/L	0.5	<0.5
		1,4-dichlorobenzene	µg/L	0.3	<0.3
		1,2-dichlorobenzene	µg/L	0.5	<0.5
		1,2,4-trichlorobenzene	µg/L	0.5	<0.5
		1,2,3-trichlorobenzene	µg/L	0.5	<0.5
	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		Styrene (Vinyl benzene)	µg/L	0.5	<0.5
		o-xylene	µg/L	0.5	<0.5
		Isopropylbenzene (Cumene)	µg/L	0.5	<0.5
		n-propylbenzene	µg/L	0.5	<0.5
		1,3,5-trimethylbenzene	µg/L	0.5	<0.5
		tert-butylbenzene	µg/L	0.5	<0.5
		1,2,4-trimethylbenzene	µg/L	0.5	<0.5
		sec-butylbenzene	µg/L	0.5	<0.5
		p-isopropyltoluene	µg/L	0.5	<0.5
		n-butylbenzene	µg/L	0.5	<0.5
	Nitrogenous Compounds	Acrylonitrile	µg/L	0.5	<0.5
	Oxygenated Compounds	Acetone (2-propanone)	µg/L	10	<10
		MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5
		Vinyl acetate*	µg/L	10	<10
		MEK (2-butanone)	µg/L	10	<10
		MIBK (4-methyl-2-pentanone)	µg/L	5	<5
		2-hexanone (MBK)	µg/L	5	<5
	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Sulphonated	Carbon disulfide	µg/L	2	<2
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	73
		d8-toluene (Surrogate)	%	-	80
		Bromofluorobenzene (Surrogate)	%	-	89
	Trihalomethanes	Chloroform (THM)	µg/L	0.5	<0.5
		Bromodichloromethane (THM)	µg/L	0.5	<0.5
		Dibromochloromethane (THM)	µg/L	0.5	<0.5
		Bromoform (THM)	µg/L	0.5	<0.5

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB361916.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	73
		d8-toluene (Surrogate)	%	-	80
		Bromofluorobenzene (Surrogate)	%	-	89

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Alkalinity

Method: ME-(AU)-[ENV]AN135

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289835.001	LB361885.006	Bicarbonate Alkalinity as CaCO3	mg/L	5	36	38	29	4
		Carbonate Alkalinity as CaCO3	mg/L	5	<5	<5	200	0
		Total Alkalinity as CaCO3	mg/L	5	36	38	29	4

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361752.006	Ammonia Nitrogen, NH_3 as N	mg/L	0.01	<0.01	<0.01	177	0

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289675.001	LB361815.024	Sulfate, SO4	mg/L	1	27	26	19	4
SE289780.002	LB361815.014	Chloride	mg/L	0.05	13000	13000	15	1

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361753.007	Conductivity @ 25 C	µS/cm	2	420	420	15	0

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361752.006	Filterable Reactive Phosphorus as P	mg/L	0.005	0.13	0.13	19	1

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289780.007	LB361817.015	Total Organic Carbon as NPOC	mg/L	0.2	9.2	11	17	15
SE289786.003	LB361817.022	Total Organic Carbon as NPOC	mg/L	0.2	5.9	5.8	18	2

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.005	LB361802.023	Mercury, Hg	µg/L	0.0001	<0.0001	<0.0001	158	0

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361752.006	Nitrite Nitrogen, NO2 as N	mg/L	0.005	<0.005	<0.005	200	0

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.002	LB361771.023	Naphthalene	µg/L	0.1	0.3	0.3	62	16
		2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
		Acenaphthylene	µg/L	0.1	<0.1	<0.1	200	0
		Acenaphthene	µg/L	0.1	<0.1	<0.1	200	0
		Fluorene	µg/L	0.1	<0.1	<0.1	200	0
		Phenanthrene	µg/L	0.1	<0.1	<0.1	200	0
		Anthracene	µg/L	0.1	<0.1	<0.1	200	0
		Fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
		Pyrene	µg/L	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	200	0
		Chrysene	µg/L	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.002	LB361771.023		Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.6	0.50	30	16
			2-fluorobiphenyl (Surrogate)	µg/L	-	0.5	0.44	30	16
			d14-p-terphenyl (Surrogate)	µg/L	-	0.5	0.46	30	17

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289748.001	LB361842.024	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	200	0
		Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.01	0.01	200	10
		Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.01	0.01	200	5
		Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.01	0.01	200	4
		Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Methylperfluoroctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Ethylperfluoroctane sulfonamide (N-EtFOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Methylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05	<0.05	200	0
		N-Ethylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05	<0.05	200	0
		2-(N-Methylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05	<0.05	200	0
		2-(N-Ethylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05	<0.05	200	0
		Sum of PFOS and PFHxS	µg/L	0.01	<0.01	<0.01	200	0
		Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFAS A	µg/L	0.01	0.02	0.02	200	5
		Sum of PFAS B	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFAS C	µg/L	0.01	0.01	0.01	200	10
		Sum of Positive PFAS	µg/L	0.01	0.04	0.04	200	6
SE289773.001	LB361842.023	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	200	0
		Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.01	<0.01	200	5
		Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples (continued)

