

ALTON PROPERTY GROUP PTY LTD



Detailed Site Investigation

93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill,
NSW

Document Control

Report Title: Detailed Site Investigation; 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW

Report No: E26536.E02_Rev1

Copies	Recipient
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Revision	Details	Date	Amended By
0	Original	23 July 2025	-
1	Updated architectural plan	28 January 2026	AH

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TABLE OF CONTENTS

	Page Number
EXECUTIVE SUMMARY	I
1. INTRODUCTION	1
1.1 Background and Purpose	1
1.2 Proposed Development	2
1.3 Project Objectives	2
1.4 Scope of Works	2
1.5 Regulatory Framework	3
2. SITE DESCRIPTION	4
2.1 Property Identification, Location and Physical Setting	4
2.2 Local Land Use	5
2.3 Regional Setting	5
2.4 Groundwater Bore Records and Use	6
2.5 Site Walkover Inspections	6
3. PREVIOUS INVESTIGATION	9
4. CONCEPTUAL SITE MODEL	13
4.1 Summary of Site History	13
4.2 Predicted Subsurface Conditions	13
4.3 Potential Contamination Sources	13
4.4 Contaminants of Potential Concern	13
4.5 Risk Assessment	14
4.6 Identified Receptors	15
4.7 Data Gaps	15
5. METHODOLOGY	17
5.1 Sampling, Analytical and Quality Plan	17
5.2 Data Quality Objectives	17
5.3 Data Quality Indicators	20
5.4 Sampling Rationale	20
5.5 Assessment Criteria	21
5.6 Soil Sampling Methodology	22
5.7 Groundwater Sampling Methodology	23
6. DATA QUALITY ASSESSMENT	25
7. RESULTS	26
7.1 Soil	26
7.2 Groundwater	29
8. SITE CHARACTERISATION	31

8.1	Subsurface Conditions	31
8.2	Soil Impacts	31
8.3	Groundwater Impacts	31
8.4	Review of Conceptual Site Model	31
9.	CONCLUSION	33
10.	RECOMMENDATIONS	34
11.	STATEMENT OF LIMITATIONS	35
	REFERENCES	36

Schedule of Tables

Table 2-1	Site Identification Details	4
Table 2-2	Local Sensitive Receptors	5
Table 2-3	Regional Setting Information	5
Table 3-1	Summary of the Previous Investigation	9
Table 4-1	Assessment of Potential Contamination Risk	14
Table 4-2	Preliminary Conceptual Site Model	16
Table 5-1	Summary of Project Data Quality Objectives	18
Table 5-2	Data Quality Indicators	20
Table 5-3	Adopted Investigation Levels for Soil and Groundwater	21
Table 5-4	Summary of Soil Sampling Methodology	22
Table 5-5	Summary of Groundwater Sampling Methodology	23
Table 6-1	Quality Assurance Process	25
Table 7-1	Generalised Sub-Surface Profile	26
Table 7-2	Summary of Soil Analytical Results	28
Table 7-3	Monitoring Well Construction Details	29
Table 7-4	Groundwater Field Data	29
Table 7-5	Summary of Groundwater Analytical Results	30
Table 8-1	Revised Conceptual Site Model	32

Appendices

APPENDIX A – FIGURES

1. Site Locality Plan
2. Sampling Location Plan

APPENDIX B – TABLES

- Table 1. Summary of Soil Analytical Results
- Table 2. Summary of Groundwater Analytical Results
- Table 3. Summary of QA/QC Sample Analytical Results

APPENDIX C – PLANS OF THE PROPOSED DEVELOPMENT

APPENDIX D – BOREHOLE LOGS

APPENDIX E – CALIBRATION FORM AND FIELD DATA SHEETS

APPENDIX F – CHAIN OF CUSTODY AND SAMPLE RECEIPT DOCUMENTATION

APPENDIX G – LABORATORY ANALYTICAL REPORTS

APPENDIX H – QA/QC ASSESSMENT

APPENDIX I – LABORATORY QA/QC AND DQOS

EXECUTIVE SUMMARY

EI Australia (EI) was engaged by Alton Property Group Pty Ltd Pty Ltd ('the client') to conduct a detailed site investigation (DSI) of 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW ('the site').

The site is located approximately 24 kilometres (km) north-west of the Sydney central business district (CBD), within the local government area (LGA) of The Hills Shire Council). It covers a total area of 17,623.6 square metres (m²), being comprised of eighteen (18), adjoining properties, identified as followings:

- Lot 27 in Deposited Plan (DP) 15399 (93 Cecil Avenue);
- Lot 22 in DP 778595 (95 Cecil Avenue);
- Lot 1 in DP 531559 (95A Cecil Avenue);
- Lot 21 in DP 778595 (95B Cecil Avenue);
- Lot 6 in DP 705913 (97 Cecil Avenue);
- Lot 4 in DP 531559 (97A Cecil Avenue);
- Lot 5 in DP 705913 (97B Cecil Avenue);
- Lot 1 in DP 581293 (99 Cecil Avenue);
- Lot 3 in DP 581293 (99A Cecil Avenue);
- Lot 2 in DP 581293 (101 Cecil Avenue);
- Lot 4 in DP 581293 (101A Cecil Avenue);
- Lot 1 in DP 547897 (103 Cecil Avenue);
- Lot 2 in DP 547897 (103A Cecil Avenue);
- Lot 1 in DP 591676 (105 Cecil Avenue);
- Lot 2 in DP 591676 (105A Cecil Avenue);
- Lot 20 in DP 15399 (107 Cecil Avenue);
- Lot 9 in DP 29141 (9 Roger Avenue); and
- Lot 10 in DP 29141 (10 Roger Avenue).

Based on the findings of a preliminary site investigation (PSI) completed by EI in December 2024 (EI Australia Report E26536.E01_Rev2), the potential for contamination to exist on the land was identified. Further investigation was therefore considered warranted, in order to assess the site's suitability for a proposed mixed commercial and high-density residential redevelopment.

The purpose of this DSI, therefore, was to evaluate the contamination status of the land, in support of the corresponding development application (DA) to the Hills Shire Council. It is intended to enable the developer to meet their obligations under the *Contaminated Land Management Act 1997* and *State Environmental Planning Policy (Resilience and Hazards) 2021*, in particular the requirements for the assessment and management of contaminated soil and groundwater (if present).

Objectives

The objectives of this investigation were to:

- Assess the nature and extent of any soil and groundwater contamination (if present), by means of intrusive sampling and laboratory analysis for the relevant contaminants of potential concern (CoPCs); and
- Make recommendations for the appropriate management of any impacted soils and/or groundwater, should site contamination be identified.

Findings

The key findings of this DSI were as follows:

- The history review and walkover inspections indicated that the site had been used for low-density residential purposes since 1943. Prior to that time, the land was vacant (undeveloped / vegetated), with no evidence of market/orchard gardening having taking place. From 1986, the site remained essentially the same in layout, being residential in nature, although some of the properties were utilised for commercial (non-industrial) purposes, including disability/aged care and medical/cosmetic clinics.
- The site and surrounding lands within close proximity ($\leq 250\text{m}$ radius) were free of statutory notices and licensing agreements issued under the *Contaminated Land Management Act 1997* and *Protection of the Environment Operations Act 1997*. The site was not included on the *List of NSW Contaminated Sites Notified to the EPA*.
- No visual or olfactory indicators of gross contamination (e.g. suspicious odours, staining, stressed or dead vegetation, potential asbestos containing materials) were observed during the inspections. Visual indication of site contamination was limited to observation of ash/slag within the fill material at sampling locations BH15, located at the north-eastern boundary of the site.
- No visual evidence of infrastructure associated with an underground petroleum storage system (UPSS) was observed on the site. No above ground storage tanks (ASTs) were observed to be present.
- Excluding any hardstand, the sub-surface of the site was generalised as a layer of shallow sandy silt filling (0.1 to 1.0 m thickness), overlying natural (residual) clay (2.14 to 5.05 m thickness), with bedrock (shale, siltstone, laminite and sandstone) occurring from 1.1 to 5.3 meters below ground level (mBGL) onwards. The potential for acid sulfate soils (ASS) to be present was considered to be low.
- Laboratory analytical results for the representative fill and natural soil samples were found to comply with the adopted soil investigation levels (SILs) applicable to low to high-density residential settings.
- The depth to groundwater was 1.43 – 5.52 mBGL (115.97 – 236.29 mAHD), with the inferred hydraulic gradient being southerly. Local groundwater conditions were near neutral to slightly alkaline (pH: 6.39 – 9.23), and marginal to brackish (electrical conductivity (EC): 1065 - 1511 $\mu\text{S}/\text{cm}$).
- Laboratory analytical results for the representative groundwater samples were found to comply with the adopted groundwater investigation levels (GILs), except for dissolved copper (2 – 6 $\mu\text{g}/\text{L}$), nickel (18 – 24 $\mu\text{g}/\text{L}$) and zinc (37 – 73 $\mu\text{g}/\text{L}$). The heavy metal concentrations were considered typical of urban environments, indicative of natural (background) conditions, and to not pose a significant risk to the identified site receptors.

Based on the findings of this DSI, and with consideration of EI's *Statement of Limitations (Section 11)*, it is considered that the site can be made suitable for the proposed mixed commercial and high-density residential redevelopment, subject to the successful implementation of the recommendations provided in **Section 10**.

1. INTRODUCTION

1.1 Background and Purpose

EI Australia (EI) was engaged by Alton Property Group Pty Ltd Pty Ltd ('the client') to conduct a detailed site investigation (DSI) of 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW (henceforth referred to as 'the site').

The site is located approximately 24 kilometres (km) north-west of the Sydney central business district (CBD), within the local government area (LGA) of The Hills Shire Council (**Figure 1, Appendix A**). It covers a total area of 17,623.6 square metres (m²), being comprised of eighteen (18), adjoining properties, identified as follows (**Appendix B**):

- Lot 27 in Deposited Plan (DP) 15399 (93 Cecil Avenue);
- Lot 22 in DP 778595 (95 Cecil Avenue);
- Lot 1 in DP 531559 (95A Cecil Avenue);
- Lot 21 in DP 778595 (95B Cecil Avenue);
- Lot 6 in DP 705913 (97 Cecil Avenue);
- Lot 4 in DP 531559 (97A Cecil Avenue);
- Lot 5 in DP 705913 (97B Cecil Avenue);
- Lot 1 in DP 581293 (99 Cecil Avenue);
- Lot 3 in DP 581293 (99A Cecil Avenue);
- Lot 2 in DP 581293 (101 Cecil Avenue);
- Lot 4 in DP 581293 (101A Cecil Avenue);
- Lot 1 in DP 547897 (103 Cecil Avenue);
- Lot 2 in DP 547897 (103A Cecil Avenue);
- Lot 1 in DP 591676 (105 Cecil Avenue);
- Lot 2 in DP 591676 (105A Cecil Avenue);
- Lot 20 in DP 15399 (107 Cecil Avenue);
- Lot 9 in DP 29141 (9 Roger Avenue); and
- Lot 10 in DP 29141 (10 Roger Avenue).

Based on the findings of a preliminary site investigation (PSI) completed by EI in December 2024 (EI Australia Report E26536.E01_Rev2), the potential for contamination to exist on the land was identified.

The potential sources of contamination identified in the PSI included imported fill materials of unknown origin and quality, surface deposition of hazardous materials (if present in building structures), application of pesticides around building (footing) perimeters, leaks from vehicles in the parking areas and off-site migration from neighbouring (up-gradient) commercial/industrial properties. Further investigation was therefore considered warranted, in order to assess the site's suitability for a proposed mixed commercial and high-density residential redevelopment.

The purpose of this DSI, therefore, was to evaluate the contamination status of the land, in support of the corresponding development application (DA) to the Hills Shire Council. It is intended to enable the developer to meet their obligations under the *Contaminated Land*

Management Act 1997 and State Environmental Planning Policy (Resilience and Hazards) 2021, in particular the requirements for the assessment and management of contaminated soil and groundwater (if present).

1.2 Proposed Development

Based on the supplied plans (**Appendix C**), the site redevelopment will involve the demolition of all existing structures, followed by the construction of four, multi-storey, mixed commercial (retail) and residential (apartment) buildings, overlaying multi-level basement facilities. The basement footprint will cover the majority of the site and be accessible via a driveway on Cecil Avenue. The development would be delivered in two stages including:

- Stage 1: Buildings E and S, plus a public through-site link; and
- Stage 2: Buildings N and W.

1.3 Project Objectives

The objectives of this investigation were to:

- Assess the nature and degree of any soil and groundwater contamination (if present), by means of intrusive sampling and laboratory analysis for the relevant contaminants of potential concern (CoPCs); and
- Make recommendations for the appropriate management of any impacted soils and/or groundwater, should site contamination be identified.

1.4 Scope of Works

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

- Review of the previous environmental investigation relating to the site;
- Review of existing underground services on-site, utilising Before You Dig Australia (BYDA) plans and electro-magnetic equipment operated by a licensed locator;
- Drilling of 27 borehole locations where accessible across the site;
- Multiple level sampling of fill and natural soils at each of the boreholes (BH01M, BH02, BH03M, BH04 to BH07, BH08M, and BH09 to BH27);
- In-field screening of soil headspace samples for volatile organic compounds (VOCs), using a photo-ionisation detector (PID);
- The installation of a groundwater monitoring well in 3 of the bores (BH01M, BH03M, BH08M);
- Completion of a groundwater monitoring event (GME), which included measurement of standing water levels (SWLs) and sampling at the installed wells; and
- Laboratory analysis of selected soil and groundwater samples for the CoPCs, as determined from the conceptual site model (CSM) and field observations.

This report documents the desk study findings, the CSM, data quality objectives, sampling methodologies and laboratory analytical results. It also provides a record of observations made during the site walkover inspections, test bore and monitoring well construction logs and a discussion of the results in regards to potential risks to human health and the environment. It concludes with a statement concerning the site's suitability for the proposed (mixed residential and commercial) development.

1.5 Regulatory Framework

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

- *Contaminated Land Management Act 1997* (the CLM Act 1997);
- *Protection of the Environment Operations Act 1997* (the POEO Act 1997);
- *Environmental Planning and Assessment Act 1979* (the EP&A Act 1979);
- *State Environmental Planning Policy (Resilience and Hazards) 2021*;
- *The Hills Local Environmental Plan 2019*;
- NSW Environment Protection Authority (NSW EPA, 2017) *Guidelines for the NSW Site Auditor Scheme*;
- EPA (2020) *Consultants Reporting on Contaminated Land: Contaminated Land Guidelines*;
- EPA (2022a) *Sampling Design Part 1 - Application*; and
- NEPC (2013) *National Environmental Protection (Assessment of Site Contamination) Amendment Measure 1999*.

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 Details (PSI - EI, 2024a)

Attribute	Description
Street Address	93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW
Location and Description	Approximately 24 kilometres north-west of the Sydney CBD. Bound by: <ul style="list-style-type: none"> ▪ North: Cecil Avenue, followed by University of Canberra Sydney (Hills Campus) and residential and commercial properties; ▪ East: Residential properties; ▪ South: Residential and commercial properties, and Roger Avenue; ▪ West: Residential and commercial properties.
Geographical Coordinates	North-eastern corner of site (datum GDA2020-MGA56): <ul style="list-style-type: none"> ▪ Easting: 315074.207 ▪ Northing: 6265348.801 (Source: http://maps.six.nsw.gov.au)
Site Area	17,623.60 m ² (Source: SDG; ref. 6864, dated 22/2/2017)
Lot and DP	Lot 27 in DP 15399 (93 Cecil Avenue); Lot 22 in DP 778595 (95 Cecil Avenue); Lot 1 in DP 531559 (95A Cecil Avenue); Lot 21 in DP 778595 (95B Cecil Avenue); Lot 6 in DP 705913 (97 Cecil Avenue); Lot 4 in DP 531559 (97A Cecil Avenue); Lot 5 in DP 705913 (97B Cecil Avenue); Lot 1 in DP 581293 (99 Cecil Avenue); Lot 3 in DP 581293 (99A Cecil Avenue); Lot 2 in DP 581293 (101 Cecil Avenue); Lot 4 in DP 581293 (101A Cecil Avenue); Lot 1 in DP 547897 (103 Cecil Avenue); Lot 2 in DP 547897 (103A Cecil Avenue); Lot 1 in DP 591676 (105 Cecil Avenue); Lot 2 in DP 591676 (105A Cecil Avenue); Lot 20 in DP 15399 (107 Cecil Avenue); Lot 9 in DP 29141 (9 Roger Avenue); and Lot 10 in DP 29141 (10 Roger Avenue). Note: According to Six Maps (http://maps.six.nsw.gov.au), 9 Roger Avenue is Lot 6 in DP 29141, while 10 Roger Avenue is Lot 5 in DP 29141.
State Survey Marks	Three survey marks are in close proximity to the site (as per http://maps.six.nsw.gov.au): <ul style="list-style-type: none"> ▪ SS180254 on Terminus Street (north-west site corner); ▪ SS49027D on Cecil Avenue (north-west site corner); and SS68502 on Cecil Avenue (north-east site corner).
LGA	The Hills Shire Council
Parish	Castle Hill
County	Cumberland

Attribute	Description
Current Zoning	MU1: Mixed Use (<i>The Hills Local Environmental Plan 2019</i>)

2.2 Local Land Use

The site is situated with a commercial / industrial precinct. The local sensitive receptors within close proximity to the site are identified in **Table 2-2**.

Table 2-2 Local Sensitive Receptors (PSI - EI, 2024a)

Direction	Land Use Description	Sensitive Receptor (and distance from site)
North	Cecil Avenue, followed by University of Canberra (Sydney Hills campus), commercial and residential properties Sherwin Avenue Reserve	University employees and students (45m) Commercial employees and visitors (120m) Residents (120m) Reserve users (450m)
East	Residential property Greenup Park Reserve Castle Hill Preschool	Residents (130m) Reserve users (630m) School employees, users and visitors (620m)
South	Commercial and residential properties Redeemer Baptist School Papilio Early Learning Castle Hill Saint Gabriel's School	Residents (adjacent) Commercial employees and visitors (120m) School employees, students and visitors (300-600m)
West	Residential properties Castle Hill Montessori Childcare	Residents (adjacent) School employees, users and visitors (240m)

2.3 Regional Setting

The topography, (hydro)geology and soil landscape information is summarised in **Table 2-3**.

Table 2-3 Regional Setting Information (PSI - EI, 2024a)

Attribute	Description
Topography	The area displays a moderate downslope from north to south. Site elevations range from 132 metres Australian Height Datum (m AHD) at the northern boundary, to 120m AHD at the southern boundary.
Drainage	Likely to be consistent with the general slope of the site (i.e. towards the south). Runoff will be collected by pit and pipe services, discharging into the municipal stormwater system.
Geology	Information on regional sub-surface conditions, referenced from the Department of Mineral Resources <i>Sydney 1:100,000 Geological Series Sheet 9130</i> (DMR 1983), indicates the site is underlain by Ashfield (<i>Rwa</i>) and Bringelly (<i>Rwb</i>) Shale formations. These rock types are part of the Wianamatta Group, with Ashfield Shale being comprised of laminite and dark grey shale, while Bringelly Shale consists of shale, calcareous claystone, laminate and fine to medium grained, lithic-quartz sandstone.
Soil Landscape	The Soil Conservation Service of NSW <i>Soil Landscapes of the Sydney 1:100,000 Sheet 9130</i> (Chapman and Murphy, 1989) indicates that the site lies within undulating to rolling low hills formed on Wianamatta Group shales (local relief: 50-80m, slopes: 5-20%). The area features narrow ridges, hill crests and valleys. The natural soils are typically shallow to moderately deep (up to 2m), yellow and gleyed podzols.
Acid Sulfate Soil (ASS) Risk	According to the <i>Prospect / Parramatta River ASS Risk Map</i> (1:25,000 scale; Murphy, 1997), the subject land lies in an area having "No Known Occurrence". In such case, ASSs are not known or expected to occur and "land management activities are not likely to be affected". Based on the map and elevation (>5m AHD) information, the potential for ASS

Attribute	Description
	presence on-site was considered to be low and further consideration unwarranted.
Nearest Surface Water Features	Cattai Creek (1.5km west: considered likely to be cross-gradient and an unlikely receptor) Excelsior and Darling Mills Creeks (2.4km south: considered likely to be down-gradient and possible receptors)
Groundwater Flow Direction	Anticipated to be a southerly direction (based on the local topography)

2.4 Groundwater Bore Records and Use

An online search for groundwater bores registered with WaterNSW was conducted by EI on 25 October 2024 (<https://realtimedata.watersw.com.au/water.stm>). The search revealed four registered bores within a 500 metre radius of the site (**Table 2-4**). All four bores were authorised for 'domestic purpose', suggesting the local groundwater resource was being utilised, at least to some extent.

Table 2-4 Summary of Proximate Registered Groundwater Bores

Bore	Distance and Direction	Date Drilled	Drilled Depth (m)	SWL (m BGL)	Purpose
GW111750	139m north-east	01.10.2011	13.75	-	Domestic
GW111751	226m north-east	01.10.2011	18.50	-	Domestic
GW109571	487m north-east	02.03.2004	9.50	5.0	Domestic
GW109570	488m south-east	02.03.2004	9.50	4.3	Domestic

2.5 Site Walkover Inspections

Site observations were recorded during walkover inspections conducted on 15 and 23 October 2024. A summary of these observations is detailed below.

The site was comprised eighteen properties assumed to each essentially be residential in nature (based on building type). Some of the properties were being used for commercial (non industrial) purposes. A description of each is provided in **Table 2-5**.

Table 2-5 Description of the Individual Properties

Property	Description
93 Cecil Avenue (Lot 27 in DP 15399; 1780m ²)	Single-storey, brick residence, shed and swimming pool. Buildings in poor to fair condition. Remainder made up of gardens and brick pavements.
95 Cecil Avenue (Lot 22 in DP 778595; 860m ²)	Vacant residential property (house). Remainder made up of gardens, concrete paving and imported gravel.
95A Cecil Avenue (Lot 1 in DP 531559; 1035m ²)	Vacant residential property (single-storey brick house, in fair condition). Remainder made up of overgrown gardens, worn brick pavement and accessible soil.
95B Cecil Avenue (Lot 21 in DP 778595; 825m ²)	Two-storey residence, a garage and concrete pavement (all in good condition). Accessible soil at the rear of the property.
97 Cecil Avenue (Lot 6 in DP 705913; 900m ²)	Single-storey brick building, in use as the <i>Australian Disability and Aged Care Clinic</i> . Building in good condition; however, visible flaking paint on metal fixtures. Remainder made up of a green area and a brick / concrete driveway.
97A Cecil Avenue (Lot 4 in DP 531559; 1050m ²)	Single-storey, brick residence, a garage and concrete driveway. Buildings in poor to fair condition. Remainder made up of overgrown vegetation and

Property	Description
	accessible soil.
97B Cecil Avenue (Lot 5 in DP 705913; 740m ²)	Vacant residential property (two-storey brick house). Remainder made up of brick pavements, a green area and accessible soil.
99 Cecil Avenue (Lot 1 in DP 581293; 880m ²)	Vacant residential property, containing a two-storey, brick house and a single-storey, timber house. Remainder made up of brick and concrete pavements, a green area and accessible soil. Buildings and paving in poor to fair condition.
99A Cecil Avenue (Lot 3 in DP 581293; 890m ²)	Vacant residential property (two-storey brick houses). Remainder made up of brick pavements, green areas (with overgrown vegetation) and accessible soils. Buildings and paving in poor to fair condition.
101 Cecil Avenue (Lot 2 in DP 581293; 875m ²)	Single-storey brick building, in use as the <i>Babyface Cosmetic Skin and Spa Clinic</i> . Remainder made up of a separate office space, a detached toilet facility, green areas (with overgrown vegetation) and a brick and concrete paved driveway / parking area. Buildings in fair to good condition. Paving in poor to fair condition, with cracking and oil-like staining.
101A Cecil Avenue (Lot 4 in DP 581293; 865m ²)	Vacant residential property, containing a single-storey, brick house (with basement) and a timber shed. Buildings in poor condition. Remainder made up of overgrown vegetation and accessible soils.
103 Cecil Avenue (Lot 1 in DP 547897; 810m ²)	Single-storey, brick residence and swimming pool. Buildings in fair to good condition. Remainder made up of concrete paving, gravel, green (garden) areas and accessible soils.
103A Cecil Avenue (Lot 2 in DP 547897; 870m ²)	Vacant residential property, containing a single-storey, brick house. Remainder made up of concrete paving (in fair condition), overgrown vegetation and accessible soils.
105 Cecil Avenue (Lot 1 in DP 591676; 830m ²)	Single-storey brick building, in use as the <i>Medical Aesthetics Face and Body Clinic</i> . Remainder made up of a concrete paved driveway / parking area, green areas (with overgrown vegetation) and accessible soils. Building and pavements in good condition.
105A Cecil Avenue (Lot 2 in DP 591676; 855m ²)	Two-storey, concrete and timber residence (in good condition). Remainder made up of concrete paving (in good condition) and green areas with overgrown vegetation.
107 Cecil Avenue (Lot 20 in DP 15399; 1720m ²)	Single-storey, brick residence and a timber shed. Remainder made up of concrete pavements, lawns and gardens. Buildings and pavements in fair to good condition (minor cracking observed on the pavements).
9 Roger Avenue (Lot 9 in DP 29141; 795m ²)	Vacant residential property, containing a single-storey house, garage and swimming pool. Remainder made up of brick and concrete paving, green areas with overgrown vegetation Buildings and pavements in fair to good condition.
10 Roger Avenue (Lot 10 in DP 29141; 960m ²)	Vacant residential property, containing a two-storey, brick house. Remainder made up of brick pavements and a green (lawn / garden) area at the front.

- Based on their age and construction, many of the site buildings had the potential of having asbestos-containing materials (ACMs) and/or lead-based paints (LBPs) as part of their construction. Exceptions were probably limited to 95B Cecil Avenue, 97B Cecil Avenue, 99 Cecil Avenue and 107 Cecil Avenue.
- Many of the paved areas were in poor condition with cracking and weathering. Petroleum-hydrocarbon (oil-like) staining was observed in a few of the parking areas (e.g. 101 Cecil Avenue).
- With much of the surface being covered by hardstand and aggregate (coarse gravel), imported filling materials of varying origins and qualities were expected to be present across the site.
- No evidence of an underground petroleum storage system (UPSS) was found on any part of the site.

- No above-ground storage tanks (ASTs) were observed to be present on any of the properties. No major chemical storage facility was observed (chemicals being limited to common household cleaning, sanitary and preserving agents etc.).
- No visual or olfactory indicators of gross contamination (e.g. suspicious odours, staining, stressed or dead vegetation, potential asbestos containing materials) were observed during the inspections.
- A diverse range of plants was present across the site, suggesting phytotoxicity was not an issue for near-surface soils.

3. PREVIOUS INVESTIGATION

Multiple previous reports have been completed for the site by EI, including:

- EI (2024a) *Preliminary Site Investigation; 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW* (EI Australia Reference E26536.E01_Rev2, dated 12 December 2024).
- EI (2024b) *Hazardous Materials Survey; 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW* (EI Australia Reference E26536.E10_Rev1, dated 6 December 2024).
- EI (2024c) *Acid Sulfate Soil Management Plan; 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW* (EI Australia Reference E26536.E14_Rev1, dated 6 December 2024).
- EI (2024d) *Preliminary Geotechnical Assessment; 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW* (EI Australia Reference E26536.G01_Rev1, dated 13 December 2024).
- EI (2024e) *Salinity Management Plan; 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW* (EI Australia Reference E26536.G17_Rev1, dated 6 December 2024).

A summary of the key findings of the previous reports relevant to this investigation are provided in **Table 3-1**.

Table 3-1 Summary of the Previous Investigations

Report	Project Task	Findings
EI (2024a) <i>Preliminary Site Investigation; 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW</i>	Objectives	The main objective of this preliminary site investigation (PSI) was to evaluate the potential for contamination, on the basis of historical land uses and documentary evidence of possible pollutant sources. A secondary objective, should site contamination be deemed possible, was to make recommendations for further (detailed) investigation and land management.
	Scope of Works	In order to achieve the above objectives, the following scope of work was completed: <ul style="list-style-type: none"> ▪ A review of geological and soil landscape maps for the project area; ▪ A search for WaterNSW registered groundwater bores within 500m radius of the site; ▪ A site walkover inspection; ▪ Review of a series of historical aerial photographs (dating from 1943), to assess site history and local land development; ▪ Collation and review of land title records, to determine historical property ownership; ▪ Review of environmental database searches conducted by Lotsearch Pty Ltd; ▪ Searches of databases maintained by the Environment Protection Authority of New South Wales (EPA) for statutory notices and licensing agreements issued under the <i>Contaminated Land Management Act 1997</i> and <i>Protection of the Environment Operations Act 1997</i>; ▪ A search of the <i>List of NSW Contaminated Sites Notified to the EPA</i>; ▪ Presentation of a conceptual site model (CSM); and ▪ Data interpretation and reporting.
	History, Description and	<ul style="list-style-type: none"> ▪ The site had been used for residential purposes since 1943. Prior to that time, the land was vacant (undeveloped / vegetated), with no

Report	Project Task	Findings
	CSM	<p>evidence of market / orchard gardening taking place. From 1986, the site remained essentially the same in layout, being residential in nature, although some of the properties were utilised for commercial (non-industrial) purposes, including disability / aged care and medical / cosmetic clinics.</p> <ul style="list-style-type: none"> ▪ Post 1943, the surrounding areas were heavily urbanised, evolving into a densely populated suburban landscape. Major growth phases occurred between 1951 and 1986, with marked increases in residential and commercial density, extensive road paving and reduced open spaces. ▪ The site was free of statutory notices and licensing agreements issued under the <i>Contaminated Land Management Act 1997</i> and <i>Protection of the Environment Operations Act 1997</i>. None of the properties comprising the site were included on the <i>List of NSW Contaminated Sites Notified to the EPA</i>. ▪ No evidence of a UPSS was found on any part of the site. No AST was present on any of the properties. ▪ Many of the paved areas were in poor condition with cracking and weathering. Petroleum-hydrocarbon staining was observed in a few of the parking areas. Apart from the oil-like staining, no visual sign of gross contamination was detected across the site. No olfactory evidence of contamination (i.e. suspicious odour) was detected during the inspections. ▪ Based on their age and construction, many of the site buildings have the potential of having ACMs and/or LBPs as part of their construction. ▪ With much of the surface being covered by hardstand and aggregate (coarse gravel), imported filling materials of varying origins and qualities have the potential of being present across the site. ▪ While the site had a long history of on-going (continuous), low-density residential use, certain potentially contaminating sources were recognised, namely: <ul style="list-style-type: none"> › Imported fill materials of unknown origin and quality; › Building fabrics containing hazardous substances (including bonded ACMs, LBPs and metallic surfaces), the weathering of which would result in deposition of contaminants in near-surface soils; › Application of pesticides around building (footing) perimeters; › Leaks from vehicles in the parking areas; and › Migration of mobile contaminants from neighbouring commercial properties. ▪ Considering the site's existing use and the proposed future development, it was considered that the site could be made suitable for the intended use, to be supplemented with further investigation work after demolition of existing structures and their removal from the site.
	Conclusion	<p>EI concluded that the site could be made suitable for the proposed (mixed commercial and residential) redevelopment, to be supplemented with further investigation work after demolition of existing structures and their removal from the site.</p>
	Recommendations	<p>EI provided the following recommendations in relation to the proposed development:</p> <ul style="list-style-type: none"> ▪ A Stage 2 DSI should be undertaken after the demolitions, to further assess soil and groundwater quality on the land. The DSI should include intrusive sampling and associated laboratory analysis for the

Report	Project Task	Findings
		<p>CoPC identified. In designing the sampling, analytical and quality plan (SAQP) for the DSI, the NSW EPA (2022) <i>Sampling Design Part 1 - Application</i> should be referred to.</p> <p>Note: Findings from the outstanding Council archives (Section 3.3) searches are to be included in the DSI report.</p> <ul style="list-style-type: none"> ▪ All identified hazardous materials must be appropriately managed during future demolition works, to maintain worker health and safety and prevent the spread of hazardous substances onto the site surface. <ul style="list-style-type: none"> ▸ 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. ▸ Where clearance inspection indicates hazardous materials remain on the site, further removal and re-clearance inspection, must be undertaken. ▪ Following building / pavement demolition and removal of associated wastes, an inspection of the exposed surface should be performed by a suitably qualified environmental consultant. This inspection may coincide with the asbestos clearance program. ▪ All soil materials designated for off-site disposal as part of the proposed development, including any <i>virgin excavated natural material</i> (VENM), must be <u>pre-classified</u> in accordance the EPA (2014) <i>Waste Classification Guidelines</i>. In designing the SAQP for waste classification, the EPA (2022a) <i>Sampling Design Part 1 - Application</i> guidelines should be referred to and the analytical suite is to include the identified CoPC. The analytical results from the DSI could be utilised for this purpose. ▪ All non-VENM (fill) soils are to be transported to EPA-licenced landfill facilities. ▪ Any material imported to the site should be validated as suitable for the intended (residential) land use, in accordance with EPA guidelines. <p>EI emphasised that these recommendations could be managed through the development application process.</p>
<p>EI (2024b) <i>Hazardous Materials Survey; 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW</i></p>	<p>Summary</p>	<p>This survey confirmed the presence of asbestos- and metal- containing products, including lead-based paints. Synthetic mineral fibres and polychlorinated biphenyls from fluorescent lights were also identified.</p>
<p>EI (2024c) <i>Acid Sulfate Soil Management Plan; 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW</i></p>	<p>Objectives</p>	<p>The objective of the Acid Sulfate Soil Management Plan was to provide a framework for the identification and management of any acid sulfate soil (ASS) that may be encountered during the proposed development works.</p>
	<p>Scope of Works</p>	<p>In order to achieve the project objective, the scope of works is as follows:</p> <ul style="list-style-type: none"> ▪ Identification of the site investigation requirements, to establish if and where ASSs are present; ▪ Description of the soil management procedures to be undertaken on-site, which when implemented will prevent, or control, the generation of acid leachate; and ▪ Description of the contingency measures to be implemented in the case of failure of management procedures.