Method: ME-(AU)-[ENV]AN404

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289773.001	LB361842.023	Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01	<0.01	200	0
		1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2	µg/L	0.01	<0.01	<0.01	200	0
		Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Methylperfluoroctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Ethylperfluoroctane sulfonamide (N-EtFOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Methylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05	<0.05	200	0
		N-Ethylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05	<0.05	200	0
		2-(N-Methylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05	<0.05	200	0
		2-(N-Ethylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05	<0.05	200	0
		Sum of PFOS and PFHxS	µg/L	0.01	<0.01	<0.01	200	0
		Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFAS A	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFAS B	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFAS C	µg/L	0.01	0.01	<0.01	200	5
		Sum of Positive PFAS	µg/L	0.01	0.01	<0.01	200	5

pH in water

Method: ME-(AU)-[ENV]AN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361753.007	pH**	pH Units	-	7.5	7.5	16	0

Redox Potential (Eh) in water

Method: ME-(AU)-[ENV]AN240

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361755.003	Eh of Sample Relative to Standard H+ Electrode***	mV	-500	388	381	15	2

TKN Kjeldahl Digestion by Discrete Analyser

Method: ME-(AU)-[ENV]AN281/292

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289662.001	LB362010.027	Total Kjeldahl Nitrogen	mg/L	0.05	3.1	2.9	17	7
SE289765.002	LB362010.014	Total Kjeldahl Nitrogen	mg/L	0.05	1.7	1.7	18	1

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361877.011	Total Suspended Solids Dried at 103-105°C	mg/L	5	270	260	17	1

Total Dissolved Solids (TDS) in water

Method: ME-(AU)-[ENV]AN113

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289800.001	LB362093.016	Total Dissolved Solids Dried at 175-185°C	mg/L	10	2100	2000	15	3
SE289875.002	LB362093.013	Total Dissolved Solids Dried at 175-185°C	mg/L	10	3400	3400	15	1

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289875.003	LB362035.013	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Original	Duplicate	Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Total Phosphorus by Kjeldahl Digestion DA in Water (continued) — Method: ME-(AU)-[ENV]AN279/AN293

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289662.001	LB362010.027	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.5	1.4	16	4
SE289765.002	LB362010.014	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	0.04	0.05	62	26

Trace Metals (Dissolved) in Water by ICPMS — Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289121A.016	LB362209.035	Arsenic	µg/L	1	<1	<1	200	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	<1	<1	200	0
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	200	0
SE289780.002	LB362209.014	Aluminium	µg/L	5	<5	<5	200	0
		Arsenic	µg/L	1	<1	<1	143	0
		Barium	µg/L	1	32	32	18	1
		Cadmium	µg/L	0.1	0.1	0.1	91	17
		Cobalt	µg/L	1	<1	<1	157	0
		Copper	µg/L	1	<1	<1	200	0
		Lead	µg/L	1	8	8	28	0
		Manganese	µg/L	1	23	25	19	5
		Nickel	µg/L	1	3	3	51	4
SE289786.003	LB362209.028	Aluminium	µg/L	5	27	24	35	13
		Antimony	µg/L	1	<1	<1	200	0
		Arsenic	µg/L	1	<1	<1	200	0
		Barium	µg/L	1	110	110	16	1
		Beryllium	µg/L	1	<1	<1	200	0
		Boron	µg/L	5	490	510	16	4
		Cadmium	µg/L	0.1	<0.1	0.1	108	17
		Chromium	µg/L	1	<1	<1	200	0
		Cobalt	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	1	<1	113	7
		Iron	µg/L	5	9	7	77	29
		Lead	µg/L	1	<1	<1	162	0
		Manganese	µg/L	1	190	190	16	2
		Molybdenum	µg/L	1	6	5	33	2
		Nickel	µg/L	1	<1	<1	125	0
		Selenium	µg/L	1	<1	<1	200	0
		Silver	µg/L	1	<1	<1	200	0
		Strontium	µg/L	1	110	110	16	2
		Uranium	µg/L	1	<1	<1	200	0
		Vanadium	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	134	0