Report	Project Task	Findings
	Conclusion	<p>Based on these preliminary findings, the site is situated within a relatively sloped, 132.61-113.5m AHD, shale environment. It displayed none of the geomorphic indicators of ASS presence, suggesting that the occurrence of ASS was unlikely.</p> <p>Nevertheless, as the proposed development involves bulk soil excavations to depths of 12-13m BGL, intrusive investigation, involving soil sampling and laboratory analysis, is required prior to excavation to confirm the presence or absence of ASS. This requirement was consistent with the <i>The Hills Local Environmental Plan 2019</i>, as well as Schedule 3 of the <i>NSW Environmental Planning and Assessment Regulation 1994</i>.</p>
EI (2024d) <i>Preliminary Geotechnical Assessment</i> , 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Objectives	This Preliminary Geotechnical Assessment report was undertaken to assess the likely Site surface and subsurface conditions for the development of a preliminary conceptual ground model of soil, rock and groundwater conditions beneath the site based on our experience and previous investigations within the vicinity of the site.
	Conclusion	The report concluded that the site is considered suitable for the proposed development provided the following: (1) excavation methodologies are carried out (2) all excavation faces are retained by engineered retaining walls and (3) all footings/piles for the proposed development are designed to be founded and socked into sandstone bedrock as per the recommendations outlined in this report and subjected to a detailed geotechnical investigation to confirm the findings. Further geotechnical investigation and design input are required during the detailed design phase prior to and during construction.
EI (2024e) <i>Salinity Management Plan</i> ; 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Objectives	The objective of the Salinity Management Plan was to provide a framework for the identification and management of any saline soils that may be encountered during the proposed development works.
	Scope of Works	<p>In order to achieve the project objective, the scope of works is as follows:</p> <ul style="list-style-type: none"> ▪ Identification of the site investigation requirements, to establish if and where saline soils are present; ▪ Description of the soil management procedures to be undertaken on-site, which when implemented will prevent, or control, the generation of saline leachate; and ▪ Description of the contingency measures to be implemented in the case of failure of management procedures.
	Conclusion	<p>Based on preliminary findings, the site was situated within a relatively sloped, 132.61-113.5m AHD, shale environment. It displayed a moderate potential for saline soils. None of the salinity indicators listed were apparent.</p> <p>As the proposed development involved bulk soil excavations to depths of 12-13m BGL, intrusive investigation, involving soil sampling and laboratory analysis, is required prior to excavation to confirm the presence or absence of saline soils. This requirement was consistent with <i>The Hills Local Environmental Plan 2019</i>, as well as Schedule 3 of the <i>NSW Environmental Planning and Assessment Regulation 1994</i>.</p> <p>An investigation component thus forms part of the proposed scope for site redevelopment. Should it confirm that saline soils are not present, then the remainder of this plan would not apply to any subsequent site management.</p>

4. PRELIMINARY CONCEPTUAL SITE MODEL

In accordance with NEPC (2013) *Schedule B2 - Guideline on Site Characterisation*, a CSM was developed as part of the EI (2024a) preliminary site investigation, which assessed plausible linkages between potential contamination sources, migration pathways and receptors. It is hereby summarised, taking into account the findings from EI's additional walkover inspections and anecdotal information supplied by the client.

4.1 Summary of Site History

The history review and walkover inspections indicated that the site had been used for low-density residential purposes since 1943. Prior to that time, the land was vacant (undeveloped / vegetated), with no evidence of market / orchard gardening taking place. From 1986, the site remained essentially the same in layout, being residential in nature, although some of the properties were utilised for commercial (non-industrial) purposes, including disability / aged care and medical / cosmetic clinics.

Post 1943, the surroundings were heavily urbanised, evolving into a dense, suburban landscape. Major growth phases occurred between 1951 and 1986, with marked increases in residential and commercial density, extensive road paving and reduced open spaces.

4.2 Predicted Subsurface Conditions

The sub-surface conditions were expected to be a layer of filling overlying natural, residual silty clay soils and (weathered) sandstone bedrock. The potential for ASS to be present on the site was low.

Review of investigation conducted nearby was undertaken in EI's (2024d) Preliminary Geotechnical Assessment, groundwater seepage at levels ranging between 2.5 m and 4.5 m below ground level (BGL). The local groundwater flow direction was inferred to be in a southerly direction based on the local topography.

4.3 Potential Contamination Sources

The site had a long (continuous) history of low-density residential use. That, in itself, would suggest that the potential for contamination to be present on the land would likely be low. However, potential sources of possible contamination were identified during the PSI (EI, 2024a) as follows:

- Imported fill materials of unknown origin and quality, used to grade and level the site, especially within hardstand (paved) and aggregate (coarse gravel) areas;
- Surface deposition of hazardous materials, such as ACMs, LBPs and metallic objects, due to weathering of exposed building fabrics;
- Application of pesticides around building (footing) perimeters;
- Leaks from vehicles in the parking areas; and
- Off-site migration from neighbouring (up-gradient) commercial / industrial properties.

4.4 Contaminants of Potential Concern

Based on the potential sources listed in **Section 4.3**, the contaminants of potential concern (CoPCs) for the site were considered to include:

- Priority Metals (PM) - arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc;

- Cyanide;
- Total recoverable hydrocarbons (TRH);
- Volatile organic compounds (VOCs); including the monocyclic aromatic hydrocarbons benzene, toluene, ethylbenzene, xylenes (BTEX);
- Polycyclic aromatic hydrocarbons (PAH);
- Phenols;
- Organochlorine and organophosphorus pesticides (OCP / OPP);
- Polychlorinated biphenyls (PCBs);
- Per- and poly- fluoroalkyl Substances (PFAS); and
- Asbestos.

Note: All other chemicals of concern that are regulated by the EPA in accordance with a control order under the *Environmentally Hazardous Chemicals Act 1985* were not considered to be CoPCs for this site.

4.5 Preliminary Risk Assessment

A preliminary assessment of the potential contamination risks for the site is outlined in **Table 4-1**.

Table 4-1 Assessment of Potential Contamination Risk

Potential Source	Impacted Medium	CoPC	Risk of Contamination
Importation of fill of unknown origin and quality	Soil	PM, cyanide, TRH, BTEX, PAH, OCP, OPP, PCB, PFAS, asbestos	Moderate Filling expected to be present, especially beneath pavements. Site unlikely to have undergone a major cut and fill operation in the past, however.
Hazardous building materials	Near surface soil	PM (lead in particular), PCB, asbestos	Moderate Given the age and appearance of the structures, hazardous building materials expected to present on-site.
Application of pesticides	Near surface soil (building footings)	PM (arsenic and copper), OCP, OPP	Low If present, pesticides are expected to be limited to shallow/ surface soils.
Leaks from vehicles	Near surface soil (parking areas)	PM (lead in particular), TRH, VOC (BTEX)	Low Based on site inspections, the surface pavements varied greatly in condition and some oil-like staining was observed, however it was only minor.
Migration from off-site sources	Soil Groundwater	PM, TRH, VOC (BTEX), PAH, PFAS	Low The local area is mainly comprised of residential properties. On and off-site commercial activities are generally non-industrial.

4.6 Identified Receptors

The following potential receptors of site contamination were identified:

- Current and future site occupiers/users;
- On-site demolition, excavation and construction workers (during future redevelopment);
- Occupants/users of the adjacent land during the proposed demolition, excavation and construction works;
- Future intrusive workers;
- Off-site groundwater users (if present);
- Ecological receptors in areas of exposed soil/landscaping; and
- Down-gradient ecological communities.

A summary of the preliminary CSM, identifying the potential contamination sources, exposure pathways and human and environmental receptors, is presented in **Table 4-2**.

4.7 Data Gaps

Additional intrusive (soil and groundwater) sampling and analysis was considered required, to better assess the potential contamination risks to site receptors. The gaps, or decisions, requiring closure were:

- Are there contaminants present within the site at levels which pose unacceptable risk(s) to the on and/or off-site receptors?
- Are soil and/or groundwater conditions at the site considered suitable for the proposed site redevelopment?

Where soils and/or groundwater were found to be unsuitable, recommendations would have to be made regarding possible management and/or remediation strategies for the site.

Table 4-2 Preliminary Conceptual Site Model

Potential Source	Impacted Medium	Contaminants of Potential Concern	Transport Mechanism	Exposure Pathway	Potential Receptor	Source-Pathway-Receptor (SPR) Linkage
Imported fill of unknown origin and quality	Soil	PM, TRH, BTEX, PAH, OCP, OPP, PFAS, 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	Current and future site users Demolition, excavation and construction workers Adjacent site users Future intrusive workers	Potentially Filling expected to be present, especially beneath pavements
Hazardous building materials			Atmospheric dispersion from soil to outdoor and indoor air spaces			
Application of pesticides			Volatilisation of contamination from soil and diffusion to indoor air spaces	Inhalation of vapours		
Leaks from vehicles			Roots absorption of bioavailable compounds from impacted soils	Biota uptake	Ecological receptors in areas of exposed soil/landscaping	
Off-site migration	Groundwater	PM, TRH, VOC (BTEX), PFAS	Volatilisation of contamination from groundwater to indoor or outdoor air spaces (onsite and offsite)	Inhalation of vapours	Current and future site users Demolition, excavation and construction workers Adjacent site users Future intrusive workers	Potentially Given the long-term commercial use of the area, the migration risk should be considered.
			Disturbance of surface soils during site redevelopment, future site maintenance and future use of the site post redevelopment	Ingestion Dermal contact	Demolition, excavation and construction workers Future intrusive workers Ecological receptors in areas of exposed soil/landscaping	
			Migration of dissolved phase impacts in groundwater via diffusion and advection	Biota uptake	Excelsior Creek Darling Mills Creeks	

Footnotes:

The overall potential for contamination to exist on the site was deemed to be low to moderate

Risks associated with all Source-Pathway-Receptor (SPR) linkages considered to be low, given much of the land will be built and/or paved plus bulk excavation will remove most potential secondary contamination sources

Site workers during demolition, excavation and construction, as well as future building / service maintenance, assumed to use personal protective equipment (PPE), as per SafeWork NSW regulations; hence, mitigation risks associated with potential SPR linkages

5. METHODOLOGY

5.1 Sampling, Analytical and Quality Plan

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

- Data quality objectives (DQOs), including a summary of the objectives of this investigation;
- Investigation methodology, including the media to be sampled, details of analytes and parameters to be monitored and a description of the rationale for 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 EPA (2017) *Guidelines for the NSW Site Auditor Scheme*, DQOs were developed by the EI investigation team, following the NEPM- / NSW EPA-endorsed, seven step process (**Table 5-1**). In doing so, the appropriate levels of data quantity and quality needed for the specific requirements of the project were established.

Table 5-1 Summary of Project Data Quality Objectives

DQO Step	Details
<p>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 conceptual site model.</p>	<p>Site designated for redevelopment, involving the demolition of existing structures, followed by the construction of construction of four, multi-storey, mixed commercial (retail) and residential (apartment) buildings, overlying multi-level basement facilities (Section 1.2).</p> <p>The previous investigation (Section 3) and CSM considered there was potential for contamination. The site thus required detailed investigation of the nature and degree of any soil and groundwater contamination, in support of the development application to Hills Shire Council and enable the developer to meet its obligations under <i>State Environmental Planning Policy 2021</i> and the <i>Contaminated Land Management Act 1997</i>.</p> <p>Analytical results to be compared against criteria relevant to commercial / industrial settings.</p>
<p>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.</p>	<p>The decisions for this DSI concerned the following questions:</p> <ul style="list-style-type: none"> ▪ Has the nature, extent and source of any soil and/or groundwater impacts onsite been adequately evaluated? ▪ What impact do the local (hydro)geological conditions have on the fate and transport of any contaminants that may be present? ▪ Does the level of impact coupled with the fate and transport of potential contaminants represent an unacceptable risk to identified human and/or environmental receptors on- or off- site? ▪ Does the collected data provide sufficient information to allow the 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 determined, or selection and design of an appropriate remedial strategy?
<p>3. Identify Information Inputs (Identify inputs to decision) Identify the information needed to support any decision and specify which inputs require new environmental measurements.</p>	<p>Inputs to the decision making process included:</p> <ul style="list-style-type: none"> ▪ The proposed development plans and land use; ▪ Findings of the EI (2024a) PSI; ▪ National and NSW EPA guidelines endorsed under the <i>NSW Contaminated Land Management Act 1997</i>; ▪ Observations obtained from an intrusive investigation in locations and to depths deemed appropriate for assessment purposes; ▪ Laboratory analysis of selected samples for the CoPCs. <p>At the end of the DSI, a decision had to be made regarding whether the environmental conditions were suitable for the proposed redevelopment, or if additional assessment / remedial works were required to make the site suitable.</p>
<p>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.</p>	<p>Lateral – The investigation was conducted within the cadastral boundaries of the site.</p> <p>Vertical – From the ground surface, down to the deepest depth of borehole drilling (22.44m BGL).</p> <p>Temporal – Results were valid on the day of data / sample collection and remain valid as long as no changes occur on site or contamination (if present) does not migrate on site or on to the site from off-site sources.</p>

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:

- Where individual concentrations of contaminants and/or the 95% Upper Confidence Limit (UCL) of the average concentration for a contaminant of concern exceeds the NEPC (2013) criteria for the land use scenario (as defined in **Section 5.5**) then an unacceptable risk to the end site user is identified; or
- Where individual concentrations of contaminants and the 95% UCL for a contaminant of concern does not exceed the NEPC (2013) criteria for the land use scenario (as defined in **Section 5.5**) then no unacceptable risk to the end site user is identified and the site is suitable for the proposed use.

All data must meet the prescribed DQOs/DQIs to be acceptable for use.

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 EPA guidance, and appropriate indicators of data quality and standard procedures for field sampling and handling. Laboratory test results were accepted if:

- All contracted laboratories were accredited by NATA for the analyses undertaken;
- All laboratory analytical data were within pre-determined assessment criteria, in accordance with laboratory QA/QC policies and DQOs;
- QA/QC results demonstrated acceptable reliability and representativeness of the data set; and
- Laboratory limits of reporting (LOR) were below the adopted assessment criteria for the tested CoPC.

The principal decision rule for the investigation was:

- If the concentrations of chemicals in the soil / groundwater exceeded the adopted assessment criteria, then determine the need to further investigate the extent of impact(s) on-site.
 - Decision criteria for QC measures are defined by the Data Quality Indicators (DQIs) outlined in **Table 5-2**.
-

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 achieve the most resource-effective sampling and analysis design and generate data that satisfied the DQO:

- Fill and natural soil sampling was conducted at 27 boreholes (BH01M, BH02, BH03M, BH04 to BH07, BH08M, and BH09 to BH27);
- In-field screening of soil headspace samples for VOC contamination was carried out with a portable PID;
- Installing groundwater wells in three of the bores (BH01M, BH03M and BH08M);
- Completion of a single GME, utilising the three installed wells;
- Selected, discrete fill / natural soil and groundwater samples were analysed for the CoPCs; and
- Review of the results, to determine if further sampling was warranted (that being where soil concentrations were found to exceed the adopted criteria endorsed by the EPA, relevant to the proposed land use(s)).

During the DSI, written instructions were issued to guide field personnel in the required fieldwork activities. All field works were performed in accordance with EPA guidelines and EI standard operating procedures (SOPs).

5.3 Data Quality Indicators

To ensure that the investigation data were of an acceptable quality, they were assessed against the data quality indicators (DQIs) outlined in **Table 5-2**. Assessment of data quality is presented in **Section 6** and **Appendix H**.

Table 5-2 Data Quality Indicators

QA/QC Component	Data Quality Indicator(s)
<p>Precision A quantitative measure of the variability (or reproducibility) of data</p>	<p>Data precision was assessed by reviewing the performance of blind field duplicate sample sets, through calculation of relative percentage differences (RPD). Precision was deemed acceptable if RPDs were found dominantly to be less than 30%. RPDs that exceeded this range were considered acceptable where:</p> <ul style="list-style-type: none"> ▪ 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%; or ▪ Heterogeneous materials or volatile compounds were encountered.
<p>Accuracy A quantitative measure of the closeness of reported data to the “true” value</p>	<p>Data accuracy was assessed through the analysis of:</p> <ul style="list-style-type: none"> ▪ Split field duplicate sample sets; ▪ Field / method blanks, analysed for the analytes targeted in the primary samples; ▪ Matrix spike sample sets; and ▪ Laboratory control samples.
<p>Representativeness The confidence (expressed qualitatively) that data are representative of each medium present onsite</p>	<p>To ensure the data produced by the laboratory were representative of conditions encountered in the field, the following measures were taken:</p> <ul style="list-style-type: none"> ▪ Blank samples run in parallel with field samples, to confirm there were no unacceptable instances of laboratory artefacts; ▪ Review of RPDs 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/confirm there was minimal opportunity for sample interference or degradation (i.e. volatile loss during transport due to incorrect preservation / transport methods).
<p>Completeness A measure of the amount of useable data from a data collection activity</p>	<p>Analytical data sets were considered complete upon confirmation that:</p> <ul style="list-style-type: none"> ▪ SOPs for sampling protocols were adhered to; and ▪ All chain of custody (COC) documentation was properly completed. <p>It could then be determined whether the generated data were sufficient for the purposes of the land use assessment.</p>
<p>Comparability The confidence that data are equivalent for each sampling event</p>	<p>Given that several data sets from separate sampling episodes were required, issues of comparability were reduced through adherence to SOPs and regulator-endorsed or published guidelines and standards on each data gathering activity.</p> <p>In addition the data were collected by experienced samplers and NATA-accredited laboratory methodologies will be employed.</p>

5.4 Sampling Rationale

With reference to the CSM and DQOs, the soil / groundwater sampling and analytical plans were in accordance with the following rationale:

- Multiple level (fill and natural) soil sampling at twenty-seven (27) boreholes, located in accessible parts of the site, identified as BH01M, BH02, BH03M, BH04 to BH07, BH08M, and BH09 to BH27, in order to characterise *in situ* materials;
- In-field screening of soil headspace samples for VOCs, using a portable PID;
- Installation of three groundwater monitoring wells (BH1M, BH3M and BH8M);

- Completion of a GME, utilising the installed monitoring wells, to assess local groundwater conditions; and
- Laboratory analysis of representative soil and groundwater samples for the CoPCs.

Note: The number of borehole locations (27) complied with the minimum number of points recommended in Table 2 of the EPA (2022a) *Sampling Design Part 1 – Application* for an investigation area of approximately 17,624 m². A systematic (square grid) sampling pattern that enabled the detection of a nominated hotspot of 25-26m diameter with 95% level of confidence was generally adopted, where access was permissible.

5.5 Site Assessment Criteria

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

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

Medium	Guidelines	Rationale
Soil	NEPC (2013) HILs, HSLs, EILs, ESLs and Management Limits	<p>Soil Health-based Investigation Levels (HILs) Based on the proposed development presented in Section 1.2 and Appendix C which involves mix-used commercial and residential buildings, conservative NEPC (2013) <i>HIL-B</i> thresholds for high density residential with minimal opportunities for soil access settings were adopted.</p> <p>Soil Health-based Screening Levels (HSLs) NEPC (2013) <i>HSL-B</i> thresholds for vapour intrusion in high density residential settings (to assess potential human health impacts from residual vapours resulting from petroleum, BTEX and naphthalene).</p> <p>Asbestos criteria</p> <ul style="list-style-type: none"> ▪ No visible asbestos on the soil surface in all areas of the site; ▪ <0.04% w/w bonded ACM in all areas of the site; ▪ <0.001% w/w friable ACM in all areas of the site. <p>Ecological Investigation / Screening Levels (EILs / ESLs) NEPC (2013) EILs/ESLs for urban residential and public open space settings were adopted, to assess potential impacts in proposed communal open space areas. EILs / ESLs were considered relevant for any retained soils in the top 2m (root zone).</p> <p>Management Limits for Petroleum Hydrocarbons Where the HSLs and ESLs for petroleum hydrocarbons were exceeded, sample results were also assessed against the NEPC (2013) <i>Management Limits</i> for the F1-F4 TRH fractions, for residential, parkland and public open space setting. The management limits were adopted to assess propensity for phase-separated hydrocarbons, fire and explosive hazards and adverse effects on buried infrastructure.</p>
	CRC CARE (2017) high reliability ecological criteria	<p>High reliability ecological criterion for Benzo(α)pyrene The CRC Care (2017) high reliability ecological guideline for urban residential and public open space settings was used to assess protection of terrestrial ecosystems against benzo(α)pyrene.</p>

Medium	Guidelines	Rationale
Groundwater	ANZG (2018) GILs for Freshwater and NEPC (2013) Groundwater HSLs	<p>Groundwater Investigation Levels (GILs) for Freshwater</p> <p>ANZG (2018) provides GILs for typical, slightly-moderately disturbed freshwater ecosystems, including Trigger Values for 95% level of protection of aquatic ecosystems; however, the 99% values were applied for the bio-accumulative analytes. Freshwater criteria were adopted based on the nearby surface water receptors (Excelsior and Darling Mills Creeks).</p> <p>Health-based Screening Levels (HSLs)</p> <p>The NEPC (2013) groundwater <i>HSL-B</i> thresholds for vapour intrusion in high density residential settings were applied to assess potential human health impacts from residual vapours resulting from petroleum, BTEX and naphthalene impacts.</p>
	NHMRC (2022) Recreational Criteria	<p>Recreational Criteria</p> <p>NHMRC (2022) Recreational Criteria were adopted; where no criterion was available, the lowest NHMRC (2022) Drinking Water threshold was assumed (multiplied by a factor of 10).</p> <p>For PFAS, lead and manganese, updated criteria (NHMRC, 2025) were adopted.</p>
	HEPA (2025) ecological water quality guideline values for freshwater ecosystems	<p>Groundwater Investigation Levels for PFAS</p> <p>Values from the PFAS National Environmental Management Plan for slightly-moderately disturbed freshwater ecosystems were adopted for PFASs in groundwater.</p>

5.6 Soil Sampling Methodology

The soil sampling works conducted at the site are described in **Table 5-4**. Sampling locations are illustrated in **Figure 2, Appendix A**.

Table 5-4 Summary of Soil Sampling Methodology

Activity/Item	Details
Fieldwork	Conducted from 10 to 19 June 2025. Comprised 27 borehole locations in accessible parts of the site. Prior to drilling, locations were surveyed by a contracted services locator, with assistance from BYDA plans.
Drilling Method	Test bores BH10, BH12, BH13, BH15 to BH18, BH20 to BH22, BH24 and BH25 were advanced by hand auger. Test bores BH11, BH19, BH23, BH26 and BH27 were advanced with a ute-mounted drilling rig. The remaining bores were drilled using a mechanical drilling rig, fitted with solid flight augers. The maximum drilling depth was 22.44 BGL. Borehole logs are presented in Appendix D .
Soil Logging	Drilled / examined soils were logged in the field in accordance with Australian Standard AS1726-2017. Soil was evaluated on a qualitative basis for visual and olfactory signs of contamination. Soil descriptions are included in the borehole logs (Appendix D).
Soil Sampling	Soil samples were collected by dry grab method from the auger flights (the sampler wearing dedicated nitrile gloves) and placed into laboratory-supplied, acid-washed, solvent-rinsed glass jars and zip-lock, plastic bags (the latter for in-field VOC/PID screening and asbestos samples). Blind and split field duplicates were prepared by collecting a bulk amount of soil and dividing (post mixing) into three separate glass jars.
Soil Vapour Screening	Screening for VOC in soil headspace samples was conducted using a pre-calibrated PID with a 10.6mV ionisation lamp. The calibration certificate for the PID is presented in Appendix E .
Decontamination	Nitrile sampling gloves were replaced between each sampling location. The auger flights and bucket were cleaned of all residual soil between each borehole

Activity/Item	Details
	location by washing with a mixture of Alconox and potable water (1/20) until free of all residual materials, then rinsed with water.
Management of Soil Cuttings	Soil cuttings were used to backfill the completed boreholes.
Sample Preservation and Transport	<p>Sealed sample containers were stored in an insulated chilled chest (with frozen ice packs), whilst on-site and in transit to the contracted laboratories.</p> <p>Chilled sample chests were transported to the primary laboratory (SGS Australia Pty Ltd (SGS)) using chain-of-custody (COC) procedures. Signed COC certificates and sample receipt advice (SRA) were provided by SGS for confirmation purposes (Appendix F).</p> <p>Split (inter-laboratory) soil field duplicates were submitted to Envirolab Services Pty Ltd (Envirolab; the secondary laboratory) under strict COC conditions. Signed COC certificates and SRA were provided by Envirolab for confirmation purposes (Appendix F).</p>
Laboratory Analysis and Quality Control	<p>Soil samples were analysed by SGS and Envirolab for the CoPCs. All samples were analysed within the required holding period, as documented in the corresponding laboratory reports (Appendix G).</p> <p>In addition to the split (inter-laboratory) field duplicates (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.</p>

5.7 Groundwater Sampling Methodology

The groundwater sampling works are described in **Table 5-5**. The monitoring well locations are illustrated in **Figure 2, Appendix A**.

Table 5-5 Summary of Groundwater Sampling Methodology

Activity/Item	Details
Fieldwork	<p>Three groundwater monitoring wells (BH01M, BH03M and BH08M) were installed on 12, 16 and 17 June 2025.</p> <p>A single GME, involving water level gauging, well purging, field testing and groundwater sampling, was completed on 7 July 2025.</p>
Well Construction	<p>Well construction was in general accordance with the standards described in NUDLC (2012) and involved the following:</p> <ul style="list-style-type: none"> ▪ 50mm, Class 18 uPVC, threaded, machine-slotted screen and casing; ▪ Base and top of each well was sealed with a uPVC cap; ▪ Annular, graded sand filter was used to approximately 300 mm above top of screen interval; ▪ Granular bentonite was applied above annular filter to seal the screened interval; ▪ Cuttings backfilled to just below ground level; and ▪ Surface completion comprised of a stick-up section of pipe, a plastic J-cap closing the well and a gatic cover at ground level. <p>Head elevations at each monitoring well were extrapolated using the spot elevations provided on survey plans provided by the client. Well construction details are provided in Table 7-3.</p>
Well Development	<p>Well development was conducted immediately after installation. The development process involved the removal of water and accumulated sediment within the full length of the water column using a dedicated, high density polyethylene (HDPE), disposable bailer. Bailing was continued until no further reduction in suspended sediment was observed (i.e. after removal of several well volumes of water).</p>
Well Gauging	<p>Monitoring wells were gauged to determine SWL prior to groundwater purging and sampling. Gauging was conducted with a water/oil interface probe.</p>
Well Purging, Field Testing and	<p>Groundwater from BH03M was purged and sampled by a low-flow / minimal draw-down method, using a peristaltic pump with dedicated tubing. Groundwater from BH01M and BH08M</p>

Activity/Item	Details
Sampling	<p>was collected using a dedicated disposable bailer due to equipment malfunction.</p> <p>During the purging process, water was continuously measured for field parameters (temperature (T), electrical conductivity (EC), reduction-oxidation potential (Redox), dissolved oxygen (DO) and pH) using a <i>Hanna Multi Parameter 9829</i> positioned within an open flow-through cell. Once water quality parameters stabilised (i.e. within $\pm 10\%$ for DO, $\pm 3\%$ for EC, ± 0.05 for pH, $\pm 0.2^\circ$ for temperature and $\pm 20\text{mV}$ for redox), groundwater sampling was undertaken, by diverting the outlet of the bladder pump (immediately before the flow cell) to the sampling vials and bottles.</p> <p>Groundwater samples from BH01M and BH08M were directly transferred from the dedicated bailer into the laboratory supplied sampling containers. Field parameters were recorded.</p> <p>Refer to Appendix E E for all field data sheets.</p>
Decontamination Procedure	<p>Sampling equipment (interface probe and water quality kit probes) were decontaminated between uses by washing in a solution of potable water and PFAS-free detergent, then rinsed with potable water.</p> <p>Decontamination was not required for the sampling pump and bailer, as dedicated disposal bladders, tubing and bailers were used for sampling at each individual well.</p> <p>Dedicated gloves were used for the collection of each sample.</p>
Sample Containers and Preservation	<p>Sample containers were supplied by the laboratory with the following preservatives:</p> <ul style="list-style-type: none"> ▪ one, 1 litre amber glass, acid-washed and solvent-rinsed bottle; ▪ two, 40ml glass vials, pre-preserved with dilute hydrochloric acid, Teflon-sealed; ▪ one, 250mL, HDPE bottle, pre-preserved with dilute nitric acid (1mL); ▪ one, 150mL, black HDPE bottle for cyanide, pre-preserved with sodium hydroxide ;and ▪ one, PFAS bottle container. <p>Samples for metals analysis were field-filtered using 0.45 μm pore-size membranes.</p> <p>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.</p>
Sample Transport	<p>After sampling, the ice brick filled chests were transported to SGS 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 F.</p> <p>A split (inter-laboratory) field duplicate was submitted to Envirolab under strict COC procedures. Signed COC certificates and sample receipt documentation were provided by Envirolab for contamination purposes (Appendix F).</p>
Laboratory Analysis and Quality Control	<p>Groundwater samples were analysed by SGS and Envirolab for the CoPCs. All samples were analysed within the required holding period, as documented in the corresponding laboratory reports (Appendix G).</p> <p>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.</p>

6. DATA QUALITY ASSESSMENT

The assessment of data quality is defined as the scientific and statistical evaluation of environmental results to determine if 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** and discussed in detail in **Appendix H**.

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 Assurance Process

Stage	Control		Conformance [Yes, Part, No]	Report Section(s)
Preliminaries	DQOs and DQIs established	Yes	See Sections 5.2 and 5.3	
Field Work	Suitable documentation of fieldwork observations including borehole logs and field notes.		Yes	See Appendices D and E
Sampling Plan	Use of relevant and appropriate sampling plan (density, type, and location)		Yes	See Section 5.4
	All media sampled and duplicates collected		Yes	See Appendices E, G, H
	Use of approved and appropriate sampling methods		Yes	See Sections 5.6 and 5.7
	Selection of soil samples according to field PID readings (where VOCs are present)		Yes	See Sections 5.6 and 7.1
	Preservation and storage of samples upon collection and during transport to laboratory		Yes	See Sections 5.6 and 5.7
	Appropriate field rinsate and trip blanks taken		Yes	See Appendices F, G, H
	Completed field and analytical laboratory sample COC procedures and documentation		Yes	See Appendix F
Laboratory	Sample holding times within acceptable limits		Yes	See Appendices F, G, H, I
	Use of appropriate analytical procedures and NATA-accredited laboratories		Yes	See Appendices F, G, H, I
	LOR low enough to meet adopted criteria		Yes	See Appendices F, G, H, I
	Laboratory blanks		Yes	See Appendices F, G, H, I
	Laboratory duplicates		Yes	See Appendices F, G, H, I
	Matrix spikes		Yes	See Appendices F, G, H, I
	Surrogates		Yes	See Appendices F, G, H, I
	Analytical results for replicated samples, including field and laboratory duplicates, expressed as RPDs		Yes	See Appendices F, G, H, 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 E, G, H	
Reporting	Report reviewed by senior staff to assess project meets NSW EPA guidelines and objectives		Yes	See Document Control

7. RESULTS

7.1 Soil

Sub-Surface Conditions

Based on the borehole logs (and excluding any hardstand), the sub-surface of the site was generalised as a layer of shallow sandy silt filling (0.1 to 1m thickness), overlying natural (residual) clay (2.14 to 5.05m thickness), with bedrock (shale, siltstone, laminite and sandstone) occurring from 1.1 to 5.3 mBGL onwards.

More details encountered during the soil investigation by EI are provided in **Table 7-1** and borehole logs are presented in **Appendix E**.

Table 7-1 Generalised Sub-Surface Profile

Unit	Description	Depth range to top of unit (mBGL)	Indicative thickness (m)	Borehole(s) Encountered
PAVEMENT	CONCRETE	0.0 – 0.1	0.1 – 0.2	BH03M, BH04, BH08M
	BRICK	0.0	0.1	BH06, BH08M
FILL	Sandy SILT: dark brown, low to medium plasticity, fine-grained sand, minor sub-angular gravels, rootlets observed. No odour or staining noted. Anthropogenic materials (e.g. brick and metal fragments) were observed in BH13. Slag was observed in BH15.	0.0 – 0.2	0.1 – 1.0	BH01M, BH02, BH03M, BH04 to BH07, BH08M, BH09 to BH13, BH15 to BH27
NATURAL (RESIDUAL)	CLAY: reddish brown to brown mottled grey, high plasticity. No odour or staining noted.	0.1 – 1.0	2.1 – 5.05	BH01M, BH02, BH03M, BH04 to BH07, BH08M, BH09 to BH12, BH15, BH17 to BH24, BH26, BH27
BEDROCK	SHALE: brown to grey	3.1 – 5.3	0.8 – 2.2	BH01M, BH02, BH03M, BH04, BH05, BH07
	SILTSTONE: grey to dark grey with thinly bedded laminations	4.13 – 5.4	5.48 – 11.2	BH01M, BH02, BH04 to BH07
	LAMINITE: fine-grained sandstone, pale grey with grey siltstone bedding	6.7 – 16.6	1.68 – 5.5	BH01M, BH02, BH03M, BH05 to BH07, BH08M, BH09
	SANDSTONE: fine-grained, pale grey	8.38 – 19.75	Unknown	BH01M, BH03M

Field Observations and PID Results

Soil samples were collected from the test bores at various depths ranging between 0.0 to 0.8 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, asbestos fragments, ash, and charcoal) and the following observations were noted:

- No odour or soil staining was noted in any of the examined soils.
- Fragments of potential ACM was not observed in any of the examined soils.
- Inclusion of ash and/or slag was observed in the fill layer of BH15.
- VOC concentrations in soil headspace samples were screened in-field using a portable PID. All VOC concentrations were low (ranging from 0.0 to 4.5 parts per million (ppm)).
- No evidence of actual or potential ASS was encountered in any of the examined soils.
- Groundwater seepage was encountered in BH01M (at 4 mBGL), BH03M (at 5.3 mBGL, and BH08M (at 4.5 mBGL). Sheen or odours were not observed in purged groundwater.

Laboratory Analytical Results

A summary of the laboratory analytical results for the tested (representative) soil samples is presented in **Table 7-2**. More detailed tabulation is presented in **Table 1, Appendix B**.

All results were found to comply with the adopted SILs for high density residential settings.

Table 7-2 Summary of Soil Analytical Results

Number of Primary Samples	Analyte	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	Samples Exceeding SILs
Priority Metals (total)				
40	Arsenic	4	26	None
40	Cadmium	<0.3	0.5	None
40	Chromium	4.1	18	None
40	Copper	9.3	45	None
40	Lead	15	120	None
40	Mercury	<0.05	0.1	None
40	Nickel	<0.5	8.7	None
40	Zinc	6.7	250	None
PAHs				
40	Naphthalene	<0.1	<0.1	None
40	Benzo(α)pyrene	<0.1	0.4	None
40	Carcinogenic PAHs (as B(α)P TEQ)	<0.3	0.4	None
40	Total PAHs	<0.8	2	None
VOCs (including BTEX) and TRHs				
40	Total VOCs	<24	<24	None
40	Benzene	<0.1	<0.1	None
40	Toluene	<0.1	<0.1	None
40	Ethyl benzene	<0.1	<0.1	None
40	Total Xylenes	<0.3	<0.3	None
40	TRH – F1	<25	<25	None
40	TRH – F2	<25	29	None
40	TRH – F3	<90	170	None
40	TRH – F4	<120	<120	None
Pesticides				
27	Total OCPs	<1	<1	None
27	Total OPPs	<1.7	<1.7	None
PCB				
27	Total PCBs	<0.1	<0.1	None
Asbestos				
27	Asbestos	Not detected	Not detected	None

7.2 Groundwater

Monitoring Well Construction

Construction details for the groundwater monitoring wells are summarised in **Table 7-3**.

Table 7-3 Monitoring Well Construction Details

Well	Well Depth (m BGL)	Top of Well Casing (m BGL)	Screen Interval (m BGL)	Groundwater Seepage (m BGL)	Lithology Screened	RL ¹ (m AHD)
BH01M	19.2	0.1	13.2 – 19.2	4.0	Siltstone / Laminite	130.8
BH03M	10.9	0.1	7.9 – 10.9	5.3	Sandstone	122.6
BH08M	5.5	0.1	2.5 – 5.5	4.5	Silty clay	117.5

Footnote:

¹ The relative level (RL; m AHD) corresponds to the ground surface at the well location.

Field Observations

Field data from the groundwater monitoring wells are presented in **Table 7-4**. Field data sheets are attached in **Appendix F**. Samples were evaluated on the basis of odour and visual signs of contamination, with the following observations noted:

- Groundwater was found to be clear / light grey in colour, with low to medium turbidity;
- No suspicious odour was detected in any of the groundwater wells; and
- No sheen was observed on the sampled groundwater.

The field data (**Table 7-4**) indicated that the groundwater was near neutral to slightly alkaline and marginal to brackish. Based on the SWL data (extrapolated to relative levels in metres AHD), the local hydraulic gradient was inferred to be southerly, consistent with the surface topography (**Table 2-3**).

Table 7-4 Groundwater Field Data

Well	SWL (m BTOC ¹)	SWL (m BGL)	SWL ² (m AHD)	pH	EC (µS/cm)	T (°C)	Redox ³ (mV)
BH01M	5.52	5.62	125.18	9.23	1065	15.28	222.6
BH03M	2.28	2.38	120.22	6.39	1352	17.34	225.7
BH08M	1.43	1.53	115.97	7.56	1511	13.06	224.9

Footnotes:

¹ m BTOC denotes meters below top of well casing.

² SWL (in metres AHD) calculated by subtracting the SWL in metres BGL from the RL of the ground surface at the well location.

³ Redox readings were adjusted to the Standard Hydrogen Electrode by adding 205mV to the field electrode potential.

⁴ Dissolved oxygen (DO) was not recorded due to equipment malfunction.

Laboratory Analytical Results

A summary of the laboratory analytical results for the groundwater samples is presented in **Table 7-2**. More detailed tabulation is presented in **Table T2, Appendix B**.

All results were found to comply with the adopted GILs, except for dissolved copper, nickel and zinc. Heavy metals in groundwater are common in urbanised areas of Sydney, including the suburb of Castle Hill. It was assumed that these metal levels do not pose an immediate threat to human health or the environment, being representative of urban background groundwater conditions.

Table 7-5 Summary of Groundwater Analytical Results

Number of Primary Samples	Analyte	Minimum Concentration (µg/L)	Maximum Concentration (µg/L)	Sample(s) Exceeding GILs
Priority Metals (total dissolved)				
3	Arsenic	1	2	None
3	Cadmium	<0.1	<0.1	None
3	Chromium	<1	1	None
3	Copper	<1	6	<u>ANZG (2018) 1.4 µg/L</u> BH03M (2 µg/L) and BH08M (6 µg/L)
3	Lead	<1	<1	None
3	Mercury	<0.1	<0.1	None
3	Nickel	5	24	<u>ANZG (2018) 11 µg/L</u> BH03M (24 µg/L) and BH08M (18 µg/L)
3	Zinc	<5	73	<u>ANZG (2018) 8 µg/L</u> BH03M (39 µg/L) and BH08M (73 µg/L)
PAHs				
3	Naphthalene	<0.1	3	None
3	Benzo(α)pyrene	<0.1	<0.1	None
3	Total PAHs	<1	<1	None
VOCs (including BTEX) and TRHs				
3	Total VOCs	<10	18	None
3	Benzene	<0.5	<0.5	None
3	Toluene	<0.5	1.3	None
3	Ethyl benzene	<0.5	<0.5	None
3	o-Xylene	<0.5	2	None
3	m + p-Xylenes	<1	0.6	None
3	F1 – TRHs	<50	<50	None
3	F2 – TRHs	<60	84	None
3	F3 – TRHs	<500	<500	None
3	F4 – TRHs	<500	<500	None
Phenols				
3	Total phenols	<50	<50	None
Cyanide				
3	Total cyanide	<4	<4	None
PFAS				
3	PFOS	<0.01	<0.01	None
3	PFOS + PFHxS	<0.01	<0.01	None
3	PFOA	<0.01	<0.01	None

8. SITE CHARACTERISATION

8.1 Subsurface Conditions

Based on the borehole logs (and excluding any hardstand; **Appendix E**), the sub-surface of the site was generalised as a layer of shallow sandy silt filling (0.1 to 1m thickness), overlying natural (residual) clay (2.14 to 5.05m thickness), with bedrock (shale, siltstone, laminite and sandstone) occurring from 1.1 to 5.3 mBGL onwards. The potential for ASS to be present on the site was low.

8.2 Soil Impacts

Laboratory analytical results for the representative fill and natural soil samples were found to comply with the adopted SILs applicable to low to high density residential settings.

8.3 Groundwater Impacts

From the GME of 7 July 2025, the depth to groundwater was 1.43 – 5.52 mBGL (115.97 – 236.29 mAHD), with the inferred hydraulic gradient being southerly. Local groundwater conditions were near neutral to slightly alkaline (pH: 6.39 – 9.23), and marginal to brackish (EC: 1065 - 1511 $\mu\text{S}/\text{cm}$).

No sheen or suspicious odours were detected in the monitoring wells. Analysis of representative samples identified elevated levels of dissolved copper (2 – 6 $\mu\text{g}/\text{L}$), nickel (18 - 24 $\mu\text{g}/\text{L}$) and zinc (37 – 73 $\mu\text{g}/\text{L}$). The heavy metal concentrations were considered typical of urban environments, indicative of their natural (background) conditions, and did not pose a significant risk to any of the identified receptors (**Section 4.6**). Local soils were not considered to be the source of metal impacts, given the low levels in the tested, representative (fill and natural) samples. All other CoPCs were reported at concentrations below the adopted GILs or laboratory LORs.

8.4 Review of Conceptual Site Model

The CSM discussed in **Section 4** was considered to appropriately identify potential contamination sources, migration mechanisms and exposure pathways, as well as potential on-site and off-site receptors. A revised CSM, taking into account the DSI findings, is presented in **Table 8-1**. This model remains valid for the proposed (low to high-density residential) development.

Table 8-1 Revised Conceptual Site Model

Potential Source	Impacted Medium	CoPC	Transport Mechanism	Exposure Pathway	Potential Receptor	Source-Pathway-Receptor (SPR) Linkage	
Imported fill of unknown origin and quality	Soil	PM, TRH, BTEX, PAH, OCP, OPP, PFAS, 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	Current and future site users Demolition, excavation and construction workers Adjacent site users Future intrusive workers	Low to moderate Laboratory results for the representative fill and natural soil samples were found to comply with the adopted SILs. However, sampling locations were limited to the accessible area of the site. Data gaps still exist within the inaccessible areas. Additionally, given the age and appearance of the structures, there is still potential for hazardous building materials to present.	
Hazardous building materials			Atmospheric dispersion from soil to outdoor and indoor air spaces				
Application of pesticides			Volatilisation of contamination from soil and diffusion to indoor air spaces	Inhalation of vapours			
Leaks from vehicles			Roots absorption of bioavailable compounds from impacted soils	Biota uptake			Ecological receptors in areas of exposed soil/landscaping
Off-site migration	Groundwater	PM, TRH, VOC (BTEX), PFAS	Volatilisation of contamination from groundwater to indoor or outdoor air spaces (onsite and offsite)	Inhalation of vapours	Current and future site users Demolition, excavation and construction workers Adjacent site users Future intrusive workers	Low Metal exceedances limited to copper, nickel and zinc, the concentrations for which were consistent with natural (background) levels for urban areas. No organic compound exceedances identified.	
			Disturbance of surface soils during site redevelopment, future site maintenance and future use of the site post redevelopment	Ingestion Dermal contact			Demolition, excavation and construction workers Future intrusive workers Ecological receptors in areas of exposed soil/landscaping
			Migration of dissolved phase impacts in groundwater via diffusion and advection	Biota uptake			Excelsior Creek Darling Mills Creeks

Footnote: The overall potential for contamination to exist on the site was deemed to be low to moderate

Risks associated with all Source-Pathway-Receptor (SPR) linkages considered to be low, given much of the land was built and/or paved.

Site workers during demolition, excavation and construction, as well as future building / service maintenance, assumed to use personal protective equipment (PPE), as per SafeWork NSW regulations; hence, eliminating SPR linkage.

9. CONCLUSIONS

The property identified as 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW was the subject of a DSI, conducted in order to assess the nature and degree of potential on-site contamination. The key findings of this DSI were as follows:

- The history review and walkover inspections indicated that the site had been used for low-density residential purposes since 1943. Prior to that time, the land was vacant (undeveloped / vegetated), with no evidence of market/orchard gardening having taking place. From 1986, the site remained essentially the same in layout, being residential in nature, although some of the properties were utilised for commercial (non-industrial) purposes, including disability/aged care and medical/cosmetic clinics.
- The site and surrounding lands within close proximity ($\leq 250\text{m}$ radius) were free of statutory notices and licensing agreements issued under the *Contaminated Land Management Act 1997* and *Protection of the Environment Operations Act 1997*. The site was not included on the *List of NSW Contaminated Sites Notified to the EPA*.
- No visual or olfactory indicators of gross contamination (e.g. suspicious odours, staining, stressed or dead vegetation, potential asbestos containing materials) were observed during the inspections. Visual indication of site contamination was limited to observation of ash/slag within the fill material at sampling locations BH15, located at the north-eastern boundary of the site.
- No visual evidence of infrastructure associated with a UPSS was observed on the site. No ASTs were observed to be present.
- Excluding any hardstand, the sub-surface of the site was generalised as a layer of shallow sandy silt filling (0.1 to 1.0 m thickness), overlying natural (residual) clay (2.14 to 5.05 m thickness), with bedrock (shale, siltstone, laminite and sandstone) occurring from 1.1 to 5.3 mBGL onwards. The potential for ASS to be present was considered to be low.
- Laboratory analytical results for the representative fill and natural soil samples were found to comply with the adopted SILs applicable to low to high-density residential settings.
- The depth to groundwater was 1.43 – 5.52 mBGL (115.97 – 236.29 mAHD), with the inferred hydraulic gradient being southerly. Local groundwater conditions were near neutral to slightly alkaline (pH: 6.39 – 9.23), and marginal to brackish (EC: 1065 - 1511 $\mu\text{S}/\text{cm}$).
- Laboratory analytical results for the representative groundwater samples were found to comply with the adopted GILs, except for dissolved copper (2 – 6 $\mu\text{g}/\text{L}$), nickel (18 – 24 $\mu\text{g}/\text{L}$) and zinc (37 – 73 $\mu\text{g}/\text{L}$). The heavy metal concentrations were considered typical of urban environments, indicative of natural (background) conditions, and to not pose a significant risk to the identified site receptors.

Based on the findings of this DSI, and with consideration of EI's *Statement of Limitations (Section 11)*, it is considered that the site can be made suitable for the proposed mixed commercial and high-density residential redevelopment, subject to the successful implementation of the recommendations provided in **Section 10**.

10. RECOMMENDATIONS

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

- During site demolition all identified hazardous materials in building structures must be appropriately managed during future demolition works, to maintain worker health and safety and prevent the spread of hazardous substances onto the site surface.
 - 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.
 - Where clearance inspection indicates hazardous materials remain on the site, further removal and re-clearance inspection, must be undertaken.
- Following building/pavement demolition and removal of associated wastes, an inspection of the exposed soil surface should be performed by a suitably qualified environmental consultant. The current building footprints are to be targeted during this inspection, to ascertain whether further investigation is warranted.
- Under the proposed development (**Section 1.2** and **Appendix C**), bulk excavation of site soils will be conducted, in order to construct the multi-level basements. All soil materials that are designated for off-site disposal must be classified in accordance with the EPA (2014) *Waste Classification Guidelines*.
- Once appropriately classified, all waste materials are to be transported to NSW EPA-licensed waste facilities by the appointed waste contractors. All tipping dockets supplied by the landfill companies are to be retained, to confirm the appropriate (lawful) disposal of wastes.
- Any soil or landscaping materials imported to the site must be classified as virgin excavated natural material (VENM) or have a classification certificate indicating that it is suitable for the proposed land use, prior to importation.

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

Should the proposed development design change significantly, or the site be subject to significant redevelopment as part of any future Development Applications (DAs), additional investigation may be required to assess potential contamination risks.

11. STATEMENT OF LIMITATIONS

This report has been prepared for the exclusive use of Alton Property Group Pty Ltd Pty Ltd, whom is 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 Alton Property Group Pty Ltd Pty Ltd.

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 program.

While normal assessments of data reliability have been made, EI assumes no responsibility or liability for errors in any data obtained from regulatory agencies (e.g. Council, 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 investigation.

EI's assessment is necessarily based upon the results of the site investigation and the restricted program of surface and subsurface sampling, screening and chemical testing which was set out in the project 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 Alton Property Group Pty Ltd 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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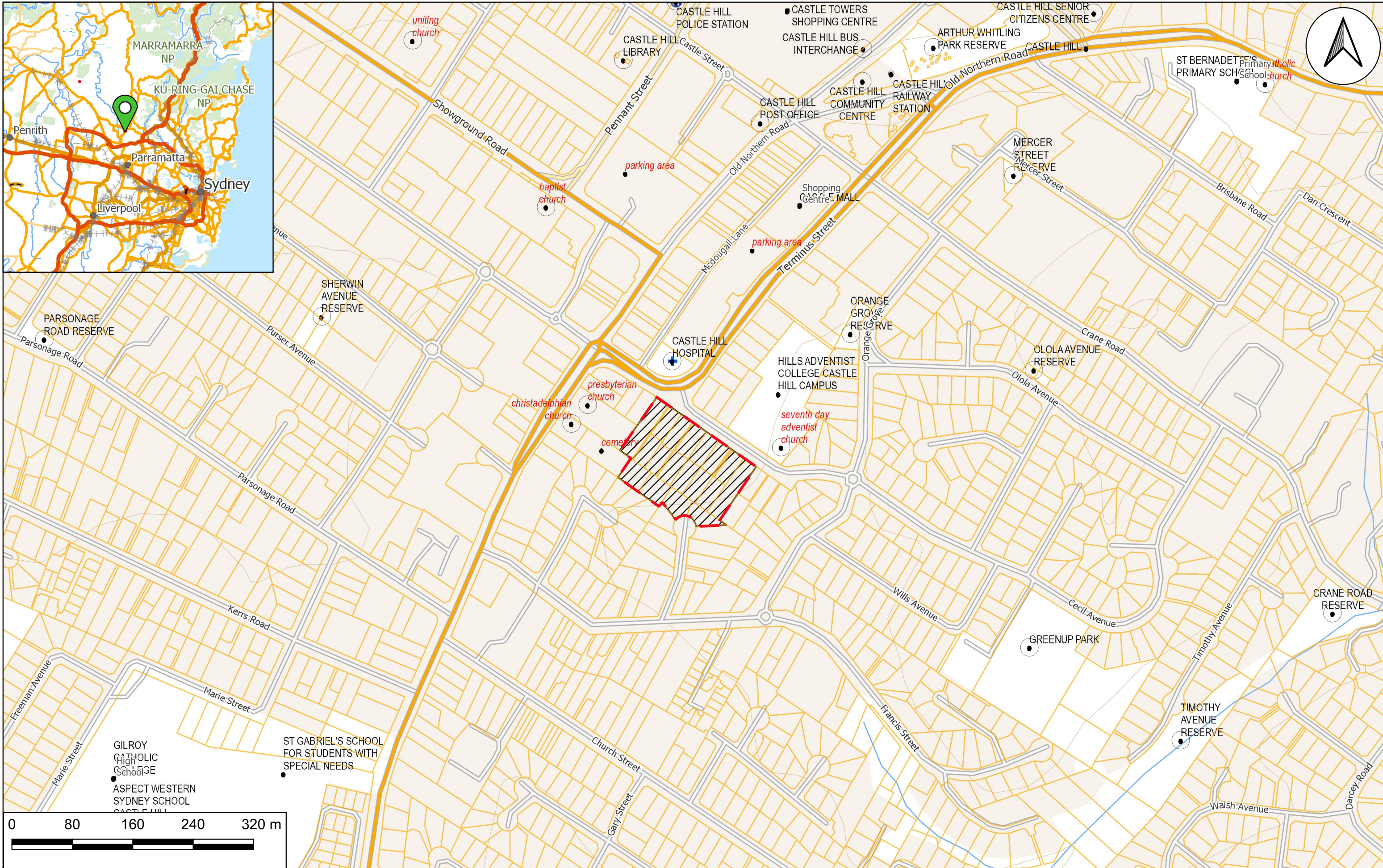
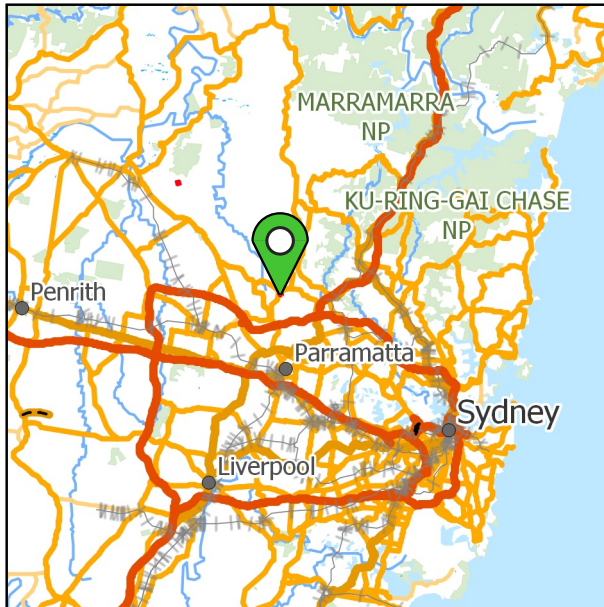
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Appendix A – Figures

1. Site Locality Plan

2. Sampling Location Plan



LEGEND. Note: All locations are approximate

 Site Boundary

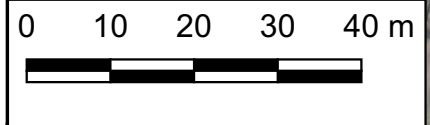


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 Detailed Site Investigation
 93-107 Cecil Avenue & 9-10 Roger Avenue,
 Castle Hill, NSW
 Site Locality Plan

Figure:
1
 Project: E26536.E02



Map Source: NSW SIXMaps, accessed 04/07/2025

LEGEND Note: Areas are approximate

- Site Boundary
- basement boundary
- Borehole Locations
- Groundwater Monitoring Well Locations
- Hand Auger Locations

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Alton Property Group

Detailed Site Investigation

Castle Hill NSW

Site Sampling Location

Figure:	2
Project:	E26536.E02.Rev1

Appendix B – Tables

Table 1. Summary of Soil Analytical Results

Table 2. Summary of Groundwater Analytical Results

Table 3. Summary of QA/QC Sample Analytical Results

Table 1 – Summary of Soil Test Results

Sample ID	Soil Layer	Sampling Date	Priority Metals								PAHs			BTEX					TRH				Pesticides		Total VOCs	Total PCBs	Asbestos				
			As	Cd	Cr [#]	Cu	Pb	Hg	Ni	Zn	Carcinogenic PAHs (as B[a]P TEQ)	Benzoflthyrene	Total PAHs	Naphthalene	Benzene	Toluene	Ethylbenzene	m/p-xylene	o-xylene	Total Xylenes	F1	F2	F3	F4				Total OCPs	Total OPPs		
BH01M_0.3-0.5	FILL	17/6/2025	6	<0.3	11	14	26	<0.05	4.0	19.0	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	>25	>90	>120	<0.1	<1.7	<24	<0.1	No			
BH02_0.1-0.2	FILL	10/6/2025	6	<0.3	12	15	64	<0.05	5.1	26	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH03_0.4-0.5	NATURAL	10/6/2025	7	<0.3	13	14	15	<0.05	2.5	11	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	28	>90	<120	NA	NA	<24	NA	NA			
BH03_0.3-5	FILL	12/6/2025	9	<0.3	12	15	30	<0.05	4.4	54	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	>25	>90	>120	<0.1	<1.7	<24	<0.1	No			
BH04_0.3-0.5	FILL	18/6/2025	7	<0.3	13	16	19	<0.05	3.0	9.9	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH05_0.1-0.4	FILL	16/6/2025	26	0.3	18	24	41	<0.05	7.4	51.0	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH06_0.4-0.5	FILL	13/6/2025	4	<0.3	12	19	17	<0.05	3.9	31	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH06_1.0-1.1	NATURAL	13/6/2025	6	<0.3	13	29	21	<0.05	2.3	33	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	NA	NA	<24	NA	NA			
BH07_0.3-0.5	FILL	18/6/2025	6	<0.3	14	22	31	<0.05	7.2	68.0	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH07_0.6-0.8	NATURAL	18/6/2025	7	<0.3	10	14	17	<0.05	2.7	17.0	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	NA	NA	<24	NA	NA			
BH08M_0.3-0.5	FILL	16/6/2025	6	<0.3	12	9	17	<0.05	1.0	6.7	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH08M_0.8-1.0	NATURAL	16/6/2025	5	<0.3	5.6	13	19	<0.05	<0.5	6.8	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	NA	NA	<24	NA	NA			
BH09_0.3-0.5	FILL	11/6/2025	7	<0.3	13	15	31	0.09	4.7	32	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH09_1.0-1.2	NATURAL	11/6/2025	5	<0.3	13	30	23	<0.05	3.4	36	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	NA	NA	<24	NA	NA			
BH10_0.1-0.2	FILL	10/6/2025	4	<0.3	12	15	32	<0.05	5.1	49	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH10_0.7-0.8	NATURAL	10/6/2025	4	<0.3	13	24	23	<0.05	2.3	15	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	NA	NA	<24	NA	NA			
BH11_0.1-0.2	FILL	10/6/2025	7	<0.3	10	17	49	<0.05	3	37	0.4	0.2	2.2	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH11_0.6-0.7	NATURAL	10/6/2025	12	<0.3	6	24	18	<0.05	3.1	25	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	NA	NA	<24	NA	NA			
BH12_0.1-0.2	FILL	10/6/2025	7	<0.3	11	15	52	<0.05	5.1	47	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH13_0.2-0.3	FILL	10/6/2025	6	<0.3	12	27	28	<0.05	8.7	53	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH14_0.4-0.5	FILL	13/6/2025	6	0.3	9.6	42	60	0.06	5.2	250	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH14_0.9-1.0	NATURAL	13/6/2025	5	<0.3	10	45	30	<0.05	8.4	220	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	NA	NA	<24	NA	NA			
BH15_0.1-0.2	FILL	11/6/2025	6	0.3	11	26	120	0.1	5.0	140	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH15_0.5-0.6	NATURAL	11/6/2025	6	<0.3	16	14	20	<0.05	1.9	11	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	NA	NA	<24	NA	NA			
BH16_0.2-0.3	FILL	10/6/2025	6	<0.3	13	20	44	<0.05	4.8	43	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH17_0.1-0.2	FILL	10/6/2025	5	0.5	14	29	79	<0.05	5.1	59	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH17_0.6-0.7	NATURAL	10/6/2025	5	<0.3	15	17	22	<0.05	3.2	14	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	NA	NA	<24	NA	NA			
BH18_0.1-0.2	FILL	10/6/2025	7	<0.3	15	27	45	<0.05	5.4	160	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH19_0.2-0.3	FILL	10/6/2025	5	<0.3	14	14	30	<0.05	6.4	44	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH19_0.6-0.7	NATURAL	10/6/2025	9	<0.3	14	24	19	<0.05	4.3	26	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	NA	NA	<24	NA	NA			
BH20_0.1-0.2	FILL	10/6/2025	9	<0.3	17	26	61	0.1	7.8	93	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH21_0.1-0.2	FILL	11/6/2025	7	<0.3	11	12	18	<0.05	2.4	27	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH22_0.1-0.2	FILL	11/6/2025	8	<0.3	18	27	80	0.1	7.6	98	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH23_0.1-0.2	FILL	10/6/2025	6	<0.3	12	15	24	<0.05	6.1	33	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH23_0.5-0.6	NATURAL	10/6/2025	9	<0.3	15	20	16	<0.05	2.7	25	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	NA	NA	<24	NA	NA			
BH24_0.1-0.2	FILL	10/6/2025	6	<0.3	11	15	36	<0.05	6.2	43	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH25_0.1-0.2	FILL	10/6/2025	5	<0.3	11	14	24	<0.05	5.2	43	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No			
BH26_0.0-0.1	FILL	10/6/2025	5	<0.3	9.2	12	18	<0.05	5.4	23	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	29	170	<120	<0.1	<1.7	<24	<0.1	No			
BH27_0.0-0.1	FILL	10/6/2025	6	<0.3	11	16	27	<0.05	4.1	54	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	140	<120	<0.1	<1.7	<24	<0.1	No			
BH27_0.4-0.5	NATURAL	10/6/2025	5	<0.3	4.1	12	15	<0.05	<0.5	7	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	NA	NA	<24	NA	NA			
Statistical Analysis																															
	Minimum concentration		4	<0.3	4	9	15	<0.05	<0.5	7	<0.3	<0.1	<0.8	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	<25	>90	<120	<0.1	<1.7	<24	<0.1	No		
	Maximum concentration		26	0.5	18	45	120	0.1	9	250	0.4	0.2	2	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<25	29	170	<120	<0.1	<1.7	<24	<0.1	No		
NEPM (2013) Criteria																															
HIL A - Residential with garden / accessible soil			100	20	100 Cr(VI)	7,000	300	200	400	8,000	3		300																	1	No
HIL B - Residential with minimal soil access			500	140	500 Cr(VI)	30,000	600	600	900	60,000	4		400																	2	No
HSL A&B - Low and high density residential Soil texture classification – Sand			Source depths (0 m to <1 m BGL)										0.5	160	57																
			Source depths (1 m to <2 m BGL)										0.5	220	59	40	44	110													
			Source depths (2 m to <4 m BGL)										0.5	310	84	59	70	240													
			Source depths (4 m + B																												

Table 2 - Summary of Groundwater Analytical Results

Sample ID	Sampling Date	Metals								PAHs			BTEX					TRHs				Total VOCs	Total Phenols	Total Cyanide	PFAS				
		As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	Total PAHs	Benzo(a)pyrene	Naphthalene	Benzene	Toluene	Ethylbenzene	o-xylene	m/p-xylene	F1	F2	F3	F4				PFOs	Sum of PFOs and PFHxS	PFOA		
BH01M	7/7/2025	2	<0.1	<1	<1	<1	<0.1	5	<5	<1	<0.1	0.3	<0.5	1.3	<0.5	2	0.6	<50	84	<500	<500	18	<50	<4	<0.01	<0.01	<0.01		
BH03M		2	<0.1	1	2	<1	<0.1	24	39	<1	<0.1	<0.1	<0.5	<0.5	<0.5	<1	<0.5	<50	<60	<500	<500	<10	<50	<4	<0.01	<0.01	<0.01		
BH08M		1	<0.1	<1	6	<1	<0.1	18	73	<1	<0.1	<0.1	<0.5	<0.5	<0.5	<1	<0.5	<50	<60	<500	<500	<10	<50	<4	<0.01	<0.01	<0.01		
Statistical Analysis																													
Minimum Concentration		1	<0.1	<1	<1	<1	<0.1	5	<5	<1	<0.1	<0.1	<0.5	<0.5	<0.5	<1	<0.5	<60	<500	<500	<10	<50	<4	<0.01	<0.01	<0.01			
Maximum Concentration		2	<0.1	1	6	<1	<0.1	24	73	<1	<0.1	0.3	<0.5	1.3	<0.5	2	0.6	<50	<60	<500	<500	18	<50	<4	<0.01	<0.01	<0.01		
GILs																													
HSL A & B - Low to high density residential Soil texture classification – Sand		0 to <1m										NL						1000		1000									
		Source depths 2m to <4m										NL		800		NL		NL				1000		1000					
		Source depths 4m to <8m										NL		800		NL		NL				1000		1000					
		8m+										NL		900		NL		NL				1000		1000					
HSL A & B - Low to high density residential Soil texture classification – Clay		0 to <1m										NL						NL		NL									
		2m to <4m										NL		5,000		NL		NL		NL		NL		NL					
		4m to <8m										NL		6,000		NL		NL		NL		NL		NL					
		8m+										NL		6,000		NL		NL		NL		NL		NL					
GILs		Fresh Waters ¹	24 (AsIII) 13 (AsV)	0.2	1 ³ (Cr VI)	1.4	3.4	0.06 ²	11	6 ³		16	950	180 ⁴	80 ⁴	350	275 ⁴					320	7	0.13 ⁶	220 ⁶				
		Recreational Water ⁵	100	20		1,000*	100	10	200	3,000*		10	25*	3*	20*	20*					0.8			2	10				

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

Only detected concentrations were tabulated.