TRH (Total Recoverable Hydrocarbons) in Water — Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.002	LB361771.023		TRH C10-C14	µg/L	50	270	260	49	4
			TRH C15-C28	µg/L	200	330	350	89	5
			TRH C29-C36	µg/L	200	<200	<200	200	0
			TRH C37-C40	µg/L	200	<200	<200	200	0
			TRH C10-C40	µg/L	320	690	700	76	2
		TRH F Bands	TRH >C10-C16	µg/L	60	290	290	51	1
			TRH >C10-C16 - Naphthalene (F2)	µg/L	60	290	290	51	1
			TRH >C16-C34 (F3)	µg/L	500	<500	<500	194	0
			TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

Turbidity — Method: ME-(AU)-[ENV]AN119

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289773.002	LB361734.007	Turbidity	NTU	0.5	1.6	1.5	48	9

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.001	LB361916.023	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	<5	200	0
		Aliphatics	Chloromethane	µg/L	5	<5	<5	200	0
			Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	<0.3	200	0
			Bromomethane	µg/L	10	<10	<10	200	0
			Chloroethane	µg/L	5	<5	<5	200	0
			Trichlorofluoromethane	µg/L	1	<1	<1	200	0
			1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Iodomethane	µg/L	5	<5	<5	200	0
			Dichloromethane (Methylene chloride)	µg/L	5	<5	<5	200	0
			Allyl chloride	µg/L	2	<2	<2	200	0
			trans-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Bromochloromethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			Carbon tetrachloride	µg/L	0.5	<0.5	<0.5	200	0
			Dibromomethane	µg/L	0.5	<0.5	<0.5	200	0
			Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2,3-trichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,4-dichloro-2-butene	µg/L	1	<1	<1	200	0
			1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	<0.5	200	0
			Hexachlorobutadiene	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated	Chlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatics	Bromobenzene	µg/L	0.5	<0.5	<0.5	200	0
			2-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0
			4-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,4-dichlorobenzene	µg/L	0.3	<0.3	<0.3	200	0
			1,2-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,4-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,3-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
		Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	1.5	1.0	71	39
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			Styrene (Vinyl benzene)	µg/L	0.5	<0.5	<0.5	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
			Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	<0.5	200	0
			n-propylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,3,5-trimethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			tert-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,4-trimethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			sec-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			p-isopropyltoluene	µg/L	0.5	<0.5	<0.5	200	0
			n-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
		Nitrogenous	Acrylonitrile	µg/L	0.5	<0.5	<0.5	200	0
		Compounds	2-nitropropane	µg/L	100	<100	<100	200	0
		Oxygenated	Acetone (2-propanone)	µg/L	10	<10	<10	200	0
		Compounds	MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5	<0.5	200	0