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)

1 NEPM (2013) Groundwater Investigation Levels for fresh water quality, based on ANZECC & ARMCANZ (2000).

3 Figure may not protect key species from chronic toxicity, refer to ANZECC & ARMCANZ (2000) for further guidance

4 Low reliability toxicity data, refer to ANZECC & ARMCANZ (2000)

5 Based on NHMRC (2011 - update June 2025 v.4.0) Drinking Water Guidelines. The lowest of the Health Guideline x10 or the Aesthetic Guideline has been chosen as the assessment criteria. Aesthetic based criteria have been indicated by *

6 Based on HEPA (2025) PFAS National Environmental Management Plan 3.0 for 95% species protection - slightly to moderately disturbed systems



Table 3 Summary of QA/QC Results for Investigation 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	m/p-xylene	o-xylene	Xylene (Total)	Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Mercury	Nickel	Zinc
Intra-laboratory Duplicate																				
BH11_0.1-0.2	10/6/2025	Fill	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	7	<0.3	10	17	49	<0.05	3	37
QD01		Duplicate of BH11_0.1-0.2	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	3.0	<0.3	9.0	16.0	66.0	0.14	3.7	49.0
RPD (%)			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0	0.0	10.5	6.1	29.6	109.1	20.9	27.9
BH10_0.1-0.2	10/6/2025	Fill	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	4.0	<0.3	12.0	15.0	32.0	<0.05	5.1	49.0
QD02		Duplicate of BH10_0.1-0.2	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	4.0	<0.3	11.0	15.0	34.0	0.05	4.6	48.0
RPD (%)			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	6.1	0.0	10.3	2.1
BH22_0.1-0.2	11/6/2025	Fill	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	8.0	<0.3	18.0	27.0	80.0	0.1	7.6	98.0
QD03		Duplicate of BH22_0.1-0.2	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	8.0	<0.3	16.0	25.0	76.0	0.05	6.0	83.0
RPD (%)			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	7.7	5.1	66.7	23.5	16.6	
BH01M	7/7/2025	Groundwater	<50	84	<500	<500	<0.5	1.3	<0.5	2	0.6	2.4	2.0	<0.1	<1	<1	<1	<0.1	5.0	<5
GWQD01		Duplicate of BH01M	<50	94	<500	<500	<0.5	1.2	<0.5	2	0.7	2.3	1.0	<0.1	<1	<1	<1	<0.1	4.0	<5
RPD (%)			0.0	11.2	0.0	0.0	0.0	8.0	0.0	0.0	15.4	4.3	66.7	0.0	0.0	0.0	0.0	0.0	22.2	0.0
Inter-laboratory Duplicate																				
BH11_0.1-0.2	10/6/2025	Fill	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	7	<0.3	10	17	49	<0.05	3	37
QT01		Duplicate of BH11_0.1-0.2	<25	<50	<100	<100	<0.2	<0.5	<1	<2	<1	N.A.	10	<0.4	12	24	37	<0.1	5	37
RPD (%)			0.0	NA	NA	NA	NA	NA	NA	NA	NA	N.C.	35.3	NA	18.2	34.1	27.9	NA	50.0	0.0
BH10_0.1-0.2	10/6/2025	Fill	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	4.0	<0.3	12.0	15.0	32.0	<0.05	5.1	49.0
QT02		Duplicate of BH10_0.1-0.2	<25	<50	<100	<100	<0.2	<0.5	<1	<2	<1	N.A.	5	<0.4	15	20	35	<0.1	7	45
RPD (%)			0.0	NA	NA	NA	NA	NA	NA	NA	N.C.	22.2	NA	22.2	28.6	9.0	NA	31.4	8.5	
BH22_0.1-0.2	11/6/2025	Fill	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	8.0	<0.3	18.0	27.0	80.0	0.1	7.6	98.0
QT03		Duplicate of BH22_0.1-0.2	<25	<50	<100	<100	<0.2	<0.5	<1	<2	<1	N.A.	12	<0.4	21	34	100	<0.1	9	70
RPD (%)			0.0	NA	NA	NA	NA	NA	NA	NA	N.C.	40.0	NA	15.4	23.0	22.2	0.0	16.9	33.3	
BH01M	7/7/2025	Groundwater	<50	84	<500	<500	<0.5	1.3	<0.5	2	0.6	2.4	2.0	<0.1	<1	<1	<1	<0.1	5.0	<5
GWQT01		Duplicate of BH01M	31	120	<100	<100	<1	1	<1	<2	<1	N.A.	1.0	<0.1	<1	<1	<1	<0.05	5.0	1.0
RPD (%)			67.9	35.3	NA	NA	NA	26.1	NA	0.0	72.7	N.C.	66.7	0.0	0.0	0.0	0.0	NA	0.0	228.6
Trip Blank	11/06/2025	Trip blank (Soil)	N.A.	N.A.	N.A.	N.A.	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Trip Spike		Trip spike (Soil)	N.A.	N.A.	N.A.	N.A.	[97%]	[99%]	[97%]	[97%]	[98%]	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
R01		Rinsate (Soil)	<50	<60	<500	<500	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<1	<0.1	<1	1	<1	<0.01	<1	<5
Trip Blank	7/07/2025	Trip blank (Groundwater)	N.A.	N.A.	N.A.	N.A.	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Trip Spike		Trip spike (Groundwater)	N.A.	N.A.	N.A.	N.A.	[103%]	[101%]	[99%]	[99%]	[100%]	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
R01		Rinsate (Groundwater)	<50	<60	<500	<500	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<1	<0.1	<1	<1	<1	<0.01	<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:

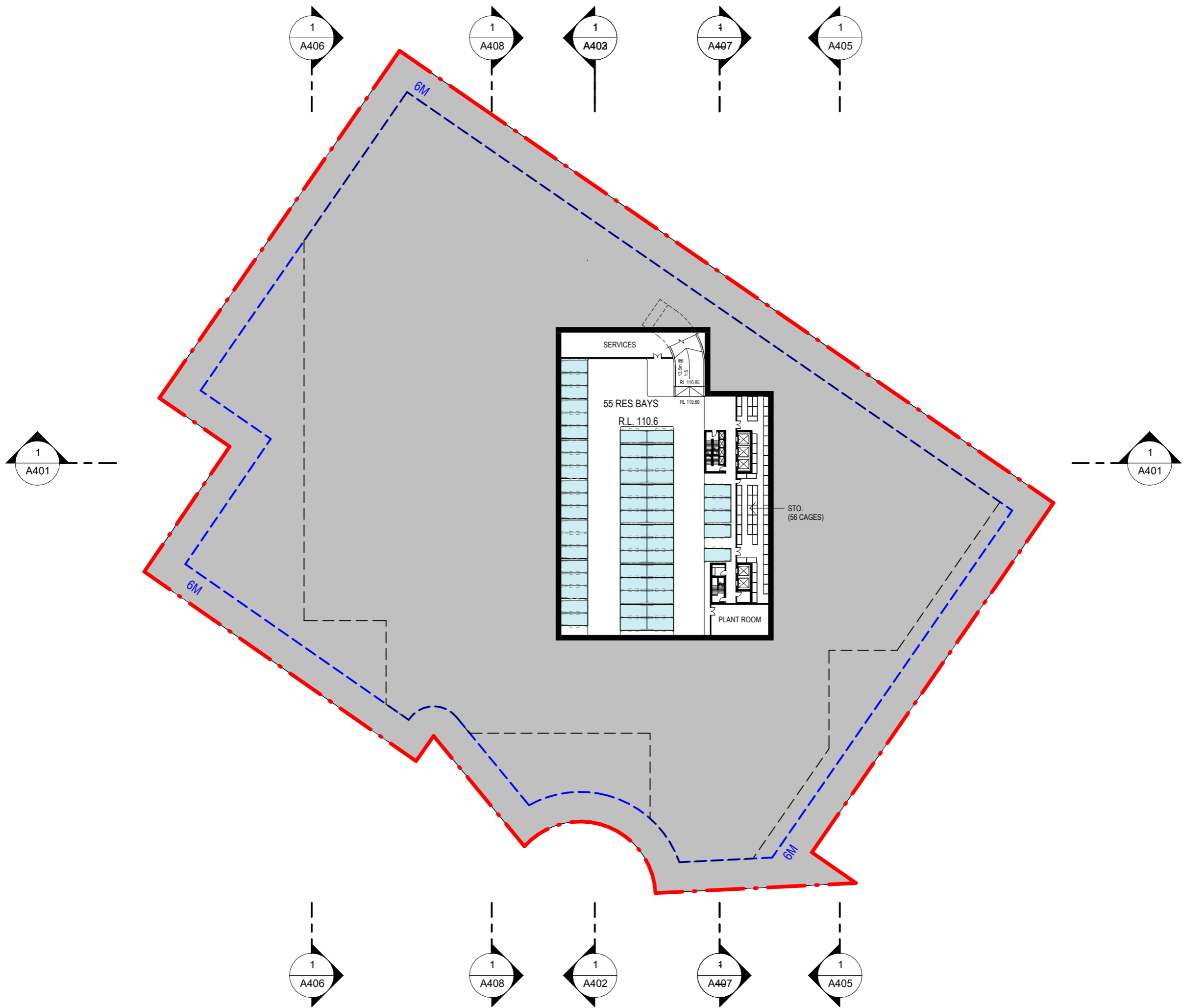
All soil results are reported in mg/kg . All water results are reported in µg/L.

* - to obtain F1 subtract the sum of BTEX concentrations from the C₆-C₁₀ fraction


** - to obtain F2 subtract naphthalene from the > C₁₀-C₁₆ fraction



Appendix C – Plans of the Proposed
Development



REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

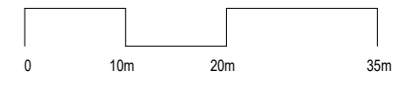
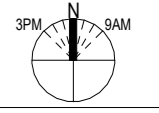

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 LEVEL 3, 9 BARRACK STREET
 SYDNEY, NSW 2000
 NOMINATED ARCHITECT
 KAICHI LEUNG NSW 7133

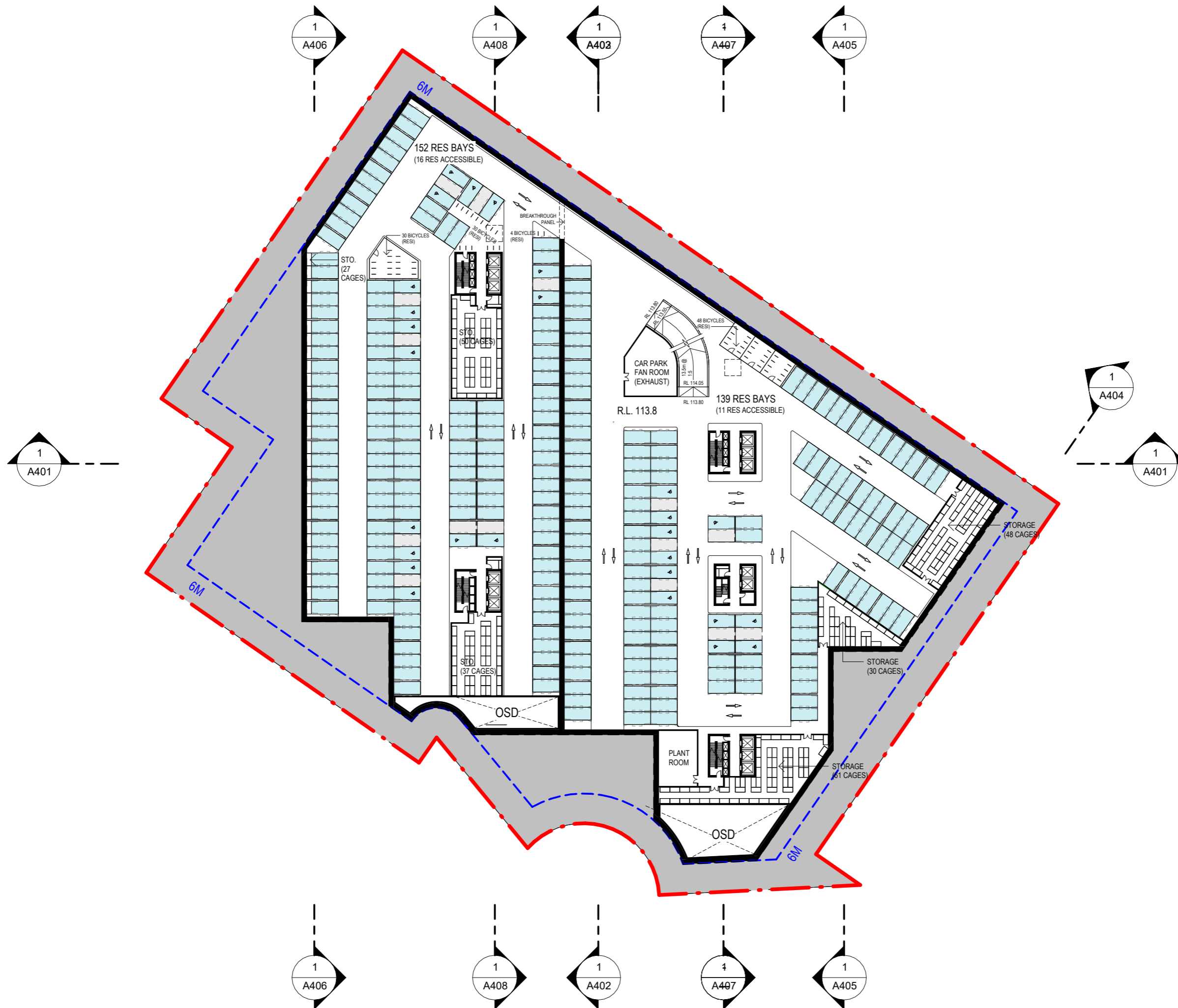
PROJECT:
 93-107 Cecil Avenue and
 9-10 Roger Ave, Castle Hill

DRAWING TITLE:
BASEMENT 02 PLAN
(RL 110.60)


DATE: Issue Date	SCALE: 1 : 750 @ A3	DRAWING No: A201	REV: C
DRAWN BY: LN	PROJECT NO: a24033		

DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.





REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

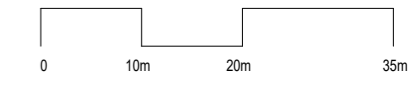

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PROJECT:
 93-107 Cecil Avenue and
 9-10 Roger Ave, Castle Hill

DRAWING TITLE:
 BASEMENT 01 PLAN
 (RL 113.80)

DATE: Issue Date	SCALE: 1 : 750 @ A3	DRAWING No: A202	REV: C
DRAWN BY: LN	PROJECT NO: a24033		

DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.





LEGEND:

- 1B
- 2B
- 2B (>=110M²)
- 3B
- 3B (>=135M²)
- NON-RESIDENTIAL
- LOBBY / AMENITY
- RESIDENTIAL PARKING
- VISITOR PARKING
- NON-RESI PARKING

REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

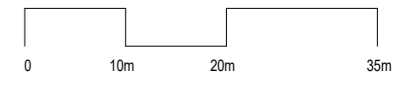
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PROJECT:
 93-107 Cecil Avenue and
 9-10 Roger Ave, Castle Hill

DRAWING TITLE:
 LOWER GROUND LEVEL PLAN
 (RL 117.00)

DATE: Issue Date	SCALE: 1 : 750 @ A3	DRAWING No: A203	REV: C
DRAWN BY: LN	PROJECT NO: a24033		

DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.





LEGEND:

- 1B
- 2B
- 2B (>=110M²)
- 3B
- 3B (>=135M²)
- NON-RESIDENTIAL
- LOBBY / AMENITY
- RESIDENTIAL PARKING
- VISITOR PARKING
- NON-RESI PARKING

REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

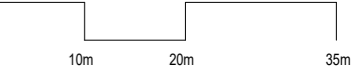
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 KAICHI LEUNG NSW 7133

PROJECT:
 93-107 Cecil Avenue and
 9-10 Roger Ave, Castle Hill

DRAWING TITLE:
 GROUND LEVEL PLAN
 (RL 120.20)

DATE: Issue Date	SCALE: 1 : 750 @ A3	DRAWING No: A204	REV: C
DRAWN BY: LN	PROJECT NO: a24033		

DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.






LEGEND:

- 1B
- 2B
- 2B (>=110M²)
- 3B
- 3B (>=135M²)
- NON-RESIDENTIAL
- LOBBY / AMENITY
- RESIDENTIAL PARKING
- VISITOR PARKING
- NON-RESI PARKING

REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

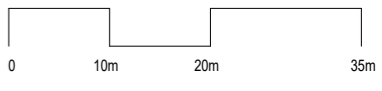

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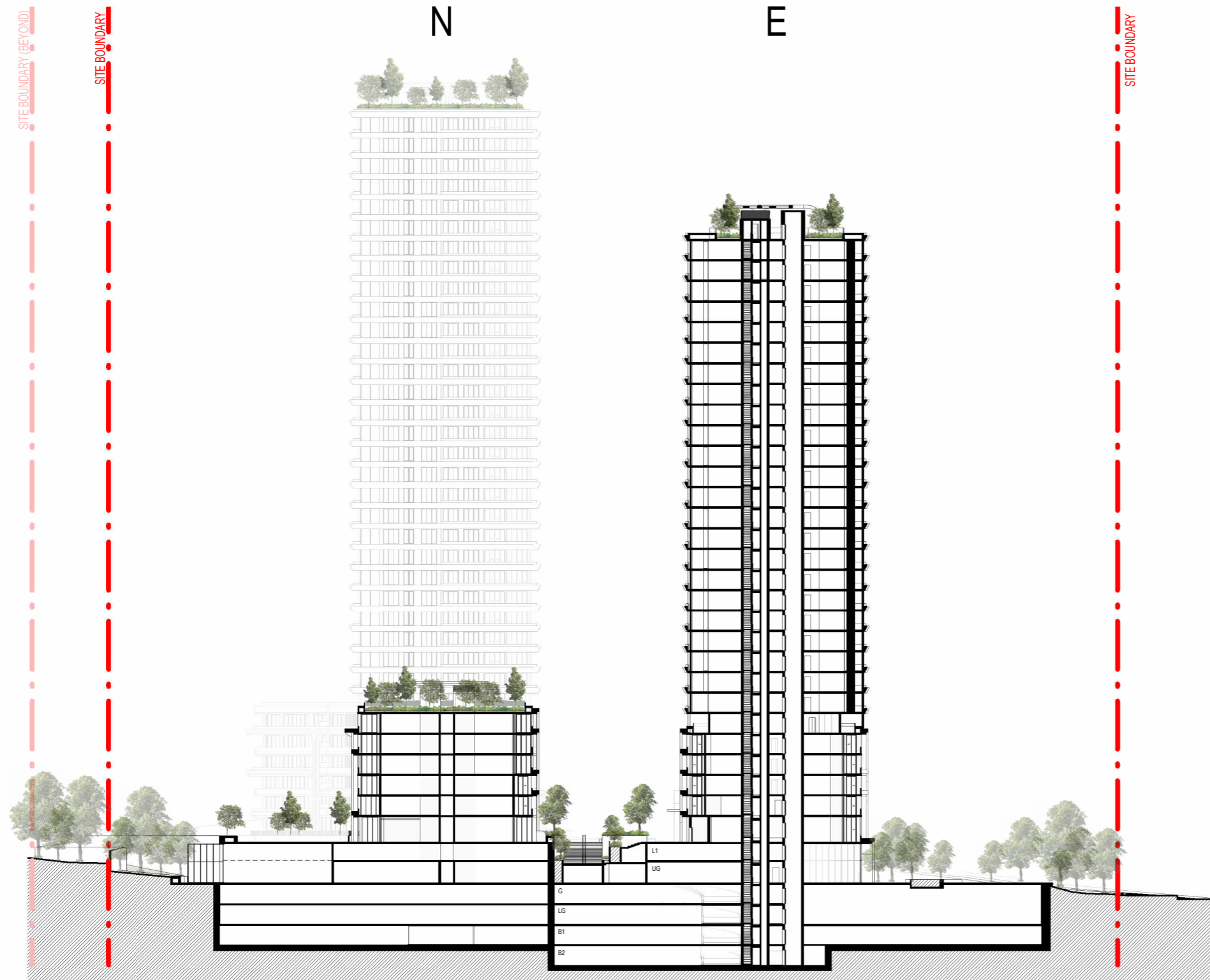
PROJECT:
 93-107 Cecil Avenue and
 9-10 Roger Ave, Castle Hill

DRAWING TITLE:
 UPPER GROUND LEVEL PLAN
 (RL 123.40)

DATE:	SCALE:	DRAWING No:	REV:
Issue Date	1 : 750 @ A3	A205	C
DRAWN BY:	PROJECT NO:		
LN	a24033		


DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.





---	LEVEL 31	RL223.5
---	LEVEL 30	RL220.3
---	LEVEL 29	RL217.1
---	LEVEL 28	RL213.9
---	LEVEL 27	RL210.7
---	LEVEL 26	RL207.5
---	LEVEL 25	RL204.3
---	LEVEL 24	RL201.1
---	LEVEL 23	RL197.9
---	LEVEL 22	RL194.7
---	LEVEL 21	RL191.5
---	LEVEL 20	RL188.3
---	LEVEL 19	RL185.1
---	LEVEL 18	RL181.9
---	LEVEL 17	RL178.7
---	LEVEL 16	RL175.5
---	LEVEL 15	RL172.3
---	LEVEL 14	RL169.1
---	LEVEL 13	RL165.9
---	LEVEL 12	RL162.7
---	LEVEL 11	RL159.5
---	LEVEL 10	RL156.3
---	LEVEL 09	RL153.1
---	LEVEL 08	RL149.9
---	LEVEL 07	RL146.7
---	LEVEL 06	RL143.5
---	LEVEL 05	RL140.3
---	LEVEL 04	RL137.1
---	LEVEL 03	RL133.9
---	LEVEL 02	RL130.4
---	LEVEL 01	RL126.9
---	UPPER GROUND	RL123.4
---	GROUND LEVEL	RL120.2
---	LOWER GROUND	RL117.0
---	BASEMENT 01 - RL113.80	RL113.8
---	BASEMENT 02 - RL110.60	RL110.6

REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

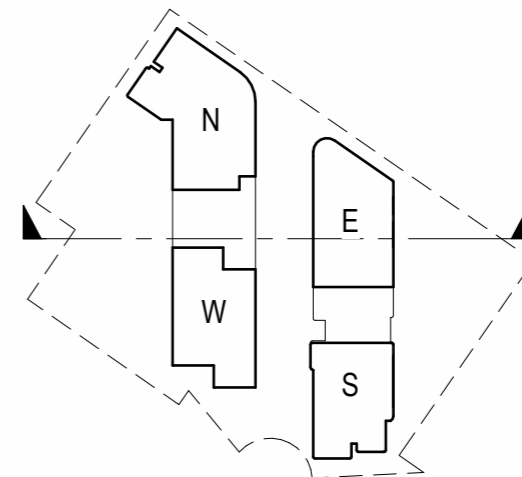
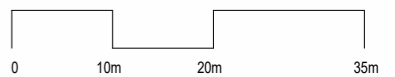

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 NOMINATED ARCHITECT
 KAICHI LEUNG NSW 7133

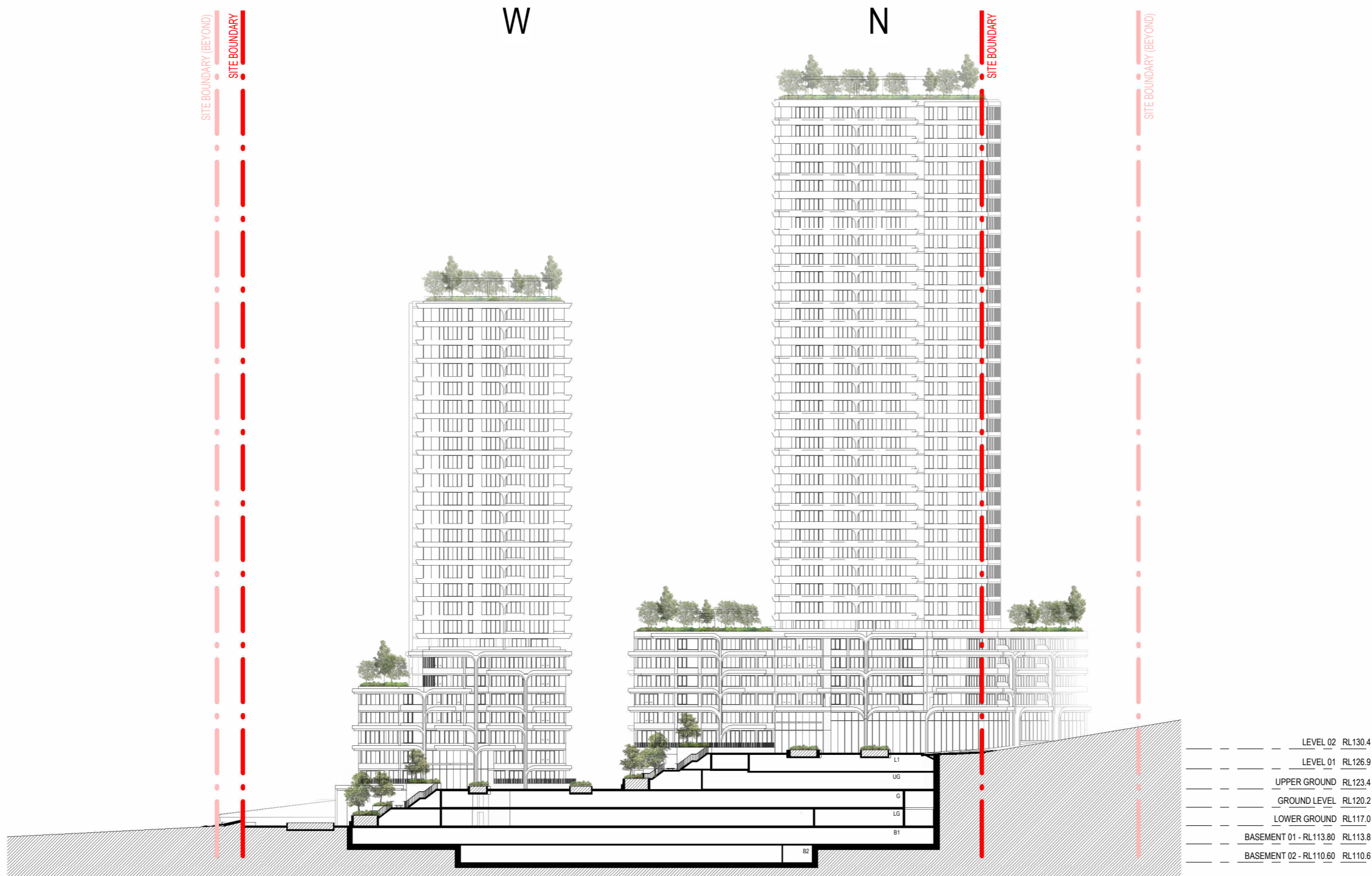
PROJECT:
93-107 Cecil Avenue and
9-10 Roger Ave, Castle Hill

DRAWING TITLE:
SECTION A-A (EAST/WEST)


DATE: Issue Date	SCALE: As indicated @ A3	DRAWING No: A401	REV: C
DRAWN BY: LN	PROJECT NO: a24033		

DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.





REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

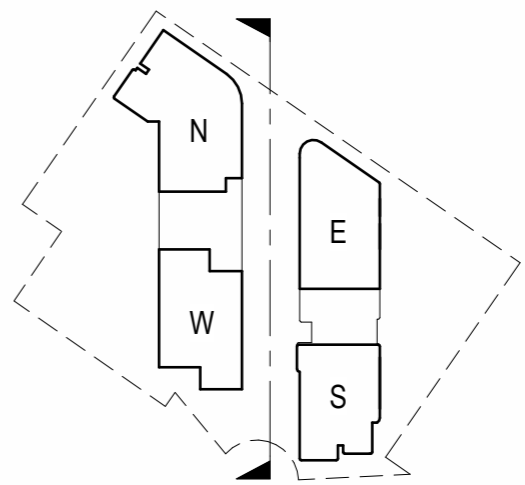
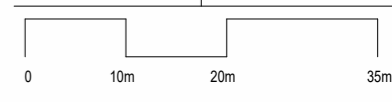

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 SYDNEY, NSW 2000
 NOMINATED ARCHITECT
 KAICHI LEUNG NSW 7133

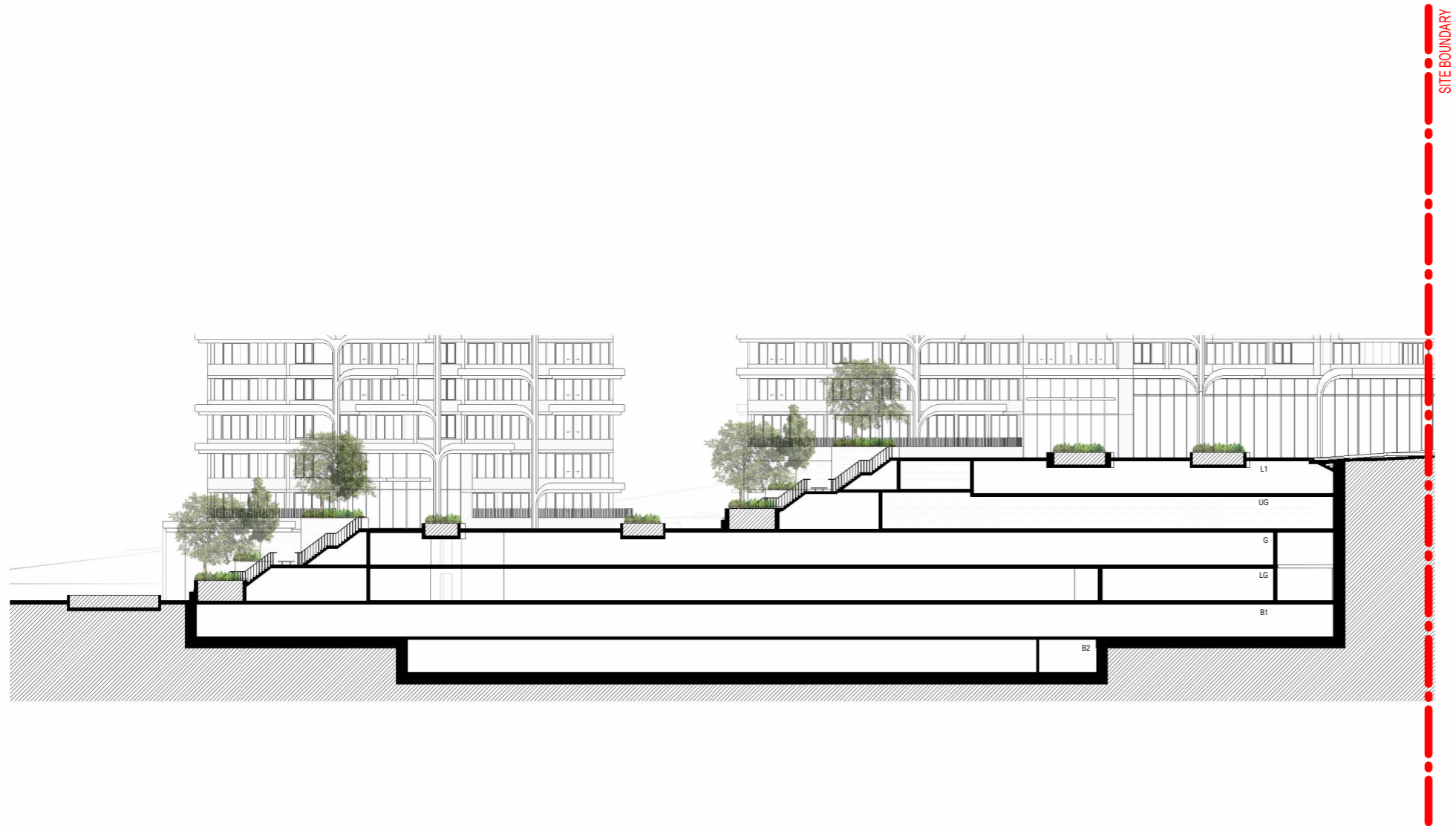
PROJECT:
**93-107 Cecil Avenue and
 9-10 Roger Ave, Castle Hill**

DRAWING TITLE:
**SECTION B-B (SITE THROUGH
 LINK)**

DATE: Issue Date	SCALE: As indicated @ A3	DRAWING No: A402	REV: C
DRAWN BY: LN	PROJECT NO: a24033		


DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.





LEVEL 02	RL130.4
LEVEL 01	RL126.9
UPPER GROUND	RL123.4
GROUND LEVEL	RL120.2
LOWER GROUND	RL117.0
BASEMENT 01 - RL113.80	RL113.8
BASEMENT 02 - RL110.60	RL110.6

REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

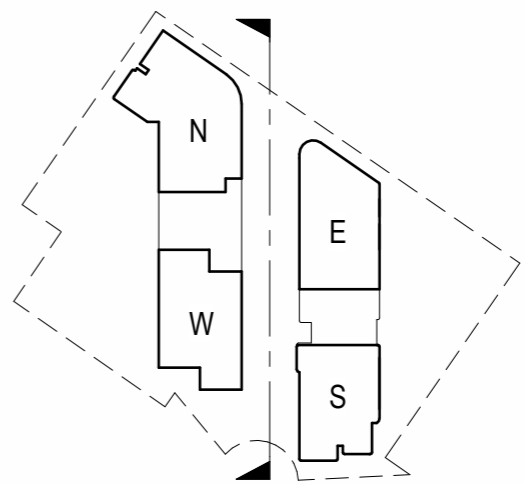
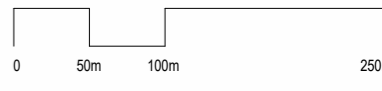

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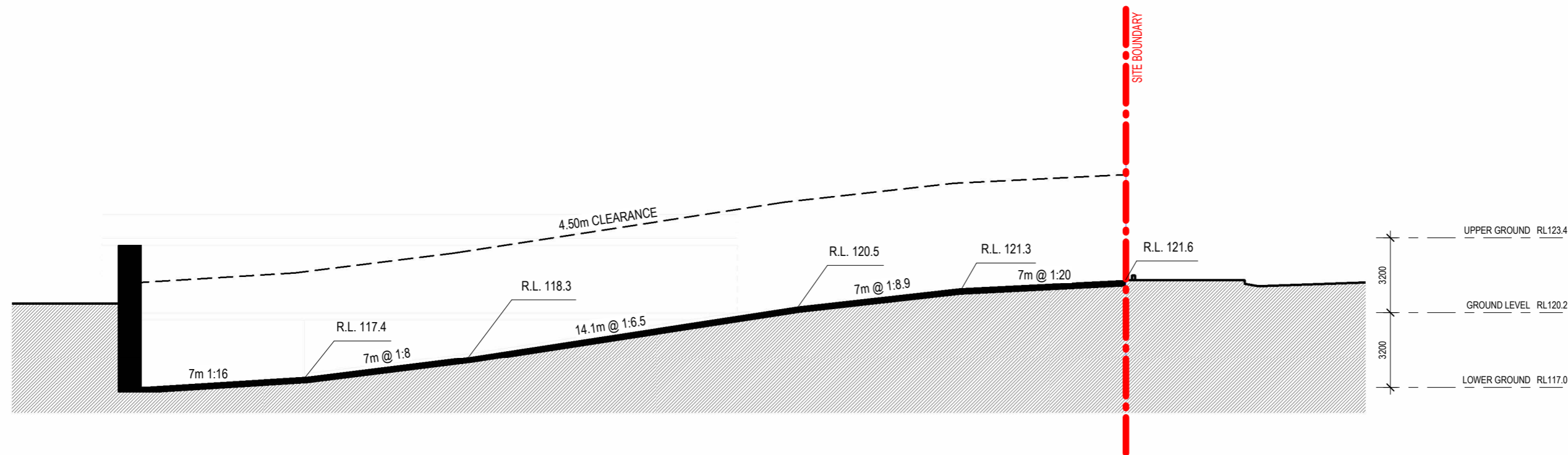
PROJECT:
**93-107 Cecil Avenue and
 9-10 Roger Ave, Castle Hill**

DRAWING TITLE:
SECTION C-C (PUBLIC PLAZA)


DATE: Issue Date	SCALE: As indicated @ A3	DRAWING No: A403	REV: C
DRAWN BY: LN	PROJECT NO: a24033		

DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.





REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

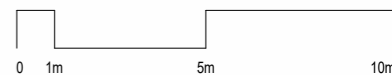

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 NOMINATED ARCHITECT
 KAICHI LEUNG NSW 7133

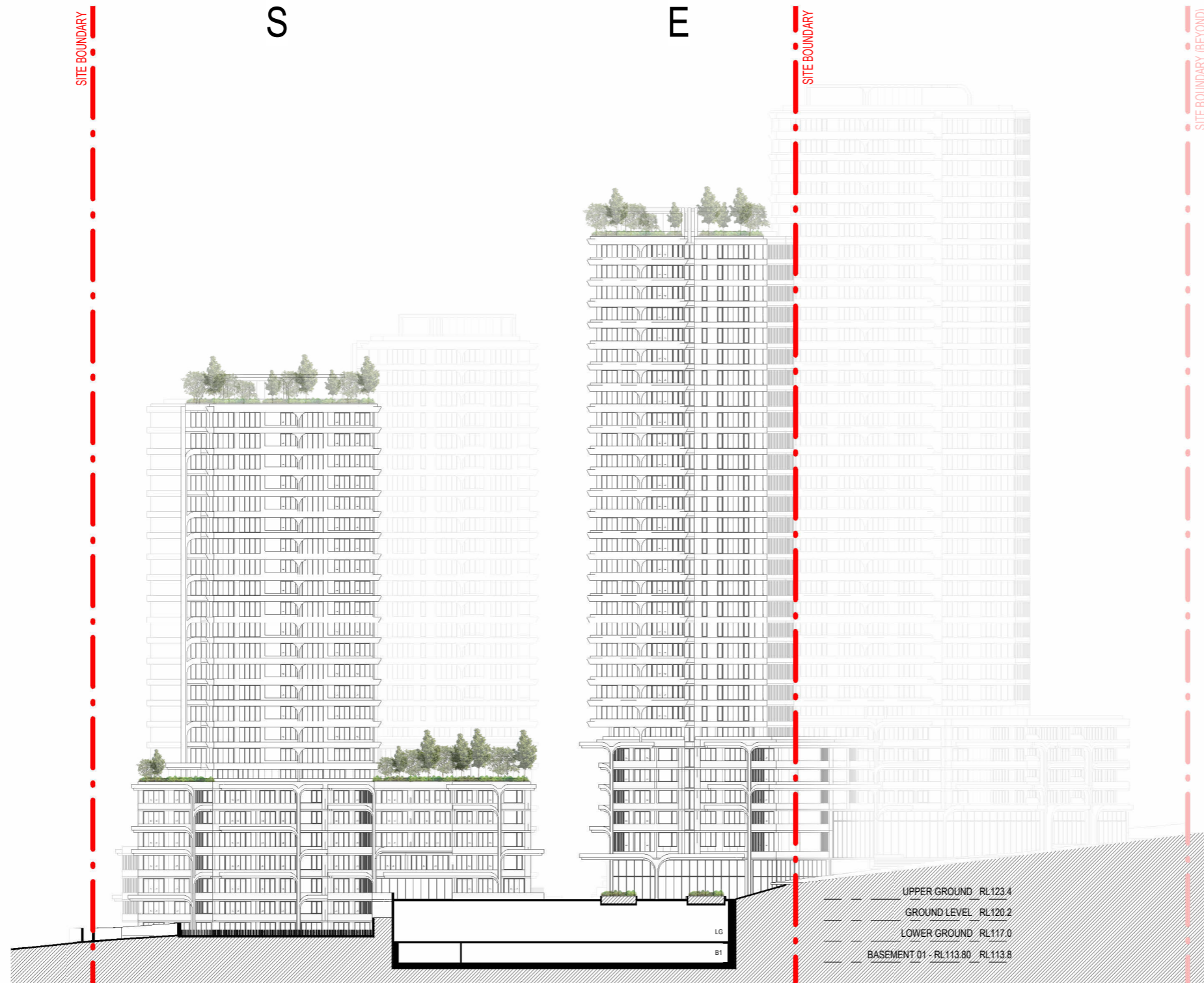
PROJECT:
**93-107 Cecil Avenue and
 9-10 Roger Ave, Castle Hill**

DRAWING TITLE:
SECTION D-D (DRIVEWAY)

DATE: Issue Date	SCALE: 1 : 200 @ A3	DRAWING No: A404	REV: C
DRAWN BY: LN	PROJECT NO: a24033		

DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.





REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

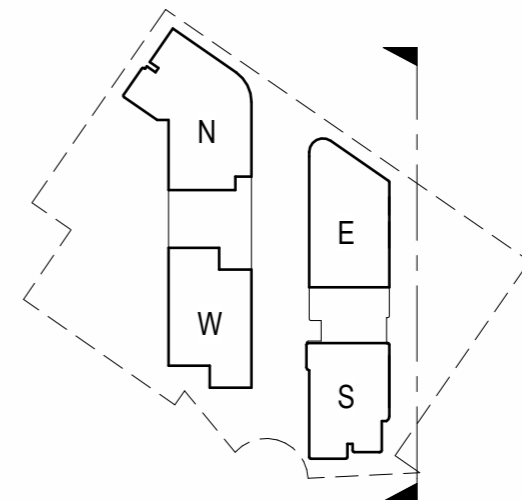
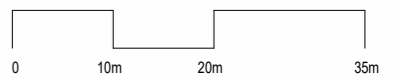
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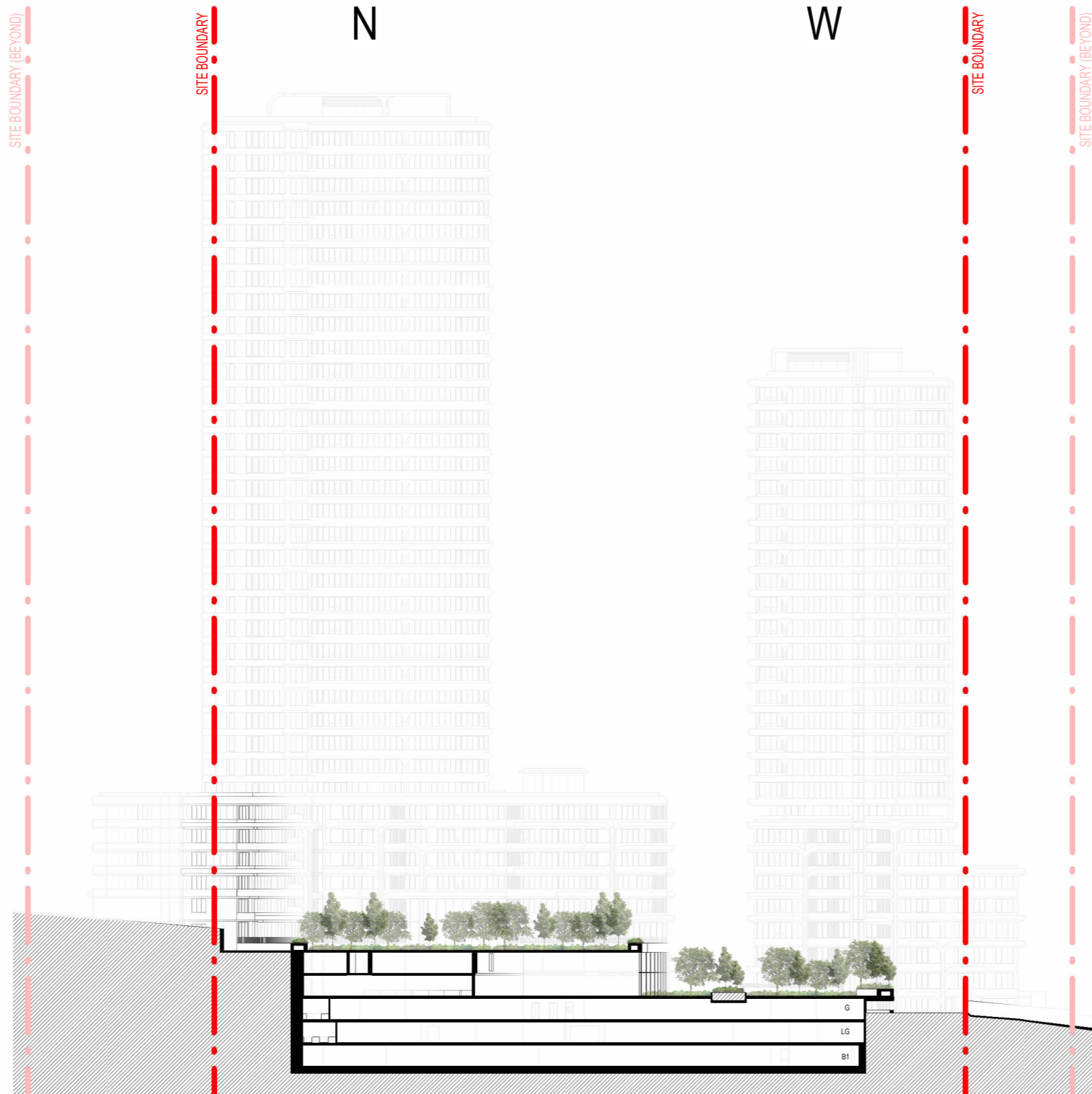
PROJECT:
93-107 Cecil Avenue and
9-10 Roger Ave, Castle Hill

DRAWING TITLE:
SECTION E-E - BUILDING S & E
EAST ELEVATION

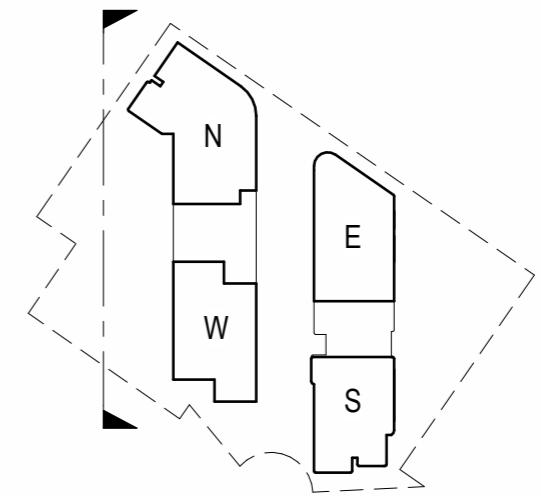
DATE: Issue Date	SCALE: As indicated @ A3	DRAWING No: A405	REV: C
DRAWN BY: LN	PROJECT NO: a24033		

DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.






---	LEVEL 02	RL130.4
---	LEVEL 01	RL126.9
---	UPPER GROUND	RL123.4
---	GROUND LEVEL	RL120.2
---	LOWER GROUND	RL117.0



REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

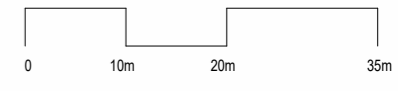

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PROJECT:
93-107 Cecil Avenue and
9-10 Roger Ave, Castle Hill

DRAWING TITLE:
SECTION F-F - BUILDING N & W
WEST ELEVATION

DATE: Issue Date	SCALE: As indicated @ A3	DRAWING No: A406	REV: C
DRAWN BY: LN	PROJECT NO: a24033		

DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.



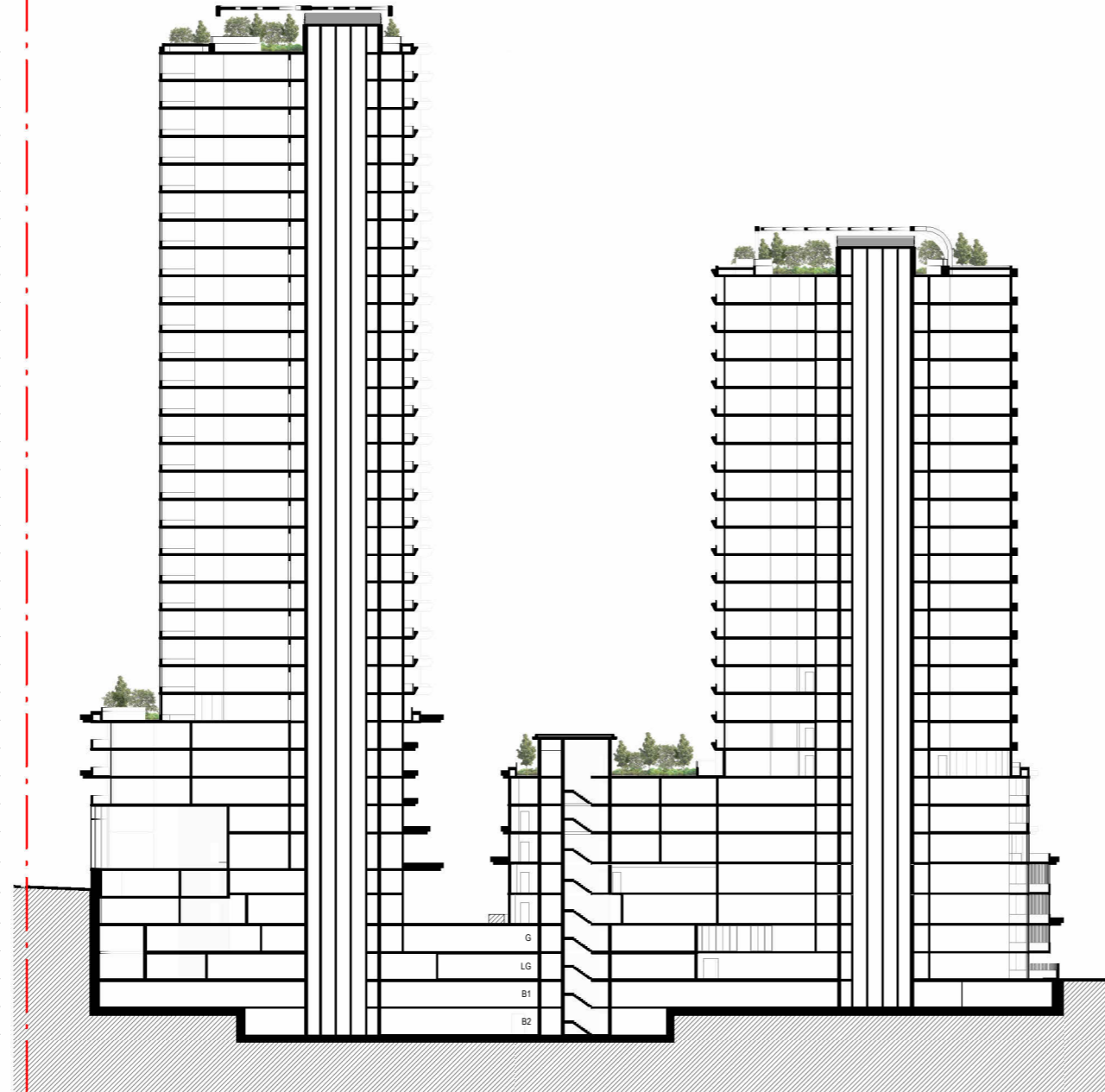
SITE BOUNDARY

E

S

SITE BOUNDARY

RL223.5	LEVEL 31	---	---
RL220.3	LEVEL 30	---	---
RL217.1	LEVEL 29	---	---
RL213.9	LEVEL 28	---	---
RL210.7	LEVEL 27	---	---
RL207.5	LEVEL 26	---	---
RL204.3	LEVEL 25	---	---
RL201.1	LEVEL 24	---	---
RL197.9	LEVEL 23	---	---
RL194.7	LEVEL 22	---	---
RL191.5	LEVEL 21	---	---
RL188.3	LEVEL 20	---	---
RL185.1	LEVEL 19	---	---
RL181.9	LEVEL 18	---	---
RL178.7	LEVEL 17	---	---
RL175.5	LEVEL 16	---	---
RL172.3	LEVEL 15	---	---
RL169.1	LEVEL 14	---	---
RL165.9	LEVEL 13	---	---
RL162.7	LEVEL 12	---	---
RL159.5	LEVEL 11	---	---
RL156.3	LEVEL 10	---	---
RL153.1	LEVEL 09	---	---
RL149.9	LEVEL 08	---	---
RL146.7	LEVEL 07	---	---
RL143.5	LEVEL 06	---	---
RL140.3	LEVEL 05	---	---
RL137.1	LEVEL 04	---	---
RL133.9	LEVEL 03	---	---
RL130.4	LEVEL 02	---	---
RL126.9	LEVEL 01	---	---
RL123.4	UPPER GROUND	---	---
RL120.2	GROUND LEVEL	---	---
RL117.0	LOWER GROUND	---	---
RL113.8	BASEMENT 01 - RL113.80	---	---
RL110.6	BASEMENT 02 - RL110.60	---	---



REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

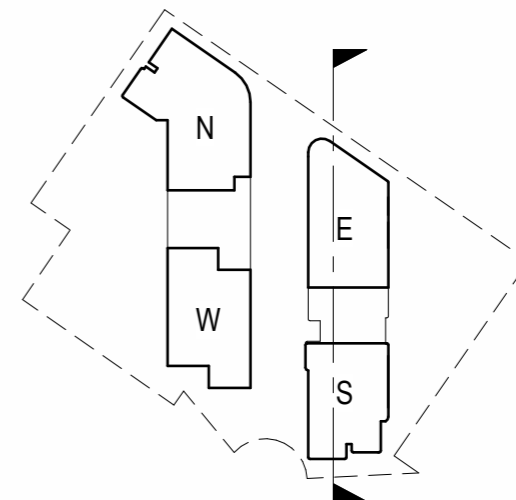
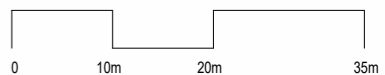
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PROJECT:
**93-107 Cecil Avenue and
 9-10 Roger Ave, Castle Hill**

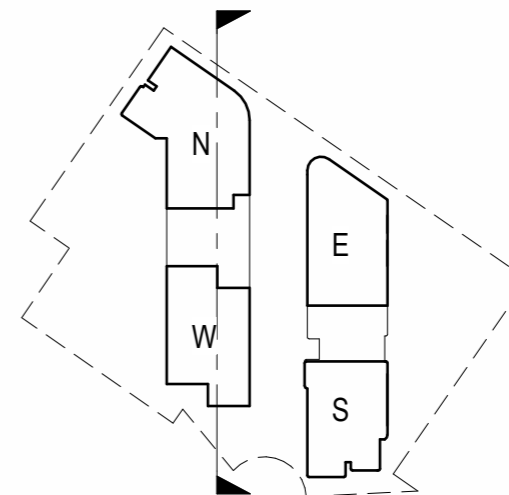
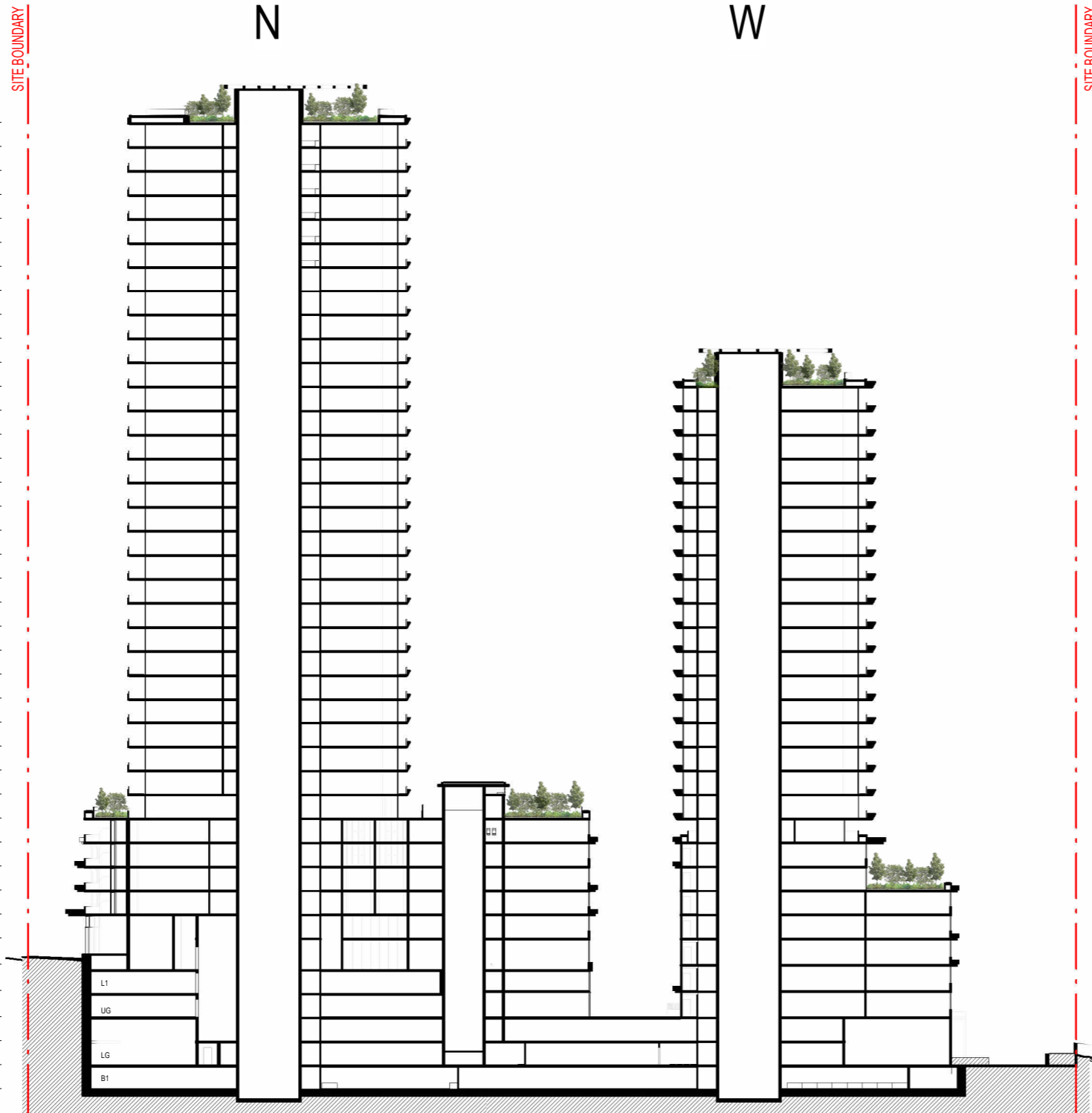
DRAWING TITLE:
BUILDING S & E - SECTION

DATE: Issue Date	SCALE: As indicated @ A3	DRAWING No: A407	REV: C
DRAWN BY: LN	PROJECT NO: a24033		


DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.



RL242.7	ROOF
RL239.5	LEVEL 36
RL236.3	LEVEL 35
RL233.1	LEVEL 34
RL229.9	LEVEL 33
RL226.7	LEVEL 32
RL223.5	LEVEL 31
RL220.3	LEVEL 30
RL217.1	LEVEL 29
RL213.9	LEVEL 28
RL210.7	LEVEL 27
RL207.5	LEVEL 26
RL204.3	LEVEL 25
RL201.1	LEVEL 24
RL197.9	LEVEL 23
RL194.7	LEVEL 22
RL191.5	LEVEL 21
RL188.3	LEVEL 20
RL185.1	LEVEL 19
RL181.9	LEVEL 18
RL178.7	LEVEL 17
RL175.5	LEVEL 16
RL172.3	LEVEL 15
RL169.1	LEVEL 14
RL165.9	LEVEL 13
RL162.7	LEVEL 12
RL159.5	LEVEL 11
RL156.3	LEVEL 10
RL153.1	LEVEL 09
RL149.9	LEVEL 08
RL146.7	LEVEL 07
RL143.5	LEVEL 06
RL140.3	LEVEL 05
RL137.1	LEVEL 04
RL133.9	LEVEL 03
RL130.4	LEVEL 02
RL126.9	LEVEL 01
RL123.4	UPPER GROUND
RL120.2	GROUND LEVEL
RL117.0	LOWER GROUND
RL113.8	BASEMENT 01 - RL113.80



REV	DESCRIPTION	DATE
A	SSDA	18/11/2025
B	SDRP	25/11/2025
C	AMENDED DA	19/12/2025

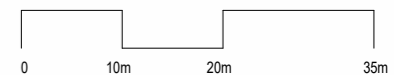

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PROJECT:
**93-107 Cecil Avenue and
 9-10 Roger Ave, Castle Hill**

DRAWING TITLE:
BUILDING N & W - SECTION

DATE: Issue Date	SCALE: As indicated @ A3	DRAWING No: A408	REV: C
DRAWN BY: LN	PROJECT NO: a24033		

DO NOT SCALE
 USE FIGURED DIMENSIONS
 AT ALL TIMES.