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RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water (continued) — **Method: ME-(AU)-[ENV]AN433**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.001	LB361916.023	Oxygenated Compounds	Vinyl acetate*	µg/L	10	<10	<10	200	0
			MEK (2-butanone)	µg/L	10	<10	<10	200	0
			MIBK (4-methyl-2-pentanone)	µg/L	5	<5	<5	200	0
			2-hexanone (MBK)	µg/L	5	<5	<5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Sulphonated	Carbon disulfide	µg/L	2	<2	<2	153	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.4	7.4	30	0
			d8-toluene (Surrogate)	µg/L	-	8.3	5.9	30	33 ①
			Bromofluorobenzene (Surrogate)	µg/L	-	9.4	9.3	30	1
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
			Total VOC	µg/L	10	<10	<10	200	0
		Trihalomethanes	Chloroform (THM)	µg/L	0.5	0.6	0.7	103	13
			Bromodichloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0
			Dibromochloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0
			Bromoform (THM)	µg/L	0.5	<0.5	<0.5	200	0
SE289786.003	LB361916.024	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,3-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	<5	200	0
			Chloromethane	µg/L	5	<5	<5	200	0
			Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	<0.3	200	0
			Bromomethane	µg/L	10	<10	<10	200	0
			Chloroethane	µg/L	5	<5	<5	200	0
			Trichlorofluoromethane	µg/L	1	<1	<1	200	0
			1,1-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Iodomethane	µg/L	5	<5	<5	200	0
			Dichloromethane (Methylene chloride)	µg/L	5	<5	<5	200	0
			Allyl chloride	µg/L	2	<2	<2	200	0
			trans-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			cis-1,2-dichloroethene	µg/L	0.5	<0.5	<0.5	200	0
			Bromochloromethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2-dichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1-dichloropropene	µg/L	0.5	<0.5	<0.5	200	0
			Carbon tetrachloride	µg/L	0.5	<0.5	<0.5	200	0
			Dibromomethane	µg/L	0.5	<0.5	<0.5	200	0
			Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2-trichloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	<0.5	200	0
			1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	<0.5	200	0
			1,2,3-trichloropropane	µg/L	0.5	<0.5	<0.5	200	0
			trans-1,4-dichloro-2-butene	µg/L	1	<1	<1	200	0
			1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	<0.5	200	0
			Hexachlorobutadiene	µg/L	0.5	<0.5	<0.5	200	0
		Halogenated Aromatics	Chlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			Bromobenzene	µg/L	0.5	<0.5	<0.5	200	0
			2-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0
			4-chlorotoluene	µg/L	0.5	<0.5	<0.5	200	0
			1,3-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,4-dichlorobenzene	µg/L	0.3	<0.3	<0.3	200	0
			1,2-dichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,4-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,3-trichlorobenzene	µg/L	0.5	<0.5	<0.5	200	0
		Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
			Toluene	µg/L	0.5	1.0	0.9	83	13
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.003	LB361916.024	Monocyclic	m/p-xylene	µg/L	1	<1	<1	200	0
		Aromatic	Styrene (Vinyl benzene)	µg/L	0.5	<0.5	<0.5	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
			Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	<0.5	200	0
			n-propylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,3,5-trimethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			tert-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			1,2,4-trimethylbenzene	µg/L	0.5	0.5	<0.5	192	2
			sec-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			p-isopropyltoluene	µg/L	0.5	<0.5	<0.5	200	0
			n-butylbenzene	µg/L	0.5	<0.5	<0.5	200	0
		Nitrogenous	Acrylonitrile	µg/L	0.5	<0.5	<0.5	200	0
		Compounds	2-nitropropane	µg/L	100	<100	<100	200	0
		Oxygenated	Acetone (2-propanone)	µg/L	10	<10	<10	200	0
		Compounds	MtBE (Methyl-tert-butyl ether)	µg/L	0.5	<0.5	<0.5	200	0
			Vinyl acetate*	µg/L	10	<10	<10	200	0
			MEK (2-butanone)	µg/L	10	<10	<10	200	0
			MIBK (4-methyl-2-pentanone)	µg/L	5	<5	<5	200	0
			2-hexanone (MBK)	µg/L	5	<5	<5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Sulphonated	Carbon disulfide	µg/L	2	3	4	85	18
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.5	7.2	30	4
			d8-toluene (Surrogate)	µg/L	-	8.3	8.2	30	0
			Bromofluorobenzene (Surrogate)	µg/L	-	9.3	9.4	30	1
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
			Total VOC	µg/L	10	<10	10	131	4
		Trihalomethan	Chloroform (THM)	µg/L	0.5	3.9	5.0	41	26
		es	Bromodichloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0
			Dibromochloromethane (THM)	µg/L	0.5	<0.5	<0.5	200	0
			Bromoform (THM)	µg/L	0.5	<0.5	<0.5	200	0

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE289786.001	LB361916.023		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.4	7.4	30	0
			d8-toluene (Surrogate)	µg/L	-	8.3	5.9	30	33 ①
			Bromofluorobenzene (Surrogate)	µg/L	-	9.4	9.3	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0
SE289786.003	LB361916.024		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.5	7.2	30	4
			d8-toluene (Surrogate)	µg/L	-	8.3	8.2	30	0
			Bromofluorobenzene (Surrogate)	µg/L	-	9.3	9.4	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Ammonia Nitrogen by Discrete Analyser

Method: ME-(AU)-[ENV]AN291

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361752.002	Ammonia Nitrogen, NH_3 as N	mg/L	0.01	2.5	2.5	80 - 120	101

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361815.002	Fluoride	mg/L	0.1	2.0	2	80 - 120	100
	Chloride	mg/L	0.05	18	20	80 - 120	92
	Bromide	mg/L	0.05	2.0	2	80 - 120	99
	Nitrate Nitrogen, NO3-N	mg/L	0.005	2.0	2	80 - 120	98
	Sulfate, SO4	mg/L	1	18	20	80 - 120	91

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361753.002	Conductivity @ 25 C	µS/cm	2	990	1015	85 - 115	98

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361752.002	Filterable Reactive Phosphorus as P	mg/L	0.005	0.10	0.1	80 - 120	103

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361817.002	Total Organic Carbon as NPOC	mg/L	0.2	17	20	80 - 120	87

Full 8270 SVOC in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002	01-PAHs	Acenaphthene	µg/L	0.1	48	40	60 - 140	120
		Acenaphthylene	µg/L	0.1	46	40	60 - 140	114
		Anthracene	µg/L	0.1	49	40	60 - 140	121
		Benzo(a)pyrene	µg/L	0.1	51	40	60 - 140	126
		Fluoranthene	µg/L	0.1	45	40	60 - 140	113
		Naphthalene	µg/L	0.1	46	40	60 - 140	114
		Phenanthrene	µg/L	0.1	46	40	60 - 140	114
		Pyrene	µg/L	0.1	44	40	60 - 140	111
	02-OCs	Aldrin	µg/L	0.1	4.0	4	60 - 140	99
		Delta-BHC	µg/L	0.1	4.8	4	60 - 140	120
		p,p-DDT	µg/L	0.1	3.4	4	60 - 140	85
		Dieldrin	µg/L	0.1	4.9	4	60 - 140	123
		Endrin	µg/L	0.1	3.3	4	60 - 140	84
		Heptachlor	µg/L	0.1	3.2	4	60 - 140	80
	03-OPs	Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	8.4	8	60 - 140	105
		Diazinon (Dimpylate)	µg/L	0.5	9.9	8	60 - 140	124
		Dichlorvos	µg/L	0.5	9.9	8	60 - 140	124
		Ethion	µg/L	0.2	6.9	8	60 - 140	86
	05-SVCH (Cl	Hexachlorobenzene (HCB)	µg/L	0.1	5.2	4	60 - 140	130
	Benzenes,	Hexachlorobutadiene	µg/L	0.5	5.3	4	60 - 140	132
		Hexachloroethane	µg/L	0.5	4.8	4	60 - 140	119
		Pentachlorobenzene	µg/L	0.5	5.1	4	60 - 140	128
		1,2,3,4-tetrachlorobenzene	µg/L	0.5	5.4	4	60 - 140	135
	06-Phthalates	Bis(2-ethylhexyl)phthalate	µg/L	10	<10	8	60 - 140	103
		Butyl benzyl phthalate	µg/L	1	6	8	60 - 140	81
		Di-n-butyl phthalate	µg/L	10	<10	8	60 - 140	100
		Diethyl phthalate	µg/L	5	9	8	60 - 140	108
		Dimethyl phthalate	µg/L	1	7	8	60 - 140	93
		Di-n-octyl phthalate	µg/L	1	7	8	60 - 140	83
	09-Nitrosamine	N-nitroso-di-n-propylamine (NDPA)	µg/L	1	33	32	60 - 140	104
	10-Nitroaromat	Pentachloronitrobenzene (quintozene)	µg/L	1	3	4	60 - 140	86

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Full 8270 SVOC in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002	14-Speciated	2,4-dichlorophenol	µg/L	0.5	46	40	60 - 140	114
	Routine	Phenol	µg/L	0.5	44	40	60 - 140	110
		2,4,6-trichlorophenol	µg/L	0.5	53	40	60 - 140	132
		Pentachlorophenol	µg/L	0.5	53	40	60 - 140	132
	Surrogates	d5-phenol (Surrogate)	µg/L	-	2.6	2	40 - 130	128
		d5-nitrobenzene (Surrogate)	µg/L	-	0.62	0.5	40 - 130	124
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.65	0.5	40 - 130	130
		2,4,6-Tribromophenol (Surrogate)	µg/L	-	6.4	5	40 - 130	127
		d14-p-terphenyl (Surrogate)	µg/L	-	0.61	0.5	40 - 130	122

Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362206.002	Lithium, Li	mg/L	0.005	0.093	0.1	80 - 120	93
	Potassium, K	mg/L	0.1	55	55	80 - 120	100
	Silicon, Si*	mg/L	0.05	0.22	0.25	80 - 120	88
	Sodium, Na	mg/L	0.5	51	50.5	80 - 120	102

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361752.002	Nitrite Nitrogen, NO2 as N	mg/L	0.005	0.10	0.1	80 - 120	102

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002		Delta BHC	µg/L	0.1	0.2	0.2	60 - 140	111
		Heptachlor	µg/L	0.1	0.2	0.2	60 - 140	114
		Aldrin	µg/L	0.1	0.2	0.2	60 - 140	108
		Dieldrin	µg/L	0.1	0.2	0.2	60 - 140	107
		Endrin	µg/L	0.1	0.2	0.2	60 - 140	97
		p,p'-DDT	µg/L	0.1	0.2	0.2	60 - 140	97
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.14	0.15	40 - 130	94

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	9.6	8	60 - 140	120
		Diazinon (Dimpylate)	µg/L	0.5	9.8	8	60 - 140	122
		Dichlorvos	µg/L	0.5	6.4	8	60 - 140	80
		Ethion	µg/L	0.2	9.6	8	60 - 140	119
	Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.40	0.5	40 - 130	81
		d14-p-terphenyl (Surrogate)	µg/L	-	0.44	0.5	40 - 130	87