Appendix D – Borehole Logs



BOREHOLE LOG

BH ID: BH01M

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	17 June 2025
Client	Alton Property Group Pty Ltd	Completed	17 June 2025
Job No.	E26536.G03	Logged By	PS Date
Sheets	1 of 4	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈130.80 m (AHD) Northing
Plant	Comacchio Geo 205	Inclination	90° Easting
			6265367.7854 (MGA 2020 Zone 56)
			315105.1383 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T			█	0.00		130.80	FILL: Silty SAND: medium grained, dark brown with rootlets and gravels	M	-	FILL
		BH01M_0.50-0.95 SPT 0.50-0.95 3,4,4 N=8	█	0.60		130.20	Silty CLAY: medium plasticity, red brown to brown	M = PL	F	RESIDUAL SOIL
		BH01M_1.50-1.80 SPT 1.50-1.80 12,25/150 mm HB N=R	█	1.60		129.20	From 1.60m to 4.65m, ... becoming pale grey, friable with fragments of shale (extremely weathered bedrock)			
		SPT 3.00-3.29 14,12/140 mm HB N=R	█	3.00				M < PL	-	
		BH01M_4.50-4.51 SPT 4.50-4.51 2/10 mm HB N=R	█	4.65		126.15	<i>Log continued on next page.</i>			

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



BOREHOLE CORE LOG

BH ID: BH01M

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	17 June 2025
Client	Alton Property Group Pty Ltd	Completed	17 June 2025
Job No.	E26536.G03	Logged By	PS Date
Sheets	2 of 4	Review By	Date

Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈130.80 m (AHD)	Northing	6265367.7854 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90°	Easting	315105.1383 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING				
									VL ₀₋₀₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000	3000
				0			<i>Log continued from previous page.</i>													
				5.40		125.40	SHALE: brown to grey	DW												
	95%	100	69	6			SILTSTONE: grey to dark grey with thinly bedded laminations							5.58: JT 5° PR VR crushed siltstone Infilled						
				7										6.71: BP 2° PR SM CL						
				8										7.59: BP 2° PR SM CL 7.73-7.83: JT 5-90° IR RO SN						
	100		97	9										8.67: CS 2° PR VR crushed siltstone CL						
				10																

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



BOREHOLE CORE LOG

BH ID: BH01M

Location 93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW **Started** 17 June 2025
Client Alton Property Group Pty Ltd **Completed** 17 June 2025
Job No. E26536.G03 **Logged By** PS **Date**
Sheets 3 of 4 **Review By** **Date**

Drilling Contractor Geosense Drilling Engineers **Surface RL** ≈130.80 m (AHD) **Northing** 6265367.7854 (MGA 2020 Zone 56)
Plant Comacchio Geo 205 **Inclination** 90° **Easting** 315105.1383 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING					
									VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000	3000	
NMLC	95%	100	92	11		130.80	SILTSTONE: grey to dark grey with thin bedded laminations	DW - SW	▼							10.15-10.30: Handling Break IR VR					
				10.40-10.61: JT 5-90° IR VR OP																	
				10.72: JT 5° PR RO OP																	
				10.92-10.97: FS 5-20° PR RO OP																	
				11.04: JT 5° PR RO OP																	
				12.45: CS 5° PR VR crushed siltstone Infilled																	
				13.22-13.68: FZ 5-90° IR VR OP																	
				13.81: JT 45° PR RO OP																	
				13.93: JT 2° PR RO CL																	
				14.06: JT 2° PR SM CL																	
14.13: JT 2° PR RO OP																					
14.30-14.51: FZ 5-90° IR VR OP																					
15.10-15.74: FZ 5-15° PR VR OP																					
16.45: SSU RO OP																					
16.85: JT 2° PR RO OP																					
17.25: BP SM CL																					
17.39: JT 2° PR RO OP																					
18.10-18.31: XWZ PR VR VN																					
18.57: JT 5° PR RO OP																					
18.64: XWS 5° PR RO VN																					
18.69: JT 15° PR RO CL																					
18.79-18.93: FZ 5-15° PR RO VN																					
19.00-19.06: CS 5-15° PR VR VN																					
19.31: SSU RO OP																					
19.73: JT 5° CU RO OP																					
				16.60		114.20	LAMINITE: fine grained sandstone, pale grey with dark grey siltstone beddings	FR	▼												
				17		111.05	SANDSTONE: fine grained, pale grey														
				18		111.05	SANDSTONE: fine grained, pale grey														
				19																	
				20																	

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



BOREHOLE CORE LOG

BH ID: BH01M

Location 93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started 17 June 2025
Client Alton Property Group Pty Ltd	Completed 17 June 2025
Job No. E26536.G03	Logged By PS Date
Sheets 4 of 4	Review By Date

Drilling Contractor Geosense Drilling Engineers	Surface RL ≈130.80 m (AHD)	Northing 6265367.7854 (MGA 2020 Zone 56)
Plant Comacchio Geo 205	Inclination 90°	Easting 315105.1383 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)										DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING				
									VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH	30	100	300	1000		3000				
	90%	100	100	21	█		SANDSTONE: fine grained, pale grey																	
				22	█																			
				21.29	█	108.36	Terminated at 22.44m. Target Depth Reached.										21.29: XWS 5° PR RO extremely weathered shale Infilled							
				23	█																			
				24	█																			
				25	█																			
				26	█																			
				27	█																			
				28	█																			
				29	█																			
				30	█																			

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



MONITORING WELL LOG

BH ID: BH01M

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	17 June 2025
Client	Alton Property Group Pty Ltd	Completed	17 June 2025
Job No.	E26536.G03	Logged By	PS Date
Sheets	1 of 3	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈130.80 m (AHD) Northing
Plant	Comacchio Geo 205	Inclination	90° Easting
			6265367.7854 (MGA 2020 Zone 56)
			315105.1383 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
	BH01M_0.50-0.95 SPT 0.50-0.95 3,4,4 N=8	0.00		130.80	FILL: Silty SAND: medium grained, dark brown with rootlets and gravels	M		Well Stickup =0.0m (RL 130.80m)
	BH01M_1.50-1.80 SPT 1.50-1.80 12,25/150 mm HB N=R	0.60		130.20	Silty CLAY: medium plasticity, red brown to brown	M ≈ PL		
	SPT 3.00-3.29 14,12/140 mm HB N=R	1.60		129.20	From 1.60m to 4.65m, ... becoming pale grey, friable with fragments of shale (extremely weathered bedrock)	M < PL		
	BH01M_4.50-4.51 SPT 4.50-4.51 2/10 mm HB N=R	4.65		126.15	SHALE: brown to grey			
		5.40		125.40	SILTSTONE: grey to dark grey with thinly bedded laminations			
95%							Cuttings 0.00m - 12.50m	0.0m - 13.20m PVC casing (50mm Ø)

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



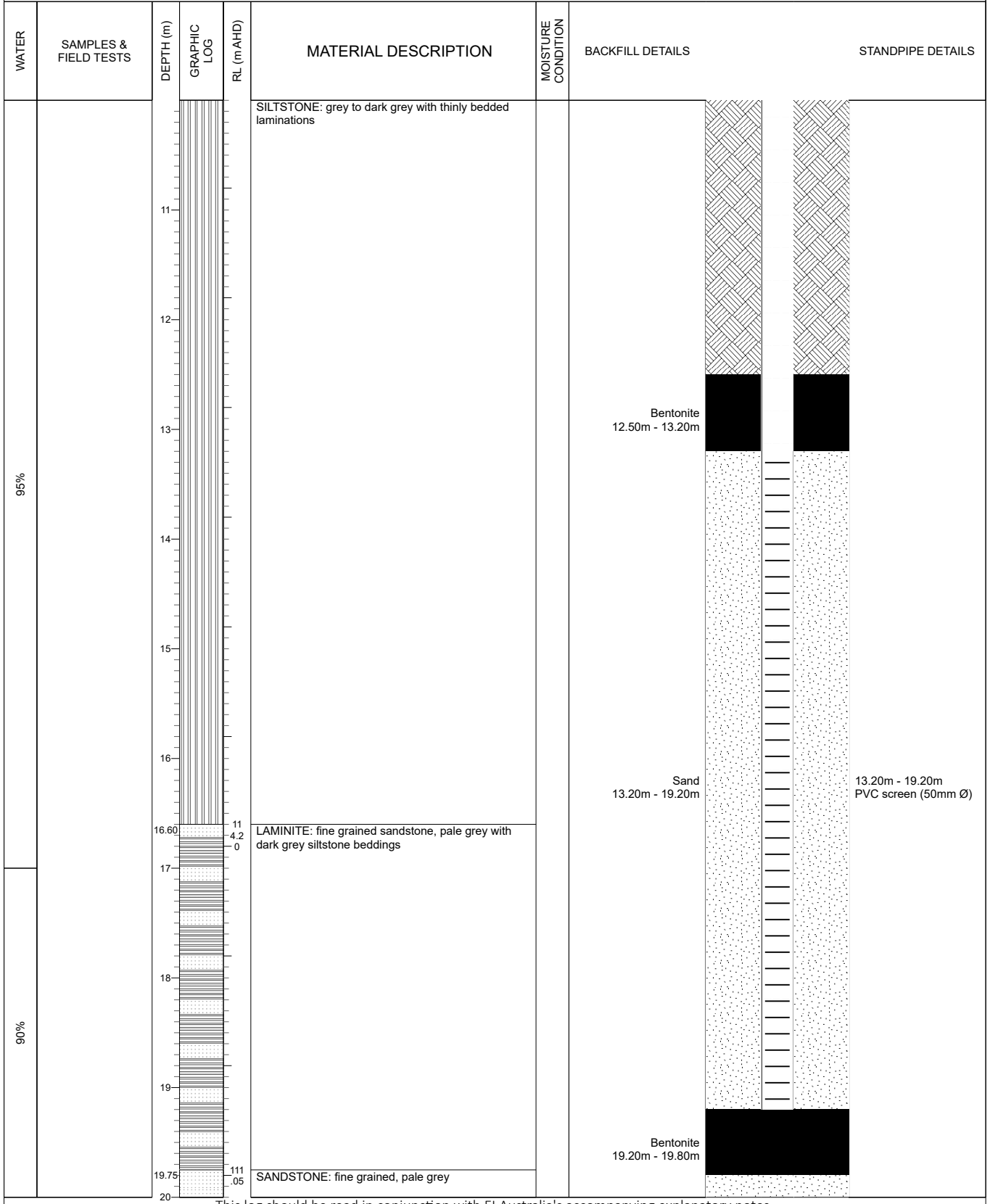
MONITORING WELL LOG

BH ID: BH01M

Location 93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW
Client Alton Property Group Pty Ltd
Job No. E26536.G03
Sheets 2 of 3

Started 17 June 2025
Completed 17 June 2025
Logged By PS **Date**
Review By **Date**

Drilling Contractor Geosense Drilling Engineers **Surface RL** ≈130.80 m (AHD) **Northing** 6265367.7854 (MGA 2020 Zone 56)
Plant Comacchio Geo 205 **Inclination** 90° **Easting** 315105.1383 (MGA 2020 Zone 56)



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



MONITORING WELL LOG

BH ID: BH01M

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	17 June 2025
Client	Alton Property Group Pty Ltd	Completed	17 June 2025
Job No.	E26536.G03	Logged By	PS Date
Sheets	3 of 3	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈130.80 m (AHD) Northing
Plant	Comacchio Geo 205	Inclination	90° Easting
			6265367.7854 (MGA 2020 Zone 56)
			315105.1383 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
90%		21			SANDSTONE: fine grained, pale grey		Sand 19.80m - 22.44m	
		22			Terminated at 22.44m. Target Depth Reached.			
		23						
		24						
		25						
		26						
		27						
		28						
		29						
		30						

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



BOREHOLE LOG

BH ID: BH02

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	10 June 2025
Client	Alton Property Group Pty Ltd	Completed	11 June 2025
Job No.	E26536.G03	Logged By	PS Date 11 June 2025
Sheets	1 of 4	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈127.50 m (AHD) Northing 6265342.2624 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90° Easting 315147.0607 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T		102_0.50-0.95 SPT 0.50-0.95 3,5,6 N=11		0.00		127.50	FILL: Sandy CLAY: low to medium plasticity, dark grey transitioning to brown with rootlets and small gravels	M ≈ PL	-	FILL
		SPT 1.50-1.89 9,11,11/90 mm HB N=R		1.00		126.50	Silty CLAY: medium plasticity, pale brown to pale grey with iron stained gravels	St - VSt		RESIDUAL SOIL
				1.40		126.10	From 1.40m to 3.10m, ...becoming pale grey to grey, friable with fragments of shale (extremely weathered bedrock)	M < PL	-	
				3.10		124.40	<i>Log continued on next page.</i>			
				4						
				5						
				6						
				7						
				8						
				9						
				10						

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



BOREHOLE CORE LOG

BH ID: BH02

Location 93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW
Client Alton Property Group Pty Ltd
Job No. E26536.G03
Sheets 2 of 4

Started 10 June 2025
Completed 11 June 2025
Logged By PS **Date** 11 June 2025
Review By **Date**

Drilling Contractor Geosense Drilling Engineers
Plant Comacchio Geo 205

Surface RL ≈127.50 m (AHD)
Inclination 90°

Northing 6265342.2624 (MGA 2020 Zone 56)
Easting 315147.0607 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING				
									VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000	3000
				0			Log continued from previous page.													
		100	0	3.52		123.57	SHALE: grey with thin red brown laminations	DW						3.52-3.55: CS IR RO OP						
				3.99		123.57	NO CORE: 200mm thick							3.71-3.90: CZ IR VR OP						
		84	0	4.13		123.37	SILTSTONE: grey to dark grey with thin red brown lamination							4.13-4.67: FZ IR VR OP						
				5				DW						4.77: JT 5° PR RO OP 4.86: BP PR SM 4.93-5.03: FZ 5-15° PR VR OP 5.10-5.30: FZ 5-45° IR VR OP						
				6				DW						5.38: JT 45° PR RO OP 5.43: JT 5° PR RO OP 5.54: JT PR RO OP 5.61: JT 5° PR RO Fe SN 5.69-5.74: CS IR VR crushed shale Infilled 5.82-5.87: CS IR VR crushed siltstone Infilled 5.94-6.14: FZ 5-20° PR RO OP 6.18-6.21: CS IR VR crushed shale Infilled 6.24-6.28: JT 30° CU RO OP 6.37-6.46: CS IR VR OP 6.51: JT 15° PR RO OP 6.58-6.78: FZ 5-45° IR RO CL 6.78-6.80: XWS PR RO Clay VN 6.80-7.12: FZ IR VR OP						
	90%	100	10	7										7.31: JT 2° PR SM OP						
		100	79	8				FR						7.75: JT 10° PR RO OP 8.13: JT 15° PR RO OP 8.28-8.30: JT 10° PR RO OP						
		100	78	9				SW						8.80: JT 45° PR SM OP 8.90: Handling Break 9.00-9.25: SS 45-60° PR RO OP 9.00: JT 15° PR RO OP 9.41: JT 15° PR SM OP						
				10										9.80: JT 10° PR POL OP 9.91-10.00: SSU PR RO						

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



BOREHOLE CORE LOG

BH ID: BH02

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	10 June 2025
Client	Alton Property Group Pty Ltd	Completed	11 June 2025
Job No.	E26536.G03	Logged By	PS Date 11 June 2025
Sheets	3 of 4	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈127.50 m (AHD) Northing 6265342.2624 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90° Easting 315147.0607 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING			
									VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000
NMLC	90%	100	95	10.60		116.90	SILTSTONE: grey to dark grey with thin red brown lamination	FR							10.00-10.20: SZ 5-90° IR VR OP				
				11.00		LAMINITE: fine grained, pale grey sandstone with dark grey siltstone beddings								10.37: JT 5° PR RO OP					
				11.07										10.64: BP SM CL 10.76: JT 2° PR SM OP					
				11.33-11.43										11.00: JT 2° PR SM OP 11.07: JT 40° PR RO OP					
				11.53										11.33-11.43: FZ IR VR fractured siltstone Infilled 11.53: BP PR SM CL 11.60: BP PR SM CL					
		12.74										12.74: BP PR SM CL							
		13.28										13.28: BP PR SM CL							
		13.94										13.94: BP PR SM CL							
		14.28										14.28: JT 2° PR RO OP 14.32: JT 5° PR RO OP							
		14.86										14.86: JT 2° PR RO OP 14.90: JT 5° PR RO OP							
15.21-15.23								15.21-15.23: JT PR RO OP 15.30: BP PR SM CL											
15.74								15.74: JT 10° PR RO SN											
17.51								17.51: JT 20° PR RO SN 17.58: XWS 5° PR RO OP											
18.17								18.17: JT 5° PR RO OP											
18.50								18.50: JT 5° PR RO SN											
19.16-19.32								19.16-19.32: FZ 5-20° PR RO SN											

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



BOREHOLE CORE LOG

BH ID: BH02

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	10 June 2025
Client	Alton Property Group Pty Ltd	Completed	11 June 2025
Job No.	E26536.G03	Logged By	PS Date 11 June 2025
Sheets	4 of 4	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈127.50 m (AHD) Northing 6265342.2624 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90° Easting 315147.0607 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING								
									VL 0-1	L 0-3	M 1	H 3	VH 10	EH		30	100	300	1000	3000				
	90%					106.90	SANDSTONE: fine grained, pale grey with dark grey beddings																	
				21			Terminated at 20.60m. Target Depth Reached.																	
				22																				
				23																				
				24																				
				25																				
				26																				
				27																				
				28																				
				29																				
				30																				

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



BOREHOLE LOG

BH ID: BH03M

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	12 June 2025
Client	Alton Property Group Pty Ltd	Completed	12 June 2025
Job No.	E26536.G03	Logged By	PS Date 12 June 2025
Sheets	1 of 3	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈122.60 m (AHD) Northing 6265307.3869 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90° Easting 315195.0381 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T				0.00		122.60	CONCRETE: 100mm thick	-	-	CONCRETE
		BH03_0.50-0.95 SPT 0.50-0.95 4,4,5 N=9		0.10		122.50	FILL: Silty SAND: medium grained, brown with rootlets and small gravels	M	-	CONCRETE FILL
		BH03_1.50-1.95 SPT 1.50-1.95 5,11,15 N=26		0.80		121.80	Silty CLAY: medium plasticity, red brown to brown trace iron stained gravels	M ≈ PL	St	RESIDUAL SOIL
		BH03_3.00-3.02 SPT 3.00-3.02 3/15 mm HB N=R		1.95		120.65	From 1.95m to 5.30m, ...becoming pale grey, friable with shale fragments (extremely weathered bedrock)	M < PL	-	
				5.30		117.30	<i>Log continued on next page.</i>			

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



BOREHOLE CORE LOG

BH ID: BH03M

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	12 June 2025
Client	Alton Property Group Pty Ltd	Completed	12 June 2025
Job No.	E26536.G03	Logged By	PS Date 12 June 2025
Sheets	2 of 3	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈122.60 m (AHD) Northing 6265307.3869 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90° Easting 315195.0381 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)					DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING					
									VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀		EH	30	100	300	1000	3000
				0			Log continued from previous page.													
NMLC	95%	100	37	6.70	[Graphic Log: Red brown to pale grey, extremely weathered with fractured zones and extremely weathered zones]	115.90	SHALE: red brown to pale grey, extremely weathered with fractured zones and extremely weathered zones	XW												
				7.00		115.90	LAMINITE: red brown when encountered transitioning to pale grey, fine grained sandstone	DW					6.84: JT 2° PR RO SN 6.93: XWS 5° PR VR extremely weathered shale Infilled 7.00: XWS 5° PR VR extremely weathered shale Infilled 7.17-7.58: FZ 5-20° PR VR OP							
		8.38	114.22	SANDSTONE: fine grained, pale grey with dark grey beddings	SW					8.06-8.02: FZ 5-10° PR VR OP 8.35: JT 5-10° PR VR OP 8.52: JT 5° PR RO OP 8.57: JT 2° PR RO OP 8.72: JT 5° PR RO OP 8.88: JT 10° PR RO OP 9.04: JT 5° PR RO OP 9.10: JT 5° PR RO CL 9.16: XWS 5° PR RO Clay VN										
		100	77	9																
				10																

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



BOREHOLE CORE LOG

BH ID: BH03M

Location 93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW
Client Alton Property Group Pty Ltd
Job No. E26536.G03
Sheets 3 of 3

Started 12 June 2025
Completed 12 June 2025
Logged By PS **Date** 12 June 2025
Review By **Date**

Drilling Contractor Geosense Drilling Engineers **Surface RL** ≈122.60 m (AHD) **Northing** 6265307.3869 (MGA 2020 Zone 56)
Plant Comacchio Geo 205 **Inclination** 90° **Easting** 315195.0381 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (m(AHD))	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)							DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING												
									VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH	30		100	300	1000	3000									
	95%	100	100	11		111.40	SANDSTONE: fine grained, pale grey with dark grey beddings	FR																					
				12			Terminated at 11.20m. Target Depth Reached.																						
				13																									
				14																									
				15																									
				16																									
				17																									
				18																									
				19																									
				20																									

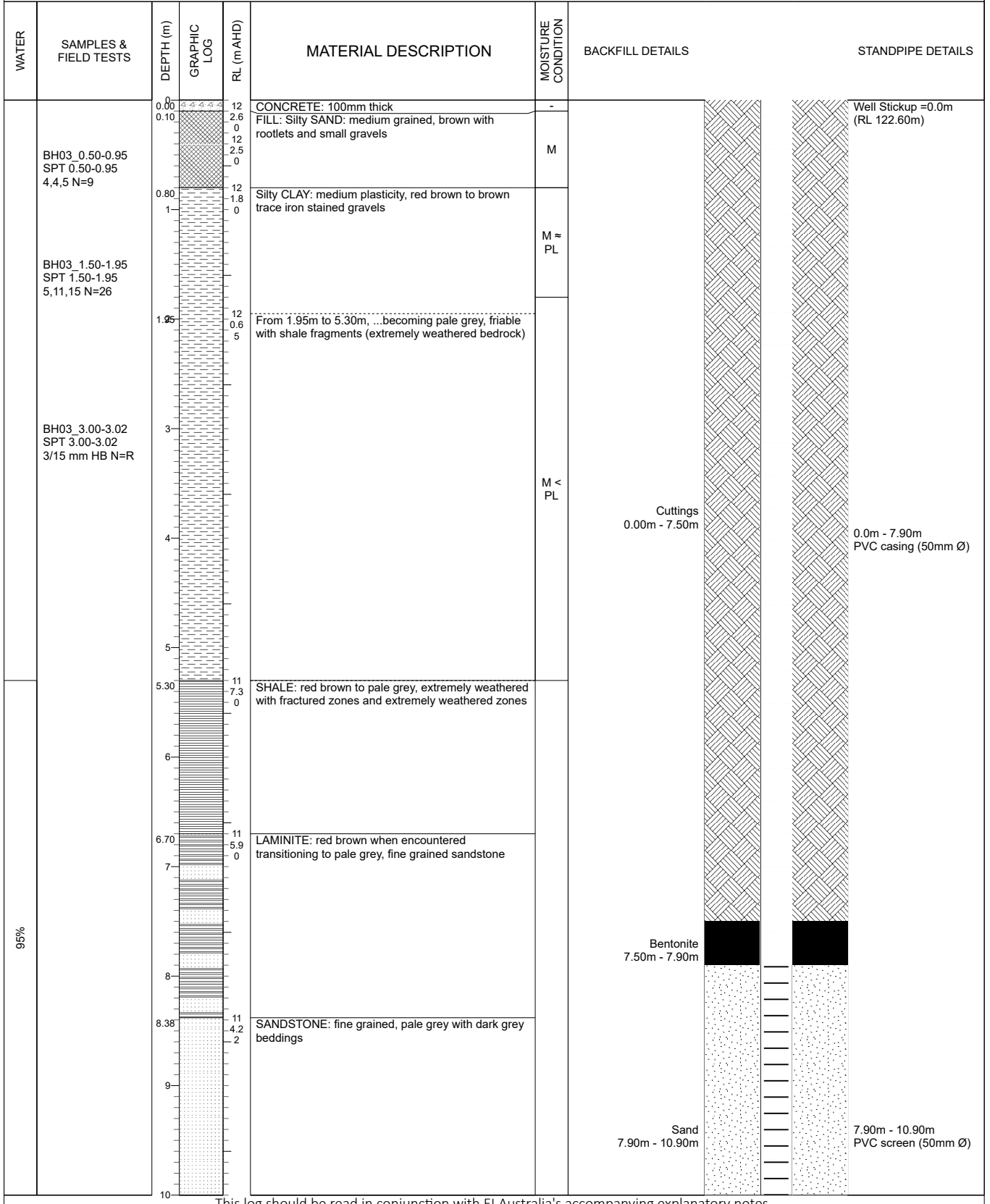
This log should be read in conjunction with EI Australia's accompanying explanatory notes.



MONITORING WELL LOG

BH ID: BH03M

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	12 June 2025
Client	Alton Property Group Pty Ltd	Completed	12 June 2025
Job No.	E26536.G03	Logged By	PS Date 12 June 2025
Sheets	1 of 2	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈122.60 m (AHD) Northing 6265307.3869 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90° Easting 315195.0381 (MGA 2020 Zone 56)



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



MONITORING WELL LOG

BH ID: BH03M

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	12 June 2025
Client	Alton Property Group Pty Ltd	Completed	12 June 2025
Job No.	E26536.G03	Logged By	PS Date 12 June 2025
Sheets	2 of 2	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈122.60 m (AHD) Northing 6265307.3869 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90° Easting 315195.0381 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
95%		11		111.40	SANDSTONE: fine grained, pale grey with dark grey beddings			
		12			Terminated at 11.20m. Target Depth Reached.			
		13						
		14						
		15						
		16						
		17						
		18						
		19						
		20						

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



BOREHOLE LOG

BH ID: BH04

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	18 June 2025
Client	Alton Property Group Pty Ltd	Completed	18 June 2025
Job No.	E26536.G03	Logged By	PS Date
Sheets	1 of 4	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈128.50 m (AHD) Northing
Plant	Comacchio Geo 205	Inclination	90° Easting
			6265329.9832 (MGA 2020 Zone 56)
			315073.3731 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
DT				0.00		128.50	CONCRETE: 200mm thick	-	-	CONCRETE
				0.20		128.30	FILL: Sandy CLAY: medium plasticity, brown to grey with fine gravels		-	FILL
		BH04_ 0.50-0.95 SPT 0.50-0.95 3,4,4 N=8		0.50		128.00	Silty CLAY: medium plasticity, red brown to grey			RESIDUAL SOIL
AD/T		BH04_ 1.50-1.95 SPT 1.50-1.95 7,18,25 N=43		1					F	
		BH04_ 3.00-3.05 SPT 3.00-3.00 2/5 mm HB N=R		2				M = PL		
				3.00		125.50	From 3:00m to 3:05m; ...becoming pale grey, friable inferred extremely weathered bedrock		M < PL	
				3.05		125.45	Log continued on next page.			
				4						
				5						
				6						
				7						
				8						
				9						
				10						

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



BOREHOLE CORE LOG

BH ID: BH04

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	18 June 2025
Client	Alton Property Group Pty Ltd	Completed	18 June 2025
Job No.	E26536.G03	Logged By	PS Date
Sheets	2 of 4	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈128.50 m (AHD) Northing
Plant	Comacchio Geo 205	Inclination	90° Easting
			6265329.9832 (MGA 2020 Zone 56)
			315073.3731 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING				
									VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000	3000
				0			Log continued from previous page.													
				3			SHALE: grey to brown, thinly bedded laminations													
		100	28	3.30				XW					3.30-3.32: XWS PR RO Clay VN							
				3.50									3.50-3.73: XWZ PR VR Clay VN							
				4.28									4.28: XWS 5° PR RO Clay VN							
				4.60									4.60: JT 5° PR VR SN							
				4.80									4.80-5.25: FZ 5-90° IR VR OP							
				5.38			SILTSTONE: dark grey with thinly bedded laminations	DW					5.38: JT 5° PR RO OP							
				5.60									5.60-5.90: FZ 5-45° PR VR OP							
	95%			6.22									6.22-5.39: FZ 5-35° PR RO SN							
				6.82									6.82: JT 2° PR RO OP							
				7.23									7.23: JT 2° PR RO OP							
				7.32									7.32: JT 2° PR VR CL							
				8.07									8.07: JT 10° PR RO OP							
				8.46									8.46: JT 5° PR SM CL							
				8.97									8.97: JT 5° PR RO OP							
				9.22									9.22: JT 5° PR RO OP							
	80%			9.41									9.41: XWS 5° PR VR crushed siltstone Infilled							
				9.69									9.69-9.72: FS 5° PR RO OP							
				9.90									9.90-10.05: FZ 5-15° PR RO OP							

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



BOREHOLE CORE LOG

BH ID: BH04

Location 93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW
Client Alton Property Group Pty Ltd
Job No. E26536.G03
Sheets 3 of 4

Started 18 June 2025
Completed 18 June 2025
Logged By PS
Review By PS
Date PS

Drilling Contractor Geosense Drilling Engineers
Plant Comacchio Geo 205

Surface RL ≈128.50 m (AHD)
Inclination 90°

Northing 6265329.9832 (MGA 2020 Zone 56)
Easting 315073.3731 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)										DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING			
									VL ₀₋₀₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH	30	100	300	1000		3000			
NMLC	80%	100	88	11		113.6	SILTSTONE: dark grey with thinly bedded laminations	SW											10.23: JT 2° PR RO OP 10.47: JT 10° PR RO OP 10.52: JT 10° PR RO OP 10.75: JT 5° PR RO OP 10.90-10.95: FS 5-35° PR VR OP 11.45: JT 5° VR crushed siltstone Infilled 11.75-12.07: FZ 5-90° PR VR OP 12.07: JT 10° PR RO OP 12.30: JT 45° PR RO OP 12.45: JT 45° PR RO OP 12.60: JT 5° PR RO OP 12.74-12.90: FZ 5-15° PR VR OP 13.20: BP 0° PR SM CL 13.55: JT 5° PR RO OP 13.63: JT 5° PR RO CL 14.00-14.24: FZ 5-45° IR VR OP 14.42: JT 10° PR RO OP 14.71-14.84: FZ 5-15° PR VR OP 15.22: JT 5° PR RO OP 15.37: JT 5° PR RO CL 15.56: JT 2° PR RO OP 15.96: JT 20° PR RO OP 16.69: BP 0° PR SM CL 16.96: JT 5° PR RO OP 18.17: JT 2° PR RO OP 19.58: JT 2° PR RO OP 19.65: XWS 5° PR RO Clay VN 19.87: JT 5° PR RO OP				
		100	75	13			LAMINITE: fine grained, pale grey sandstone with siltstone beddings		FR														
		100	93	16																			
		100	98	19																			

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



BOREHOLE CORE LOG

BH ID: BH04

Location 93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started 18 June 2025
Client Alton Property Group Pty Ltd	Completed 18 June 2025
Job No. E26536.G03	Logged By PS Date
Sheets 4 of 4	Review By Date

Drilling Contractor Geosense Drilling Engineers	Surface RL ≈128.50 m (AHD)	Northing 6265329.9832 (MGA 2020 Zone 56)
Plant Comacchio Geo 205	Inclination 90°	Easting 315073.3731 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING						
	80%				█	107.9 5	LAMINITE: fine grained, pale grey sandstone with siltstone beddings		VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH	20.27: BP 0° PR SM CL							
					█		Terminated at 20.55m. Target Depth Reached.								20.44: JT 2° PR RO OP							
				21																		
				22																		
				23																		
				24																		
				25																		
				26																		
				27																		
				28																		
				29																		
				30																		