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002		Naphthalene	µg/L	0.1	40	40	60 - 140	101
		Acenaphthylene	µg/L	0.1	42	40	60 - 140	104
		Acenaphthene	µg/L	0.1	43	40	60 - 140	107
		Phenanthrene	µg/L	0.1	45	40	60 - 140	113
		Anthracene	µg/L	0.1	43	40	60 - 140	108
		Fluoranthene	µg/L	0.1	45	40	60 - 140	112
		Pyrene	µg/L	0.1	47	40	60 - 140	118
		Benzo(a)pyrene	µg/L	0.1	51	40	60 - 140	128
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.4	0.5	40 - 130	89
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	81
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	87

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002	Arochlor 1260	µg/L	1	<1	0.4	60 - 140	104

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples (continued)

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361842.002	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.20	0.2	40 - 160	99
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.18	0.2	40 - 160	89
	Perfluorononanoic acid (PFNA)	µg/L	0.01	0.21	0.2	40 - 160	104
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	0.21	0.2	40 - 160	107
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	0.16	0.2	40 - 160	80
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	0.14	0.2	40 - 160	71
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	0.17	0.2	40 - 160	84
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	0.16	0.2	40 - 160	81

pH in water

Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361753.003	pH**	No unit	-	7.4	7.415	98 - 102	100

Redox Potential (Eh) in water

Method: ME-(AU)-[ENV]AN240

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361755.001	Eh of Sample Relative to Standard H+ Electrode***	mV	-500	432	428	90 - 110	101

Total and Volatile Suspended Solids (TSS / VSS)

Method: ME-(AU)-[ENV]AN114

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361877.002	Total Suspended Solids Dried at 103-105°C	mg/L	5	98	100	80 - 120	98

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362035.002	Total Phenols	mg/L	0.05	0.19	0.2	80 - 120	97

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362010.002	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.1	1	80 - 120	110

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362209.002	Aluminium	µg/L	5	20	20	80 - 120	101
	Antimony	µg/L	1	19	20	80 - 120	97
	Arsenic	µg/L	1	20	20	80 - 120	98
	Barium	µg/L	1	20	20	80 - 120	99
	Beryllium	µg/L	1	20	20	80 - 120	98
	Boron	µg/L	5	20	20	80 - 120	99
	Cadmium	µg/L	0.1	20	20	80 - 120	102
	Chromium	µg/L	1	21	20	80 - 120	103
	Cobalt	µg/L	1	21	20	80 - 120	104
	Copper	µg/L	1	21	20	80 - 120	106
	Iron	µg/L	5	20	20	80 - 120	100
	Lead	µg/L	1	20	20	80 - 120	101
	Manganese	µg/L	1	20	20	80 - 120	102
	Molybdenum	µg/L	1	20	20	80 - 120	99
	Nickel	µg/L	1	21	20	80 - 120	105
	Selenium	µg/L	1	19	20	80 - 120	97
	Silver	µg/L	1	16	20	80 - 120	81
	Strontium	µg/L	1	21	20	80 - 120	105
	Uranium	µg/L	1	22	20	80 - 120	108
	Vanadium	µg/L	1	20	20	80 - 120	102
	Zinc	µg/L	5	20	20	80 - 120	102
LB362209.026	Aluminium	µg/L	5	20	20	80 - 120	102
	Antimony	µg/L	1	19	20	80 - 120	97

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Trace Metals (Dissolved) in Water by ICPMS (continued)

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB362209.026	Arsenic	µg/L	1	19	20	80 - 120	97
	Barium	µg/L	1	20	20	80 - 120	100
	Beryllium	µg/L	1	19	20	80 - 120	95
	Boron	µg/L	5	19	20	80 - 120	97
	Cadmium	µg/L	0.1	20	20	80 - 120	100
	Chromium	µg/L	1	20	20	80 - 120	102
	Cobalt	µg/L	1	21	20	80 - 120	104
	Copper	µg/L	1	21	20	80 - 120	105
	Iron	µg/L	5	20	20	80 - 120	99
	Lead	µg/L	1	20	20	80 - 120	100
	Manganese	µg/L	1	20	20	80 - 120	99
	Molybdenum	µg/L	1	19	20	80 - 120	97
	Nickel	µg/L	1	20	20	80 - 120	102
	Selenium	µg/L	1	20	20	80 - 120	100
	Silver	µg/L	1	16	20	80 - 120	82
	Strontium	µg/L	1	21	20	80 - 120	107
	Uranium	µg/L	1	21	20	80 - 120	105
	Vanadium	µg/L	1	21	20	80 - 120	103
	Zinc	µg/L	5	20	20	80 - 120	102

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361771.002		TRH C10-C14	µg/L	50	800	1000	60 - 140	80
	TRH F Bands	TRH >C10-C16	µg/L	60	800	1000	60 - 140	80