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



BOREHOLE LOG

BH ID: BH05

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	16 June 2025
Client	Alton Property Group Pty Ltd	Completed	16 June 2025
Job No.	E26536.G03	Logged By	PS Date
Sheets	1 of 3	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈126.20 m (AHD) Northing
Plant	Comacchio Geo 205	Inclination	90° Easting
			6265311.0361 (MGA 2020 Zone 56)
			315125.0431 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	GWNE	BH05_0.50-0.95 SPT 0.50-0.95 3,6,8 N=14		0.00		126.20	FILL: Silty SAND: medium grained, brown with rootlets and gravels	M	-	FILL
		BH05_1.50-1.55 SPT 1.50-1.55 6/50 mm HB N=R		0.60		125.60	Silty CLAY: medium plasticity, brown to red brown	M = PL		RESIDUAL SOIL
		BH05_3.00-3.01 SPT 3.00-3.01 2/10 mm N=R		1.20		125.00	From 1.20m to 4.34m, ... becoming grey to pale grey, friable with fragments of shale (extremely weathered bedrock)	M < PL		
				3.00		121.86	<i>Log continued on next page.</i>			
				4.34						
				5						
				6						
				7						
				8						
				9						
				10						

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



BOREHOLE CORE LOG

BH ID: BH05

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	16 June 2025
Client	Alton Property Group Pty Ltd	Completed	16 June 2025
Job No.	E26536.G03	Logged By	PS Date
Sheets	2 of 3	Review By	Date

Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈126.20 m (AHD)	Northing	6265311.0361 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90°	Easting	315125.0431 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING													
									VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000	3000									
				0			<i>Log continued from previous page.</i>																						
				5			SHALE: grey to brown with red brown lamination	XW																					
		100	0	5.60		120.6	NO CORE: 170mm thick	-																					
				5.77		120.4	SILTSTONE: dark grey with thin bedding	XW																					
		88	21	6				DW																					
	95%			7																									
		100	74	8				DW - SW																					
				9																									
				10																									

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



BOREHOLE CORE LOG

BH ID: BH05

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	16 June 2025
Client	Alton Property Group Pty Ltd	Completed	16 June 2025
Job No.	E26536.G03	Logged By	PS Date
Sheets	3 of 3	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈126.20 m (AHD) Northing
Plant	Comacchio Geo 205	Inclination	90° Easting
			6265311.0361 (MGA 2020 Zone 56) 315125.0431 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)							DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING							
									Vl ₀₋₀₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH	30		100	300	1000	3000				
NMLC	95%	100	98	11		114.95	SILTSTONE: dark grey with thin bedding	FR																
							12				LAMINITE: fine grained, pale grey sandstone with siltstone beddings													
							13																	
							14																	
							15																	
							16																	
							17																	
							18																	
							18			107.90	Terminated at 18.30m. Target Depth Reached.													
							19																	
							20																	

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



BOREHOLE LOG

BH ID: BH06

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	13 June 2025
Client	Alton Property Group Pty Ltd	Completed	16 June 2025
Job No.	E26536.G03	Logged By	PS Date 16 June 2025
Sheets	1 of 3	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈123.00 m (AHD) Northing 6265299.9705 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90° Easting 315166.6520 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T		BH06_0.50-0.95 SPT 0.50-0.95 3.2.7 N=9		0.00 0.10		123.00 122.90	BRICK: 100mm thick FILL: Silty SAND: brown to red brown with rootlets and small gravels	- M	-	BRICK FILL
		SPT 1.50-1.74 6,8/90 mm HB N=R		0.80 0.80		122.20	Silty CLAY: medium plasticity, brown to red brown	M = PL	St	RESIDUAL SOIL
				1.74		121.26	From 1.74m to 7.30m, ... becoming pale grey, friable with fragments of shale (extremely weathered bedrock) <i>Log continued on next page.</i>			

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



BOREHOLE CORE LOG

BH ID: BH06

Location 93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started 13 June 2025
Client Alton Property Group Pty Ltd	Completed 16 June 2025
Job No. E26536.G03	Logged By PS Date 16 June 2025
Sheets 2 of 3	Review By Date
Drilling Contractor Geosense Drilling Engineers	Surface RL ≈123.00 m (AHD) Northing 6265299.9705 (MGA 2020 Zone 56)
Plant Comacchio Geo 205	Inclination 90° Easting 315166.6520 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING			
									VL ₀₋₀₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000
				0			<i>Log continued from previous page.</i>												
		100	0	7.10			SILTSTONE: dark grey with iron stained laminations	XW											
				7.30		115.70	NO CORE: 300mm thick	DW											
				7.60		115.40	SILTSTONE: dark grey with red brown lamination	-											
		80	29	8.52				XW											
				8.69			LAMINITE: fine grained, pale grey sandstone with dark grey siltstone bands												
				8.75															
				8.88															
				9.20															
				9.67															
				9.82															

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



BOREHOLE CORE LOG

BH ID: BH06

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	13 June 2025
Client	Alton Property Group Pty Ltd	Completed	16 June 2025
Job No.	E26536.G03	Logged By	PS Date 16 June 2025
Sheets	3 of 3	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈123.00 m (AHD) Northing 6265299.9705 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90° Easting 315166.6520 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING				
									VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000	3000
NMLC		100	68	11			LAMINITE: fine grained, pale grey sandstone with dark grey siltstone bands	SW							9.94-9.02: FS 2-10° PR RO CL					
		100	94	12												10.08: XWS PR RO Clay VN				
		100	100	13													10.15: JT 2° PR RO OP			
				14										10.29: JT 2° PR RO OP						
				15		108.00	Terminated at 15.00m. Target Depth Reached.								10.45: JT 2° PR RO OP					
				16										10.49: JT 5° PR RO OP						
				17										10.81: JT 2° PR RO OP						
				18										10.92-11.10: FS 2-15° PR RO OP						
				19										11.51-11.61: FS 2-10° PR RO OP						
				20										11.95: FS 5° PR VR OP						
														12.41: JT 5° PR RO OP						
														13.29: FS 5-90° PR RO OP						

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



BOREHOLE LOG

BH ID: BH07

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	18 June 2025
Client	Alton Property Group Pty Ltd	Completed	19 June 2025
Job No.	E26536.G03	Logged By	PS Date 19 June 2025
Sheets	1 of 3	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈125.50 m (AHD) Northing 6265299.2590 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90° Easting 315049.0624 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	GWNE	BH07_0.50-0.95 SPT 0.50-0.95 3,6,8 N=14		0.00		125.50	TOPSOIL: Silty SAND: fine to medium grained, brown to dark brown with rootlets and gravels	M	-	TOPSOIL
		BH07_1.50-1.65 SPT 1.50-1.65 6/150 mm N=R		0.60		124.90	Silty CLAY: medium plasticity, red brown to pale grey	M = PL	St	RESIDUAL SOIL
				1.20		124.30	From 1.20m to 4.60m, ... becoming pale grey, friable fragments of shale (extremely weathered bedrock)	M < PL	-	
				4.60		120.90	<i>Log continued on next page.</i>			
				5.00						
				6.00						
				7.00						
				8.00						
				9.00						
				10.00						

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



BOREHOLE CORE LOG

BH ID: BH07

Location 93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW Client Alton Property Group Pty Ltd Job No. E26536.G03 Sheets 2 of 3	Started 18 June 2025 Completed 19 June 2025 Logged By PS Date 19 June 2025 Review By Date
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Drilling Contractor Geosense Drilling Engineers	Surface RL ≈125.50 m (AHD)	Northing 6265299.2590 (MGA 2020 Zone 56)
Plant Comacchio Geo 205	Inclination 90°	Easting 315049.0624 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
				0			<i>Log continued from previous page.</i>				
				1							
				2							
				3							
				4							
				5	118.9		SHALE: brown to grey, thinly laminated	XW	▾	5.55: XWS 5° PR VR crushed siltstone Infilled 5.62-6.55: FZ 5-20° PR VR OP 5.87-5.95: CS IR VR Infilled	
				6				DW			
				6.55	5		SILTSTONE: dark grey, thinly laminated		▾	6.79: BP 5° PR CL 7.15: BP 5° PR SM CL 7.22: JT 10° PR RO OP 7.53: BP 2° PR SM CL	
				7							
		95%		8				DW - SW		8.24: JT 5° PR RO OP 8.31: XWS 10° PR VR OP 8.52: JT 5° PR RO OP 8.77: XWS 5° PR VR OP	
				9					▾	9.27-9.31: FS 5-90° IR VR OP 9.77-10.31: FZ 5-90° IR VR OP	
				10							

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



BOREHOLE CORE LOG

BH ID: BH07

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	18 June 2025
Client	Alton Property Group Pty Ltd	Completed	19 June 2025
Job No.	E26536.G03	Logged By	PS
Sheets	3 of 3	Date	19 June 2025
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈125.50 m (AHD)
		Northing	6265299.2590 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90°
		Easting	315049.0624 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING							
									VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000	3000			
NMLC	95%	100	100	11		111.80	SILTSTONE: dark grey, thinly laminated	FR							10.55: JT 45° PR RO OP	10.72-10.90: SSU PR RO CL 11.25: JT 5-45° IR RO OP 11.82: JT 2° PR SM CL 11.95: JT 2° PR RO CL 12.60: JT 45° PR RO CL 12.70: JT 45° PR SM CL 13.28: JT 2° PR RO OP 14.73: JT 2° PR RO OP 14.83: BP 0° PR SM CL 15.55: JT 2° PR RO OP 15.80: JT 2° PR RO OP 15.90: XWS 5° PR VR OP 15.95-15.98: XWS 5-15° PR VR Clay VN 16.85-16.93: SZ 5° PR VR OP 17.25: JT 5° PR RO OP 17.45: JT 5° PR RO CL 17.83: JT 5° PR RO OP							
				12			LAMINITE: fine grained, pale grey sandstone with siltstone beddings																
				13																			
				14																			
				15																			
				16																			
		17	100	100																			
		18																					
		19																					
		20																					
		Terminated at 18.30m. Target Depth Reached.																					

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



BOREHOLE LOG

BH ID: BH08M

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	16 June 2025
Client	Alton Property Group Pty Ltd	Completed	16 June 2025
Job No.	E26536.G03	Logged By	PS Date
Sheets	1 of 3	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈117.50 m (AHD)
Plant	Comacchio Geo 205	Inclination	90°
		Northing	6265228.0177 (MGA 2020 Zone 56)
		Easting	315115.7959 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
DT				0.00		117.50	BRICK: 100mm thick			BRICK
				0.10		117.40	CONCRETE: 100mm thick			CONCRETE
				0.20		117.30	FILL: Sandy CLAY: low to medium plasticity, brown with gravels			FILL
			BH08M_0.50-0.95 SPT 0.50-0.95 4,5,6 N=11	0.50		117.00	Silty CLAY: medium plasticity, red brown to pale grey	M = PL	St	RESIDUAL SOIL
ADT		BH08M_1.50-1.70 SPT 1.50-1.70 7,11/50 mm N=R		1.40		116.10	From 1.40m to 5.55m, ... becoming grey to pale grey, friable, with fragments of shale (extremely weathered bedrock)			
		BH08M_3.00-3.01 SPT 3.00-3.01 2/10 mm HB N=R		3.00						
		BH08M_4.50-4.51 SPT 4.50-4.51 3/10 mm HB N=R		4.50						
				5.55		111.95	Log continued on next page.			

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



BOREHOLE CORE LOG

BH ID: BH08M

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	16 June 2025
Client	Alton Property Group Pty Ltd	Completed	16 June 2025
Job No.	E26536.G03	Logged By	PS Date
Sheets	2 of 3	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈117.50 m (AHD) Northing
Plant	Comacchio Geo 205	Inclination	90° Easting
			6265228.0177 (MGA 2020 Zone 56)
			315115.7959 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING					
									VL ₀₋₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000	3000	
				0			Log continued from previous page.														
				1																	
				2																	
				3																	
				4																	
				5																	
				6			LAMINITE: fine grained, pale grey with dark grey siltstone beddings						5.60: JT -2° PR RO SN 5.72: JT -2° PR SM CN 5.87: XWS -5° PR RO Clay VN 5.98: JT -10° PR RO OP								
		100	65	7									6.05-6.09: SSU PR VR OP 6.20: JT -2° PR SM Clay VN 6.60: JT 45° PR RO CL								
				8				SW					6.95: JT 5° PR RO OP 7.23-7.36: JT 15-2° PR RO OP 7.70-7.85: JT 15-2° PR RO OP								
	95%			9									8.85: JT -5° PR RO OP 9.15: JT -5° PR SM OP								
NMLC		100	89	10									9.77: JT -2° PR SM OP 9.81: JT -2° PR SM OP								

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



BOREHOLE CORE LOG

BH ID: BH08M

Location 93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started 16 June 2025
Client Alton Property Group Pty Ltd	Completed 16 June 2025
Job No. E26536.G03	Logged By PS Date
Sheets 3 of 3	Review By Date

Drilling Contractor Geosense Drilling Engineers	Surface RL ≈117.50 m (AHD)	Northing 6265228.0177 (MGA 2020 Zone 56)
Plant Comacchio Geo 205	Inclination 90°	Easting 315115.7959 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50) ▼ - Axial ▽ - Diametral	DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING
									VL ₀₋₁ L ₀₋₃ M ₁ H ₃ VH ₁₀ EH		30 100 300 1000 3000
				107.50			Terminated at 10.00m. Target Depth Reached.				
				11							
				12							
				13							
				14							
				15							
				16							
				17							
				18							
				19							
				20							

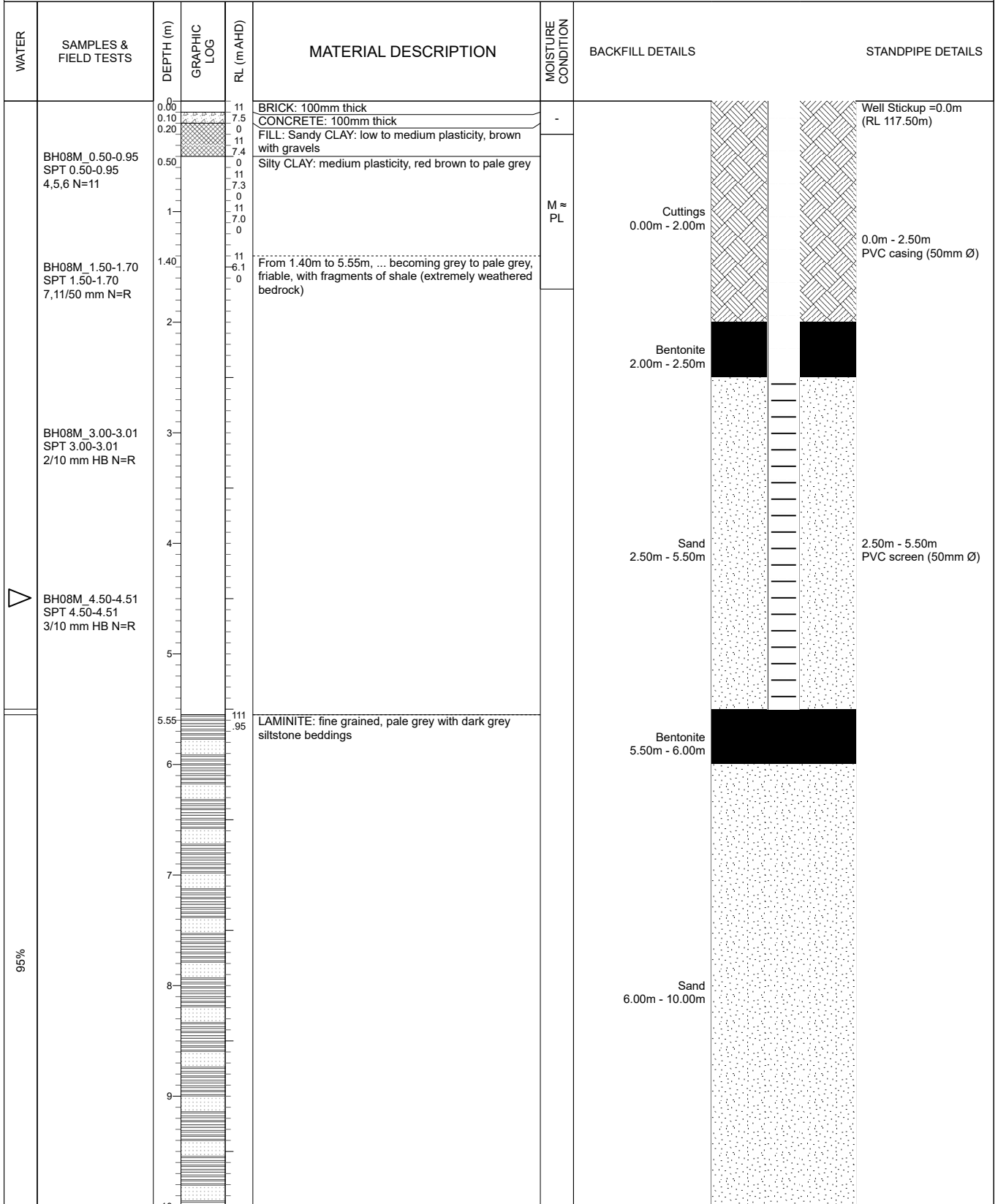
This log should be read in conjunction with EI Australia's accompanying explanatory notes.



MONITORING WELL LOG

BH ID: BH08M

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	16 June 2025
Client	Alton Property Group Pty Ltd	Completed	16 June 2025
Job No.	E26536.G03	Logged By	PS
Sheets	1 of 2	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈117.50 m (AHD)
		Northing	6265228.0177 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90°
		Easting	315115.7959 (MGA 2020 Zone 56)



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



MONITORING WELL LOG

BH ID: BH08M

Location 93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW
Client Alton Property Group Pty Ltd
Job No. E26536.G03
Sheets 2 of 2

Started 16 June 2025
Completed 16 June 2025
Logged By PS **Date**
Review By **Date**

Drilling Contractor Geosense Drilling Engineers **Surface RL** ≈117.50 m (AHD) **Northing** 6265228.0177 (MGA 2020 Zone 56)
Plant Comacchio Geo 205 **Inclination** 90° **Easting** 315115.7959 (MGA 2020 Zone 56)

WATER	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	BACKFILL DETAILS	STANDPIPE DETAILS
		10 7.5 0			Terminated at 10.00m. Target Depth Reached.			
		11						
		12						
		13						
		14						
		15						
		16						
		17						
		18						
		19						
		20						

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



BOREHOLE LOG

BH ID: BH09

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	11 June 2025
Client	Alton Property Group Pty Ltd	Completed	11 June 2025
Job No.	E26536.G03	Logged By	PS Date 11 June 2025
Sheets	1 of 2	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈118.00 m (AHD) Northing 6265237.8570 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90° Easting 315160.4573 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	GWNE	BH09_0.50-0.95 SPT 0.50-0.95 3.5,6 N=11		0.00		118.00	TOPSOIL: Silty SAND: fine grained, dark grey with rootlets and small gravels	M	-	TOPSOIL
		BH09_1.50-1.53 SPT 1.50-1.53 3/30 mm HB N=R		0.80		117.20	Silty CLAY: medium to high plasticity, red brown transitioning to pale grey	M = PL	St	RESIDUAL SOIL
		BH09_3.00-3.01 SPT 3.00-3.01 2/10 mm HB N=R		1.30		116.70	From 1.30m to 5.10m, ... becoming pale grey, friable (extremely weathered bedrock)			
		BH09_4.50-4.51 SPT 4.50-4.51 2/10 mm HB N=R		3.00		5.10	112.90		M < PL	-
				5.10			Log continued on next page.			

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



BOREHOLE CORE LOG

BH ID: BH09

Location	93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW	Started	11 June 2025	
Client	Alton Property Group Pty Ltd	Completed	11 June 2025	
Job No.	E26536.G03	Logged By	PS	Date 11 June 2025
Sheets	2 of 2	Review By	Date	

Drilling Contractor	Geosense Drilling Engineers	Surface RL	≈118.00 m (AHD)	Northing	6265237.8570 (MGA 2020 Zone 56)
Plant	Comacchio Geo 205	Inclination	90°	Easting	315160.4573 (MGA 2020 Zone 56)

METHOD	Flush Return	TCR %	RQD %	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	WEATHERING	ESTIMATED STRENGTH Is(50)						DISCONTINUITIES & ADDITIONAL DATA	FRACTURE SPACING				
									VL ₀₋₀₁	L ₀₋₃	M ₁	H ₃	VH ₁₀	EH		30	100	300	1000	3000
				0			Log continued from previous page.													
NMLC	95%	100	25	5.71		109.90	LAMINITE: dark grey to red brown shale when encountered transitioning to fine grained sandstone with siltstone beddings	SW						5.71-6.00: FZ 5-15° PR VR Clay VN						
		100	70	6.13			6.13: JT 10° PR RO SN 6.23-6.74: FZ 5-20° PR VR Infilled													
				7.07										7.07: JT 5° PR RO OP 7.14: JT 5° PR RO OP 7.23: JT 5° PR RO OP 7.42: JT 15° PR RO OP 7.56: XWS 2° PR VR Clay VN 7.70: JT 5° PR SM OP						
				8.10			Terminated at 8.10m. Target Depth Reached.													

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



BOREHOLE LOG

BH ID: BH10

Location	93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started	10 June 2025
Client	Alton Property Group	Completed	10 June 2025
Job No.	E26536.E02	Logged By	AH Date 10 June 2025
Sheets	1 of 1	Review By	Date

Drilling Contractor	-	Surface RL	-	Northing	6265376.4000 (MGA 2020 Zone 56)
Plant	Hand Auger	Inclination	90°	Easting	315092.8000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	BH10_0.1-0.2		0.00			FILL: Sandy SILT: low to medium plasticity, dark brown, fine grained gravels with rootlets, No odour	M	D	FILL
		BH10_0.7-0.8		0.60			CLAY: high plasticity, reddish brown, No odour	D	D	NATURAL
				1			Terminated at 1.00m. Target depth reached.			

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



BOREHOLE LOG

BH ID: BH11

Location	93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started	10 June 2025
Client	Alton Property Group	Completed	10 June 2025
Job No.	E26536.E02	Logged By	AH Date 10 June 2025
Sheets	1 of 1	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	-
Plant	Ute-Mounted Rig	Inclination	90°
		Northing	6265338.8000 (MGA 2020 Zone 56)
		Easting	315127.3000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
ADT	GWNE	BH11_0.10-0.20 PID = 0.4	█	0.00	[Pattern]		FILL: Silty SAND: brown, fine to medium grained, low plasticity, minor gravels with rootlets, No odour	M	L	FILL
		BH11_0.60-0.70 PID = 0.8	█	0.50	[Pattern]		CLAY: medium to high plasticity, grey mottled orange, No odour	D	D	NATURAL
				1			Terminated at 1.00m. Target Depth Reached.			
				2						
				3						
				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: BH12

Location	93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started	10 June 2025
Client	Alton Property Group	Completed	10 June 2025
Job No.	E26536.E02	Logged By	AH Date 10 June 2025
Sheets	1 of 1	Review By	Date

Drilling Contractor	-	Surface RL	-	Northing	6265319.7000 (MGA 2020 Zone 56)
Plant	Hand Auger	Inclination	90°	Easting	315121.6000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	BH12_0.10-0.20 PID = 0.5	█	0.00			FILL: Silty SAND: fine to medium grained, low plasticity, brown with rootlets, No odour	D	L	FILL
		BH12_0.50-0.60 PID = 0.4	█	0.40			CLAY: medium to high plasticity, grey mottled orange, No odour	D	D	NATURAL
				1			Terminated at 1.00m. Target Depth Reached.			
				2						
				3						
				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: BH13

Location 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started 10 June 2025
Client Alton Property Group	Completed 10 June 2025
Job No. E26536.E02	Logged By AH Date 10 June 2025
Sheets 1 of 1	Review By Date

Drilling Contractor -	Surface RL -	Northing 6265303.6000 (MGA 2020 Zone 56)
Plant Hand Auger	Inclination 90°	Easting 315148.3000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	BH13_0.20-0.30 PID = 0.1		0.00			FILL: Sandy SILT: medium to high plasticity, fine to medium grained, dark brown with brick metals, angular to sub-angular gravels, No odour	M	L	FILL
				1			Terminated at 0.60m. Refusal.			
				2						
				3						
				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: BH15

Location 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started 11 June 2020
Client Alton Property Group	Completed 11 June 2025
Job No. E26536.E02	Logged By AH Date 11 June 2025
Sheets 1 of 1	Review By Date

Drilling Contractor -	Surface RL -	Northing 6265296.8000 (MGA 2020 Zone 56)
Plant Hand Auger	Inclination 90°	Easting 315177.4000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	BH15_0.10-0.20 PID = 0.3	█	0.00			FILL: Sandy SILT: medium plasticity, dark brown, fine grained with rootlets, ash and slag, No odour	M	L	FILL
		BH15_0.50-0.60 PID = 0.1	█	0.40			CLAY: high plasticity, reddish brown, No odour	D	D	NATURAL
				1			Terminated at 0.90m. Target Depth Reached.			
				2						
				3						
				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: BH16

Location	93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started	10 June 2025
Client	Alton Property Group	Completed	10 June 2025
Job No.	E26536.E02	Logged By	AH Date 10 June 2025
Sheets	1 of 1	Review By	Date

Drilling Contractor	-	Surface RL	-	Northing	6265290.7000 (MGA 2020 Zone 56)
Plant	Hand Auger	Inclination	90°	Easting	315210.6000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	BH16_0.20-0.30 PID = 0.1		0.00			FILL: Sandy SILT: medium plasticity, dark brown, fine grained with rootlets, No odour	M	L	FILL
				1			Terminated at 0.50m. Target Depth Reached.			
				2						
				3						
				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: BH17

Location 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started 10 June 2025
Client Alton Property Group	Completed 10 June 2025
Job No. E26536.E02	Logged By AH Date 10 June 2025
Sheets 1 of 1	Review By Date

Drilling Contractor -	Surface RL -	Northing 6265344.7000 (MGA 2020 Zone 56)
Plant Hand Auger	Inclination 90°	Easting 315069.6000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	BH17_0.10-0.20 PID = 0.2	█	0.00			FILL: Sandy SILT: medium plasticity, reddish brown, fine grained, with rootlets, No odour	M	L	FILL
		BH17_0.60-0.70 PID = 0.3	█	0.50			CLAY: high plasticity, reddish brown, No odour	D	D	NATURAL
				1			Terminated at 0.80m. Target Depth Reached.			
				2						
				3						
				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: BH18

Location 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started 10 June 2025
Client Alton Property Group	Completed 10 June 2025
Job No. E26536.E02	Logged By AH Date 10 June 2025
Sheets 1 of 1	Review By Date

Drilling Contractor -	Surface RL -	Northing 6265321.9000 (MGA 2020 Zone 56)
Plant Hand Auger	Inclination 90°	Easting 315051.7000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	EH18_0.10-0.20 PID = 0.1	█	0.00			FILL: Sandy SILT: medium to high plasticity, reddish brown, fine grained, with rootlets, No odour	M	L	FILL
		EH18_0.40-0.50 PID = 0	█	0.40			CLAY: high plasticity, grey mottled brown, No odour	D	D	NATURAL
				1			Terminated at 0.60m. Target Depth Reached.			
				2						
				3						
				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: BH19

Location	93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started	10 June 2025
Client	Alton Property Group	Completed	10 June 2025
Job No.	E26536.E02	Logged By	AH Date 10 June 2025
Sheets	1 of 1	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	-
Plant	Ute-Mounted Rig	Inclination	90°
		Northing	6265316.8000 (MGA 2020 Zone 56)
		Easting	315093.8000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
ADT	GWNE	BH19_0.20-0.30 PID = 0.2	█	0.00	[Pattern]		FILL: Sandy SILT: medium plasticity, fine grained, dark brown with rootlets, No odour	M	L	FILL
		BH19_0.60-0.70 PID = 0.1	█	0.60	[Pattern]		CLAY: medium to high plasticity, orange mottled grey, No odour	D	D	NATURAL
				1			Terminated at 1.00m. Target Depth Reached.			
				2						
				3						
				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: BH20

Location 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started 10 June 2025
Client Alton Property Group	Completed 10 June 2025
Job No. E26536.E02	Logged By AH Date 10 June 2025
Sheets 1 of 1	Review By Date

Drilling Contractor -	Surface RL -	Northing 6265289.7000 (MGA 2020 Zone 56)
Plant Hand Auger	Inclination 90°	Easting 315124.6000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	BH20_0.10-0.20 PID = 0.2	█	0.00			FILL: Sandy SILT: medium plasticity, fine grained, with rootlets, No odour	M	L	FILL
		BH20_0.60-0.70 PID = 0.1	█	0.40			CLAY: medium to high plasticity, reddish brown, No odour	D	D	NATURAL
				1			Terminated at 0.80m. Target Depth Reached.			
				2						
				3						
				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: BH21

Location 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started 11 June 2020
Client Alton Property Group	Completed 11 June 2025
Job No. E26536.E02	Logged By AH Date 11 June 2025
Sheets 1 of 1	Review By Date

Drilling Contractor -	Surface RL -	Northing 6265264.5000 (MGA 2020 Zone 56)
Plant Hand Auger	Inclination 90°	Easting 315141.4000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	BH21_0.10-0.20 PID = 0	█	0.00			FILL: Sandy SILT: medium to high plasticity, dark brown, fine grained with rootlets, No odour	M	L	FILL
		BH21_0.30-0.40 PID = 0.1	█	0.20			CLAY: high plasticity, reddish brown, mottled grey, No odour	D	D	NATURAL
				1			Terminated at 0.50m. Target Depth Reached.			
				2						
				3						
				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: BH22

Location	93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started	11 June 2020
Client	Alton Property Group	Completed	11 June 2025
Job No.	E26536.E02	Logged By	AH Date 11 June 2025
Sheets	1 of 1	Review By	Date

Drilling Contractor	-	Surface RL	-	Northing	6265268.4000 (MGA 2020 Zone 56)
Plant	Hand Auger	Inclination	90°	Easting	315189.8000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	BH22_0.10-0.20 PID = 0.1	█	0.00			FILL: Sandy SILT: medium to high plasticity, dark brown, fine grained, sub-angular gravels with rootlets, No odour	M	L	FILL
		BH22_0.40-0.50 PID = 0	█	0.40			CLAY: high plasticity, reddish brown, mottled grey, No odour	M	D	NATURAL
				1			Terminated at 0.70m. Target Depth Reached.			
				2						
				3						
				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: BH23

Location	93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started	10 June 2025
Client	Alton Property Group	Completed	10 June 2025
Job No.	E26536.E02	Logged By	AH Date 10 June 2025
Sheets	1 of 1	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	-
Plant	Ute-Mounted Rig	Inclination	90°
		Northing	6265250.6000 (MGA 2020 Zone 56)
		Easting	315176.9000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
ADT	GWNE	BH23 0.10-0.20 PID = 0.2	█	0.00			FILL: Sandy SILT: medium plasticity, fine grained, dark brown, No odour	D	L	FILL
		BH23 0.50-0.60 PID = 0.6	█	0.40			CLAY: medium to high plasticity, brown, No odour	D	D	NATURAL
				1			Terminated at 1.00m. Target Depth Reached.			
				2						
				3						
				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: BH24

Location	93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started	10 June 2025
Client	Alton Property Group	Completed	10 June 2025
Job No.	E26536.E02	Logged By	AH Date 10 June 2025
Sheets	1 of 1	Review By	Date

Drilling Contractor	-	Surface RL	-	Northing	6265290.4000 (MGA 2020 Zone 56)
Plant	Hand Auger	Inclination	90°	Easting	315073.0000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	BH24_0.10-0.20 PID = 0.3	█	0.00	[Pattern]		FILL: Sandy SILT: medium plasticity, fine grained, dark brown with rootlets, No odour	D	L	FILL
		BH24_0.80-0.90 PID = 0.3	█	0.80	[Pattern]		CLAY: medium to high plasticity, brown, No odour	D	D	NATURAL
Terminated at 1.20m. Target Depth Reached.										