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361916.002	Halogenated	1,1-dichloroethene	µg/L	0.5	40	45.45	60 - 140	88
	Aliphatics	1,2-dichloroethane	µg/L	0.5	43	45.45	60 - 140	95
		Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	41	45.45	60 - 140	90
	Halogenated	Chlorobenzene	µg/L	0.5	34	45.45	60 - 140	74
	Monocyclic	Benzene	µg/L	0.5	20	25	60 - 140	78
	Aromatic	Toluene	µg/L	0.5	21	25	60 - 140	83
		Ethylbenzene	µg/L	0.5	20	25	60 - 140	80
		m/p-xylene	µg/L	1	43	50	60 - 140	86
		o-xylene	µg/L	0.5	22	25	60 - 140	89
	Trihalomethan	Chloroform (THM)	µg/L	0.5	53	45.45	60 - 140	118

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB361916.002	TRH C6-C10	µg/L	50	350	400	60 - 140	89
	TRH C6-C9	µg/L	40	350	350	60 - 140	99

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289651.001	LB361815.025	Chloride	mg/L	0.05	34	17	20	86
		Nitrate Nitrogen, NO3-N	mg/L	0.005	2.0	0.030	2	98
		Sulfate, SO4	mg/L	1	21	2.5	20	93

Forms of Carbon

Method: ME-(AU)-[ENV]AN190

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289745.001	LB361817.005	Total Organic Carbon as NPOC	mg/L	0.2	47	3.5	50	88

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289121A.016	LB361802.004	Mercury, Hg	mg/L	0.0001	0.0021	<0.0001	0.008	109

TKN Kjeldahl Digestion by Discrete Analyser

Method: ME-(AU)-[ENV]AN281/292

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289786.003	LB362010.028	Total Kjeldahl Nitrogen	mg/L	0.05	3.4	0.95	2.5	98

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289879.001	LB362035.004	Total Phenols	mg/L	0.05	0.25	0.07	0.2	94

Total Phosphorus by Kjeldahl Digestion DA in Water

Method: ME-(AU)-[ENV]AN279/AN293

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289786.003	LB362010.028	Total Phosphorus (Kjeldahl Digestion) as P	mg/L	0.02	1.6	0.58	1	101

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE289707.001	LB362209.004	Aluminium	µg/L	5	34	12	20	108
		Antimony	µg/L	1	20	<1	20	99
		Boron	µg/L	5	30	12	20	92
		Cadmium	µg/L	0.1	21	<0.1	20	104
		Chromium	µg/L	1	21	<1	20	105
		Copper	µg/L	1	79	58	20	103
		Iron	µg/L	5	33	13	20	101
		Lead	µg/L	1	21	<1	20	104
		Manganese	µg/L	1	24	3	20	104
		Nickel	µg/L	1	22	<1	20	105
		Zinc	µg/L	5	25	<5	20	102
SE289786.005	LB362209.030	Arsenic	µg/L	1	20	<1	20	98
		Cadmium	µg/L	0.1	20	<0.1	20	101
		Chromium	µg/L	1	21	<1	20	103
		Copper	µg/L	1	21	<1	20	105
		Lead	µg/L	1	21	<1	20	103
		Nickel	µg/L	1	20	<1	20	103
		Zinc	µg/L	5	21	<5	20	103

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE289829.024	LB361916.026	Fumigants	2,2-dichloropropane	µg/L	0.5	<0.5	-	-
			1,2-dichloropropane	µg/L	0.5	<0.5	-	-
			cis-1,3-dichloropropene	µg/L	0.5	<0.5	-	-
			trans-1,3-dichloropropene	µg/L	0.5	<0.5	-	-
			1,2-dibromoethane (EDB)	µg/L	0.5	<0.5	-	-

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Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE289829.024	LB361916.026	Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	-	-
			Chloromethane	µg/L	5	<5	-	-
			Vinyl chloride (Chloroethene)	µg/L	0.3	<0.3	-	-
			Bromomethane	µg/L	10	<10	-	-
			Chloroethane	µg/L	5	<5	-	-
			Trichlorofluoromethane	µg/L	1	<1	-	-
			1,1-dichloroethene	µg/L	0.5	<0.5	45.45	126
			Iodomethane	µg/L	5	<5	-	-
			Dichloromethane (Methylene chloride)	µg/L	5	<5	-	-
			Allyl chloride	µg/L	2	<2	-	-
			trans-1,2-dichloroethene	µg/L	0.5	<0.5	-	-
			1,1-dichloroethane	µg/L	0.5	<0.5	-	-
			cis-1,2-dichloroethene	µg/L	0.5	<0.5	-	-
			Bromochloromethane	µg/L	0.5	<0.5	-	-
			1,2-dichloroethane	µg/L	0.5	<0.5	45.45	125
			1,1,1-trichloroethane	µg/L	0.5	<0.5	-	-
			1,1-dichloropropene	µg/L	0.5	<0.5	-	-
			Carbon tetrachloride	µg/L	0.5	<0.5	-	-
			Dibromomethane	µg/L	0.5	<0.5	-	-
			Trichloroethene (Trichloroethylene,TCE)	µg/L	0.5	<0.5	45.45	138
			1,1,2-trichloroethane	µg/L	0.5	<0.5	-	-
			1,3-dichloropropane	µg/L	0.5	<0.5	-	-
			Tetrachloroethene (Perchloroethylene,PCE)	µg/L	0.5	<0.5	-	-
			1,1,1,2-tetrachloroethane	µg/L	0.5	<0.5	-	-
			1,1,2,2-tetrachloroethane	µg/L	0.5	<0.5	-	-
			1,2,3-trichloropropane	µg/L	0.5	<0.5	-	-
			trans-1,4-dichloro-2-butene	µg/L	1	<1	-	-
			1,2-dibromo-3-chloropropane	µg/L	0.5	<0.5	-	-
			Hexachlorobutadiene	µg/L	0.5	<0.5	-	-
		Halogenated Aromatics	Chlorobenzene	µg/L	0.5	<0.5	45.45	88
			Bromobenzene	µg/L	0.5	<0.5	-	-
			2-chlorotoluene	µg/L	0.5	<0.5	-	-
			4-chlorotoluene	µg/L	0.5	<0.5	-	-
			1,3-dichlorobenzene	µg/L	0.5	<0.5	-	-
			1,4-dichlorobenzene	µg/L	0.3	<0.3	-	-
			1,2-dichlorobenzene	µg/L	0.5	<0.5	-	-
			1,2,4-trichlorobenzene	µg/L	0.5	<0.5	-	-
			1,2,3-trichlorobenzene	µg/L	0.5	<0.5	-	-
		Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	25	113
			Toluene	µg/L	0.5	<0.5	25	121
			Ethylbenzene	µg/L	0.5	<0.5	25	114
			m/p-xylene	µg/L	1	<1	50	120
			Styrene (Vinyl benzene)	µg/L	0.5	<0.5	-	-
			o-xylene	µg/L	0.5	<0.5	25	121
			Isopropylbenzene (Cumene)	µg/L	0.5	<0.5	-	-
			n-propylbenzene	µg/L	0.5	<0.5	-	-
			1,3,5-trimethylbenzene	µg/L	0.5	<0.5	-	-
			tert-butylbenzene	µg/L	0.5	<0.5	-	-
			1,2,4-trimethylbenzene	µg/L	0.5	<0.5	-	-
			sec-butylbenzene	µg/L	0.5	<0.5	-	-
			p-isopropyltoluene	µg/L	0.5	<0.5	-	-
			n-butylbenzene	µg/L	0.5	<0.5	-	-
		Nitrogenous Compounds	Acrylonitrile	µg/L	0.5	<0.5	-	-
			2-nitropropane	µg/L	100	<100	-	-
		Oxygenated Compounds	Acetone (2-propanone)	µg/L	10	<10	-	-
			MtBE (Methyl-tert-butyl ether)	µg/L	0.5	43	-	-
			Vinyl acetate*	µg/L	10	<10	-	-
			MEK (2-butanone)	µg/L	10	<10	-	-
			MIBK (4-methyl-2-pentanone)	µg/L	5	<5	-	-
			2-hexanone (MBK)	µg/L	5	<5	-	-
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	-	-

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Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE289829.024	LB361916.026	Sulphonated	Carbon disulfide	µg/L	2	<2	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.5	-	83
			d8-toluene (Surrogate)	µg/L	-	8.2	-	95
			Bromofluorobenzene (Surrogate)	µg/L	-	9.3	-	94
		Totals	Total BTEX	µg/L	3	<3	-	-
			Total VOC	µg/L	10	43	-	-
		Trihalometha	Chloroform (THM)	µg/L	0.5	<0.5	45.45	139
		nes	Bromodichloromethane (THM)	µg/L	0.5	<0.5	-	-
			Dibromochloromethane (THM)	µg/L	0.5	<0.5	-	-
			Bromoform (THM)	µg/L	0.5	<0.5	-	-

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE289786.005	LB361916.025		TRH C6-C10	µg/L	50	<50	400	94
			TRH C6-C9	µg/L	40	<40	350	99
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	7.4	-	83
			d8-toluene (Surrogate)	µg/L	-	8.2	-	95
			Bromofluorobenzene (Surrogate)	µg/L	-	9.3	-	87
		VPH F	Benzene (F0)	µg/L	0.5	<0.5	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	-	-

MATRIX SPIKE DUPLICATES

SE289786 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
NA	Not Applicable
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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