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



BOREHOLE LOG

BH ID: BH25

Location 93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started 10 June 2025
Client Alton Property Group	Completed 10 June 2025
Job No. E26536.E02	Logged By AH Date 10 June 2025
Sheets 1 of 1	Review By Date

Drilling Contractor -	Surface RL -	Northing 6265266.2000 (MGA 2020 Zone 56)
Plant Hand Auger	Inclination 90°	Easting 315054.9000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
HA	GWNE	BH25 0.10-0.20 PID = 0.2		0.00			FILL: Sandy SILT: medium plasticity, fine grained, with rootlets, No odour	M	L	FILL
				1			Terminated at 0.40m. Refusal.			
				2						
				3						
				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: BH26

Location	93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started	10 June 2025
Client	Alton Property Group	Completed	10 June 2025
Job No.	E26536.E02	Logged By	AH Date 10 June 2025
Sheets	1 of 1	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	-
Plant	Ute-Mounted Rig	Inclination	90°
		Northing	6265245.2000 (MGA 2020 Zone 56)
		Easting	315100.4000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T	GWNE	BH26_0.00-0.10 PID = 4.5	█	0.00	[Pattern]		FILL: Sandy SILT: medium to high plasticity, dark brown, fine grained, minor sub-angular gravels with rootlets, No odour CLAY: medium to high plasticity, orange, No odour	M	L	FILL
		BH26_0.40-0.50 PID = 0.3	█	0.20	[Pattern]			D	D	RESIDUAL SOIL
				1			Terminated at 1.00m. Target Depth Reached.			
				2						
				3						
				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: BH27

Location	93-107 Cecil Avenue and 9-10 Roger Avenue, Castle Hill, NSW	Started	10 June 2025
Client	Alton Property Group	Completed	10 June 2025
Job No.	E26536.E02	Logged By	AH Date 10 June 2025
Sheets	1 of 1	Review By	Date
Drilling Contractor	Geosense Drilling Engineers	Surface RL	-
Plant	Ute-Mounted Rig	Inclination	90°
		Northing	6265239.3000 (MGA 2020 Zone 56)
		Easting	315121.4000 (MGA 2020 Zone 56)

METHOD	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	SAMPLE RECOVERY	DEPTH (m)	GRAPHIC LOG	RL (mAHD)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY / REL. DENSITY	MATERIAL ORIGIN & OBSERVATIONS
AD/T		BH27_0.00-0.10 PID = 0.4	█	0.00			FILL: SILT: medium to high plasticity, dark brown with rootlets, No odour	D	L	FILL RESIDUAL SOIL
		BH27_0.40-0.50 PID = 0.2	█	0.40			CLAY: high plasticity, No odour From 0.40m to 0.60m, grey mottled orange, No odour			
				0.60			From 0.60m to 1.00m, grey, No odour	D	D	
				1.00			Terminated at 1.00m. Target Depth Reached.			

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

Appendix E – Calibration Form and Field Data
Sheets



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T 02 9516 0722

CALIBRATION CERTIFICATE FOR PHOTO IONISATION DETECTOR

Instrument: Mini RAE 3000

Serial Number: 592-906667 - EI PID02 OR 592-901345 - EI PID03 OR _____ EI PID _____

Instrument Conditions: good

Calibration gas species: Isobutylene.

Calibration gas concentration: 100 ppm

Gas bottle number: W0402006-10

This PID has been calibrated to Isobutylene gas with the span concentration displayed as 99.5 ppm at 100 ppm span setting (allowable range +/-10ppm from span setting).

The PID is initially zero calibrated in fresh air.

Remaining gas in bottle: 400 psi (if reading is <250 psi, notify Equipment Manager to arrange new gas bottle order)

The above detector was calibrated in accordance with manufacturer's specifications.

Signed: AH

Date: 10/06/25

Time: 0730



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CALIBRATION CERTIFICATE FOR PHOTO IONISATION DETECTOR

Instrument: Mini RAE 3000

Serial Number: 592-906667 - EI PID02 OR 592-901345 - EI PID03 OR _____ EI PID__

Instrument Conditions: Good

Calibration gas species: Isobutylene.

Calibration gas concentration: 100 ppm

Gas bottle number: W0388602-3

This PID has been calibrated to Isobutylene gas with the span concentration displayed as 100.7 ppm at 100 ppm span setting (allowable range +/-10ppm from span setting).

The PID is initially zero calibrated in fresh air.

Remaining gas in bottle: 200 psi (if reading is <250 psi, notify Equipment Manager to arrange new gas bottle order)

The above detector was calibrated in accordance with manufacturer's specifications.

Signed: AH

Date: 7/7/25

Time: 10:00

WATER SAMPLING FIELD SHEET



Site Address: 93-107 Cecil Ave & 9-10 Roger Ave · Job Number: E26536

Client: Alton Property Group Date: 7/7/25

Field Staff: AH, GT Sampling Location ID: BHOIM

Well Location: BHOIM Round No: /

MEDIUM Groundwater Surface Water Stormwater Other:

SAMPLING POINT INFO

Well Installation Date: 17/06/25 Stick up / down (m): -0.1 (+ above ground - below ground)

Initial Well Depth (mBTOC): 13.20 Screen Interval (mBTOC): 19.2 - 13.2

Previous Sampling Date: / Previous SWL (mBTOC): 4.0

PID READINGS

PID Headspace (ppm): 5.2 PID Background (ppm): 0.0

PID Breathing Space (ppm): /

PRE PURGE

Total Well Depth (mBTOC): 19.42 Well Head Condition: good

SWL (mBTOC): 5.52 Water Column (m):

PHASE SEPARATED HYDROCARBONS (PSH)

Depth to PSH (mBTOC): / PSH Visually Confirmed (Bailer): /

PSH Thickness (mm): /

Field Filtered

Yes (0.45 µm) No (Request lab 0.45 µm filter the sample)

PURGE AND SAMPLE

Sampling Method Bladder Peristaltic Submersible Other: bailer

Depth of Pump Inlet (mBTOC): / Fill Timer: /

Pump Pressure Regulator (psi): / Discharge Timer: /

Weather Conditions: cloudy Cycle: /

Pump on time: / Pump off time: /

WATER QUALITY PARAMETERS

Probe Make and Model: Bump Test Date and Time:

Time	Volume (L)	SWL (mbtoc)	Temp (°C)	EC (µS/cm)	Redox (mV)	DO (mg/L)	pH (units)	Comments (colour, turbidity, odour, sheen etc.)
/	/	5.52	15.24	1065	17.6	/	9.23	medium turbidity, no odour or sheen.
Stabilisation range: 3 consecutive readings			±0.2°C	±3%	±20mV	±10%	±0.2	

OTHER COMMENTS/OBSERVATIONS:

- GWQD01, GWQTO1 - DO probe not working
 - Bladder pump malfunctioned, bailer used for sampling

SIGNATURE: AH.

WATER SAMPLING FIELD SHEET



Site Address: 93-107 Cecil Ave s, 9-10 Roger Ave Job Number: E26536

Client: Alton Property Group Date: 7/7/25

Field Staff: AM, GT Sampling Location ID B403M

Well Location: B403M Round No: /

MEDIUM Groundwater Surface Water Stormwater Other:

SAMPLING POINT INFO

Well Installation Date: 12/06/25 Stick up / down (m): -0.1 (+ above ground - below ground)

Initial Well Depth (mBTOC): 10.9 Screen Interval (mBTOC): 7.9-10.9

Previous Sampling Date: / Previous SWL (mBTOC):

PID READINGS

PID Headspace (ppm): 0.1 PID Background (ppm): 0.0

PID Breathing Space (ppm):

PRE PURGE

Total Well Depth (mBTOC): 10.07 Well Head Condition: water inside, removed prior to sampling.

SWL (mBTOC): 2.26 Water Column (m):

PHASE SEPARATED HYDROCARBONS (PSH)

Depth to PSH (mBTOC): / PSH Visually Confirmed (Bailer): /

PSH Thickness (mm): /

Field Filtered

Yes (0.45 μm) No (Request lab 0.45 μm filter the sample)

PURGE AND SAMPLE

Sampling Method Bladder Peristaltic Submersible Other:

Depth of Pump Inlet (mBTOC): Fill Timer:

Pump Pressure Regulator (psi): Discharge Timer:

Weather Conditions: Cloudy Cycle:

Pump on time: Pump off time:

WATER QUALITY PARAMETERS

Probe Make and Model: Bump Test Date and Time:

Time	Volume (L)	SWL (mbtoc)	Temp (°C)	EC (μS/cm)	Redox (mV)	DO (mg/L)	pH (units)	Comments (colour, turbidity, odour, sheen etc.)
1245	0.0	3.72	15.97	1303	19.4	/	6.51	Clear, low turbidity,
1249	0.5	3.80	17.10	1353	14.5	/	6.38	no odour / sheen.
1252	1.0	4.01	17.29	1359	17.5	/	6.36	
1255	1.5	4.85	17.34	1352	20.7	-	6.39	

Stabilisation range:
3 consecutive readings ±0.2°C ±3% ±20mV ±10% ±0.2

OTHER COMMENTS/OBSERVATIONS:
Do probe not working.

SIGNATURE:

WATER SAMPLING FIELD SHEET



Site Address: 93-107 Cecil Ave & 9-10 Roger Ave. Job Number: E26536

Client: Alton Property Group Date: 7/7/25

Field Staff: AM, GT Sampling Location ID: BH08M

Well Location: BH08M Round No: /

MEDIUM Groundwater Surface Water Stormwater Other:

SAMPLING POINT INFO

Well Installation Date: 16/06/25 Stick up / down (m): -0.1 (+ above ground - below ground)

Initial Well Depth (mBTOC): 5.5 Screen Interval (mBTOC): 2.5-5.5

Previous Sampling Date: / Previous SWL (mBTOC): 4.5

PID READINGS

PID Headspace (ppm): 15.7 PID Background (ppm): 0.0

PID Breathing Space (ppm): 0.0

PRE PURGE

Total Well Depth (mBTOC): 5.7 Well Head Condition: Water inside gaugic

SWL (mBTOC): 1.43 Water Column (m): removed prior of sample

PHASE SEPARATED HYDROCARBONS (PSH)

Depth to PSH (mBTOC): / PSH Visually Confirmed (Bailer): /

PSH Thickness (mm): /

Field Filtered

Yes (0.45 µm) No (Request lab 0.45 µm filter the sample)

PURGE AND SAMPLE

Sampling Method Bladder Peristaltic Submersible Other: Bailer

Depth of Pump Inlet (mBTOC): / Fill Timer: /

Pump Pressure Regulator (psi): / Discharge Timer: /

Weather Conditions: / Cycle: /

Pump on time: / Pump off time: /

WATER QUALITY PARAMETERS

Probe Make and Model: / Bump Test Date and Time: /

Time	Volume (L)	SWL (mbtoc)	Temp (°C)	EC (µS/cm)	Redox (mV)	DO (mg/L)	pH (units)	Comments (colour, turbidity, odour, sheen etc.)
/	/	1.43	13.06	1511	199	/	7.56	Clear, no odour/sheen

Stabilisation range: 3 consecutive readings	±0.2°C	±3%	±20mV	±10%	±0.2
---	--------	-----	-------	------	------

OTHER COMMENTS/OBSERVATIONS:

- DO probe not working.
- Bladder pump malfunctioned, bailer used for sampling.

SIGNATURE: AM

Appendix F – Chain of Custody and Sample
Receipt Documentation

CLIENT DETAILS

Contact Sharon Li
 Client EI AUSTRALIA
 Address SUITE 6.01
 55 MILLER STREET
 PYRMONT NSW 2009

Telephone 0420 225 205
 Facsimile (Not specified)
 Email sharon.li@eiaustralia.com.au

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**
 Order Number **E26536**
 Samples 32

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 Thu 12/6/2025
 Report Due Thu 19/6/2025
 SGS Reference **SE284537**

SUBMISSION DETAILS

This is to confirm that 32 samples were received on Thursday 12/6/2025. Results are expected to be ready by COB Thursday 19/6/2025. Please quote SGS reference SE284537 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	31 Soil, 1 Water	Type of documentation received	COC
Date documentation received	12/6/2025	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	3.2°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice	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

7 Soil samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed. QT1,2 and 3 Forwarded to Envirolab.

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.

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH11_0.1-0.2	27	14	26	9	7	10	81	7
002	BH11_0.6-0.7	-	-	26	-	7	10	81	7
003	BH12_0.1-0.2	27	14	26	9	7	10	81	7
004	BH23_0.1-0.2	27	14	26	9	7	10	81	7
005	BH23_0.5-0.6	-	-	26	-	7	10	81	7
006	BH24_0.1-0.2	27	14	26	9	7	10	81	7
007	BH19_0.2-0.3	27	14	26	9	7	10	81	7
008	BH19_0.6-0.7	-	-	26	-	7	10	81	7
009	BH13_0.2-0.3	27	14	26	9	7	10	81	7
010	BH27_0.0-0.1	27	14	26	9	7	10	81	7
011	BH27_0.4-0.5	-	-	26	-	7	10	81	7
012	BH25_0.1-0.2	27	14	26	9	7	10	81	7
013	BH26_0.0-0.1	27	14	26	9	7	10	81	7
014	BH02_0.1-0.2	27	14	26	9	7	10	81	7
015	BH02_0.4-0.5	-	-	26	-	7	10	81	7
016	BH18_0.1-0.2	27	14	26	9	7	10	81	7
017	BH10_0.1-0.2	27	14	26	9	7	10	81	7
018	BH10_0.7-0.8	-	-	26	-	7	10	81	7
019	BH16_0.2-0.3	27	14	26	9	7	10	81	7
020	BH17_0.1-0.2	27	14	26	9	7	10	81	7
021	BH17_0.6-0.7	-	-	26	-	7	10	81	7
022	BH20_0.1-0.2	27	14	26	9	7	10	81	7
023	BH22_0.1-0.2	27	14	26	9	7	10	81	7
024	BH21_0.1-0.2	27	14	26	9	7	10	81	7

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.

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
025	BH15_0.1-0.2	27	14	26	9	7	10	81	7
026	BH15_0.5-0.6	-	-	26	-	7	10	81	7
027	QD01	-	-	-	-	7	10	11	7
028	QD02	-	-	-	-	7	10	11	7
029	QD03	-	-	-	-	7	10	11	7
031	TRIP BLANK	-	-	-	-	-	-	11	-
032	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.

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content
001	BH11_0.1-0.2	3	1	1
002	BH11_0.6-0.7	-	1	1
003	BH12_0.1-0.2	3	1	1
004	BH23_0.1-0.2	3	1	1
005	BH23_0.5-0.6	-	1	1
006	BH24_0.1-0.2	3	1	1
007	BH19_0.2-0.3	3	1	1
008	BH19_0.6-0.7	-	1	1
009	BH13_0.2-0.3	3	1	1
010	BH27_0.0-0.1	3	1	1
011	BH27_0.4-0.5	-	1	1
012	BH25_0.1-0.2	3	1	1
013	BH26_0.0-0.1	3	1	1
014	BH02_0.1-0.2	3	1	1
015	BH02_0.4-0.5	-	1	1
016	BH18_0.1-0.2	3	1	1
017	BH10_0.1-0.2	3	1	1
018	BH10_0.7-0.8	-	1	1
019	BH16_0.2-0.3	3	1	1
020	BH17_0.1-0.2	3	1	1
021	BH17_0.6-0.7	-	1	1
022	BH20_0.1-0.2	3	1	1
023	BH22_0.1-0.2	3	1	1
024	BH21_0.1-0.2	3	1	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. 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.

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content
025	BH15_0.1-0.2	3	1	1
026	BH15_0.5-0.6	-	1	1
027	QD01	-	1	1
028	QD02	-	1	1
029	QD03	-	1	1
031	TRIP BLANK	-	-	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. 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 .

CLIENT DETAILS


Client **EI AUSTRALIA**

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Trace Metals (Dissolved) in Water by ICPMS	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
030	R01	1	7	9	11	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.

Sheet <u>1</u> of <u>1</u>					Sample Matrix		Analysis																Comments							
Site:		Project No:																				HM ^a								
93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW		E26536																				Arsenic								
Laboratory:		SGS Australia Unit 16, 33 Maddox Street, ALEXANDRIA NSW 2015 P: 02 8594 0400 F: 02 8594 0499																				Cadmium								
Sample ID	Laboratory ID	Container Type	Sampling		SOIL	WATER	0.45 µm field filtered	OTHER	HM ^a /TRH (including F1, F2, F3, F4)/ BTEX/PAHs OC/POP/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	HM ^b
			Date	Time																										Arsenic
QT01	1	J	10/06/2025		X					X																				Nickel
QT02	2	J	10/06/2025		X					X																				Dewatering Suite
QT03	3	J	11/06/2025		X					X																				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
																														<input checked="" type="checkbox"/> Standard
																														<input type="checkbox"/> 24 Hours
																														<input type="checkbox"/> 48 Hours
																														<input type="checkbox"/> 72 Hours
																														<input type="checkbox"/> 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				Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.													Report with EI Waste Classification Table <input type="checkbox"/>													
 <p>Suite 6.01, 55 Miller Street, PYRMONT NSW 2009 Ph: 9516 0722 lab@eiaustralia.com.au</p> <p>COC June 2021 FORM v.5 - SGS</p>				Sampler's Name (EI):					Received by (SGS):					Sampler's Comments: Please forward to Envirolab CC: Sharon L.																
				Print Amber Huang					Print Dani SUD																					
				Signature <i>Amber Huang</i>					Signature <i>Dani SUD</i>																					
IMPORTANT: Please e-mail laboratory results to: lab@eiaustralia.com.au				Date 12/06/2025					Date 13/06/2025 1610																					

Envirolab Services
 12 Ashley St
 Chatswood NSW 2067
 Ph: (02) 9940 6200
 Job No: 383274
 Date Received: 13/06/2025
 Time Received: 1610
 Received By: Dani SUD
 Temp: Cool/Ambient
 Cooling: Ice/Icepack 10°C
 (Broken/None)

SAMPLE RECEIPT ADVICE

Client Details

Client	EI Australia
Attention	Amber Huang

Sample Login Details

Your reference	E26536, 93-107 Cecil Ave&9-10 Roger Ave, Castle Hill
Envirolab Reference	383274
Date Sample Received	13/06/2025
Date Instructions Received	13/06/2025
Date Results Expected to be Reported	20/06/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	3 Soil
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

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:



Sample ID	VTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	Acid Extractable metals in soil
QT01	✓	✓	✓
QT02	✓	✓	✓
QT03	✓	✓	✓

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.

E-MAILED
16/603.491

Sheet 1 of 1					Sample Matrix				Analysis														Comments																	
Site:		Project No:			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)	HOLD																				
Laboratory:		Laboratory ID	Container Type	Sampling																																				
Sample ID	SGS Australia Unit 16, 33 Maddox Street, ALEXANDRIA NSW 2015 P: 02 8594 0400 F: 02 8594 0499				Date	Time																																		
BH09_0.3-0.5	1	J, ZLB	11/06/2025		X			X				X																												HM ^A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM ^B Arsenic Cadmium Chromium Lead Mercury Nickel
BH09_1.0-1.2	2	J, ZLB	11/06/2025		X				X			X																										Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr,		
BH06_0.4-0.5	3	J, ZLB	13/06/2025		X			X				X																										SGS EHS Sydney COC SE284685		
BH06-1.0-1.1	4	J, ZLB	13/06/2025		X				X			X																										LABORATORY TURNAROUND		
BH03_0.3-0.5	5	J, ZLB	12/06/2025		X			X				X																									<input checked="" type="checkbox"/> Standard			
BH03_0.9-1.1		J, ZLB	12/06/2025		X																				X											<input type="checkbox"/> 24 Hours				
BH14_0.4-0.5	6	J, ZLB	13/06/2025		X			X				X																								<input type="checkbox"/> 48 Hours				
BH14_0.9-1.0	7	J, ZLB	13/06/2025		X				X			X																								<input type="checkbox"/> 72 Hours				
																																				<input type="checkbox"/> 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					Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.											Report with EI Waste Classification Table <input checked="" type="checkbox"/>																								
 Suite 6.01, 55 Miller Street, PYRMONT NSW 2009 Ph: 9516 0722 lab@eiaustralia.com.au COC June 2021 FORM v.5 - SGS					Sampler's Name (EI): <i>Print</i> Amber Huang					Received by (SGS): <i>Print</i>					Sampler's Comments: 1x esky submitted on 13/06/2025																									
					Signature: <i>[Signature]</i>					Signature: <i>[Signature]</i>					cc: Sharon L																									
					Date: 16/06/2025					Date: 13/06/25 @ 12:35																														
IMPORTANT: Please e-mail laboratory results to: lab@eiaustralia.com.au																																								



SAMPLE RECEIPT ADVICE

SE284685

CLIENT DETAILS

Contact Sharon Li
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 0420 225 205
Facsimile (Not specified)
Email sharon.li@eiaustralia.com.au

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**
Order Number **E26536**
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 13/6/2025
Report Due Mon 23/6/2025
SGS Reference **SE284685**

SUBMISSION DETAILS

This is to confirm that 7 samples were received on Friday 13/6/2025. Results are expected to be ready by COB Monday 23/6/2025. Please quote SGS reference SE284685 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	7 Soil	Type of documentation received	COC
Date documentation received	16/6/2025@3:49pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	19.2°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 soil sample has been placed on hold as no tests have been assigned for it. This sample will not be processed.

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CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH09_0.3-0.5	27	14	26	9	7	10	81	7
002	BH09_1.0-1.2	-	-	26	-	7	10	81	7
003	BH06_0.4-0.5	27	14	26	9	7	10	81	7
004	BH06_1.0-1.1	-	-	26	-	7	10	81	7
005	BH03_0.3-.5	27	14	26	9	7	10	81	7
006	BH14_0.4-.0.5	27	14	26	9	7	10	81	7
007	BH14_0.9-1.0	-	-	26	-	7	10	81	7

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

SE284685

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content
001	BH09_0.3-0.5	3	1	1
002	BH09_1.0-1.2	-	1	1
003	BH06_0.4-0.5	3	1	1
004	BH06_1.0-1.1	-	1	1
005	BH03_0.3-.5	3	1	1
006	BH14_0.4-.0.5	3	1	1
007	BH14_0.9-1.0	-	1	1

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.

CLIENT DETAILS

Contact Sharon Li
 Client EI AUSTRALIA
 Address SUITE 6.01
 55 MILLER STREET
 PYRMONT NSW 2009

Telephone 0420 225 205
 Facsimile (Not specified)
 Email sharon.li@eiaustralia.com.au

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**
 Order Number **E26536**
 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 20/6/2025
 Report Due Mon 30/6/2025
 SGS Reference **SE285047**

SUBMISSION DETAILS

This is to confirm that 7 samples were received on Friday 20/6/2025. Results are expected to be ready by COB Monday 30/6/2025. Please quote SGS reference SE285047 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	7 Soil	Type of documentation received	COC
Date documentation received	23/6/2025 @09:32am	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	4.2°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice	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

3 Soil samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.
 Extra sample BH08M_0.5-0.95 1 bag received.

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CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH04_0.3-0.5	27	14	26	9	7	10	81	7
002	BH05_0.1-0.4	27	14	26	9	7	10	81	7
003	BH08M_0.3-0.5	27	14	26	9	7	10	81	7
004	BH08M_0.8-1.0	-	-	26	-	7	10	81	7
005	BH07_0.3-0.5	27	14	26	9	7	10	81	7
006	BH07_0.6-0.8	-	-	26	-	7	10	81	7
007	BH01M_0.3-0.5	27	14	26	9	7	10	81	7

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.

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content
001	BH04_0.3-0.5	3	1	1
002	BH05_0.1-0.4	3	1	1
003	BH08M_0.3-0.5	3	1	1
004	BH08M_0.8-1.0	-	1	1
005	BH07_0.3-0.5	3	1	1
006	BH07_0.6-0.8	-	1	1
007	BH01M_0.3-0.5	3	1	1

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

SE285800

CLIENT DETAILS

Contact Sharon Li
Client EI AUSTRALIA
Address SUITE 6.01
55 MILLER STREET
PYRMONT NSW 2009

Telephone 0420 225 205
Facsimile (Not specified)
Email sharon.li@eiaustralia.com.au

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**
Order Number **E26536**
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 Mon 7/7/2025
Report Due Fri 11/7/2025
SGS Reference **SE285800**

SUBMISSION DETAILS

This is to confirm that 7 samples were received on Monday 7/7/2025. Results are expected to be ready by COB Friday 11/7/2025. Please quote SGS reference SE285800 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	07/07/2025@05:53PM	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	9.8°C
Sample container provider	SGS	Turnaround time requested	Three Days
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

QT1 forwarded to Envirolab.

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.

CLIENT DETAILS

Client **EI AUSTRALIA**

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	Total Cyanide in water by Discrete Analyser	Total Phenolics in Water	Trace Metals (Dissolved) in Water by ICPMS	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	BH01M	1	22	1	1	7	9	78	7
002	BH03M	1	22	1	1	7	9	78	7
003	BH08M	1	22	1	1	7	9	78	7
004	GWQD01	1	-	-	-	7	9	11	7
005	R01	1	-	-	-	7	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

SE285800

CLIENT DETAILS





Client **EI AUSTRALIA**

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**

SUMMARY OF ANALYSIS

No.	Sample ID	Per- and Polyfluoroalkyl Substances (PFAS) in
001	BH01M	60
002	BH03M	60
003	BH08M	60

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.

Sheet <u>1</u> of <u>1</u>					Sample Matrix				Analysis														Comments							
Site: 93-107 Cecil Avenue & 9-10 Roger Avenue, Castle Hill, NSW			Project No: E26536		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 / OEC (cation exchange)	pH / EC (electrical conductivity)	Sulphate / Chloride	Lead	TCLP HM ^B / PAH	HM ^A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc
Laboratory: SGS Australia Unit 16, 33 Maddox Street, ALEXANDRIA NSW 2015 P: 02 8594 0400 F: 02 8594 0499			Sampling																											
Sample ID	Laboratory ID	Container Type	Date	Time																										
GWQT1		S, P, VC	7/07/2025			X				X																				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
					 12 Ashby St Chatswood NSW 2067 Ph: (02) 9910 5200 Job No: 385353																									
					Date Received: 8/7/25 Time Received: 16:00 Received By: ST Temp: 20/Ambient Cooling: Ice/Repack Security: Intact/Broken/None																									
																			LABORATORY TURNAROUND <input type="checkbox"/> Standard <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 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					Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.														Report with EI Waste Classification Table <input type="checkbox"/>											
 Suite 6.01, 55 Miller Street, PYRMONT NSW 2009 Ph: 9516 0722 lab@eiaustralia.com.au COC June 2021 FORM v.5 - SGS					Sampler's Name (EI): Print Amber Huang					Received by: SGS ECS ST Print Shann Tok					Sampler's Comments: Please forward to Envirolab CC: Sharon L.															
					Signature 					Signature 																				
					Date 7/07/2025					Date 8/7/25																				
					IMPORTANT: Please e-mail laboratory results to: lab@eiaustralia.com.au																									

SAMPLE RECEIPT ADVICE

Client Details

Client	EI Australia
Attention	Amber Huang

Sample Login Details

Your reference	E26536, 93-107 Cecil Avenue & 9-10 Roger Avenue
Envirolab Reference	385353
Date Sample Received	08/07/2025
Date Instructions Received	08/07/2025
Date Results Expected to be Reported	11/07/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 Water
Turnaround Time Requested	3 days
Temperature on Receipt (°C)	10
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:



Sample ID	VTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	HM in water - dissolved
GWQT1	✓	✓	✓

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

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Appendix G – Laboratory Analytical Reports

CLIENT DETAILS

Contact Sharon Li
 Client EI AUSTRALIA
 Address SUITE 6.01
 55 MILLER STREET
 PYRMONT NSW 2009

Telephone 0420 225 205
 Facsimile (Not specified)
 Email sharon.li@eiaustralia.com.au

Project **E26536 93-107 Cecil Avenue & 9-10 Roger**
 Order Number **E26536**
 Samples 32

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 **SE284537 R0**
 Date Received 12/6/2025
 Date Reported 19/6/2025

COMMENTS


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

No respirable fibres detected in all soil samples using trace analysis technique.
 Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES



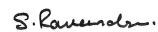
Bennet LO
Senior Chemist



Dong LIANG
Metals/Inorganics Team Leader



Nathan CAMILLERI
Organics Manager



Ravee SIVASUBRAMANIAM
Hygiene Team Leader



Teresa NGUYEN
Organic Chemist

VOC's in Soil [AN433] Tested: 16/6/2025

PARAMETER	UOM	LOR	BH11_0.1-0.2	BH11_0.6-0.7	BH12_0.1-0.2	BH23_0.1-0.2	BH23_0.5-0.6
			SOIL - 10/6/2025 SE284537.001	SOIL - 10/6/2025 SE284537.002	SOIL - 10/6/2025 SE284537.003	SOIL - 10/6/2025 SE284537.004	SOIL - 10/6/2025 SE284537.005
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	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate*	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH11_0.1-0.2	BH11_0.6-0.7	BH12_0.1-0.2	BH23_0.1-0.2	BH23_0.5-0.6
			SOIL - 10/6/2025 SE284537.001	SOIL - 10/6/2025 SE284537.002	SOIL - 10/6/2025 SE284537.003	SOIL - 10/6/2025 SE284537.004	SOIL - 10/6/2025 SE284537.005
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	<24	<24	<24	<24	<24
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10

VOC's in Soil [AN433] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH24_0.1-0.2	BH19_0.2-0.3	BH19_0.6-0.7	BH13_0.2-0.3	BH27_0.0-0.1
			SOIL 10/6/2025 SE284537.006	SOIL 10/6/2025 SE284537.007	SOIL 10/6/2025 SE284537.008	SOIL 10/6/2025 SE284537.009	SOIL 10/6/2025 SE284537.010
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	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate*	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH24_0.1-0.2	BH19_0.2-0.3	BH19_0.6-0.7	BH13_0.2-0.3	BH27_0.0-0.1
			SOIL - 10/6/2025 SE284537.006	SOIL - 10/6/2025 SE284537.007	SOIL - 10/6/2025 SE284537.008	SOIL - 10/6/2025 SE284537.009	SOIL - 10/6/2025 SE284537.010
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	<24	<24	<24	<24	<24
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10

VOC's in Soil [AN433] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH27_0.4-0.5	BH25_0.1-0.2	BH26_0.0-0.1	BH02_0.1-0.2	BH02_0.4-0.5
			SOIL - 10/6/2025 SE284537.011	SOIL - 10/6/2025 SE284537.012	SOIL - 10/6/2025 SE284537.013	SOIL - 10/6/2025 SE284537.014	SOIL - 10/6/2025 SE284537.015
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	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate*	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH27_0.4-0.5	BH25_0.1-0.2	BH26_0.0-0.1	BH02_0.1-0.2	BH02_0.4-0.5
			SOIL - 10/6/2025 SE284537.011	SOIL - 10/6/2025 SE284537.012	SOIL - 10/6/2025 SE284537.013	SOIL - 10/6/2025 SE284537.014	SOIL - 10/6/2025 SE284537.015
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	<24	<24	<24	<24	<24
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10

VOC's in Soil [AN433] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH18_0.1-0.2	BH10_0.1-0.2	BH10_0.7-0.8	BH16_0.2-0.3	BH17_0.1-0.2
			SOIL 10/6/2025 SE284537.016	SOIL 10/6/2025 SE284537.017	SOIL 10/6/2025 SE284537.018	SOIL 10/6/2025 SE284537.019	SOIL 10/6/2025 SE284537.020
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	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate*	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH18_0.1-0.2	BH10_0.1-0.2	BH10_0.7-0.8	BH16_0.2-0.3	BH17_0.1-0.2
			SOIL - 10/6/2025 SE284537.016	SOIL - 10/6/2025 SE284537.017	SOIL - 10/6/2025 SE284537.018	SOIL - 10/6/2025 SE284537.019	SOIL - 10/6/2025 SE284537.020
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	<24	<24	<24	<24	<24
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10

VOC's in Soil [AN433] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH17_0.6-0.7	BH20_0.1-0.2	BH22_0.1-0.2	BH21_0.1-0.2	BH15_0.1-0.2
			SOIL 10/6/2025 SE284537.021	SOIL 10/6/2025 SE284537.022	SOIL 11/6/2025 SE284537.023	SOIL 11/6/2025 SE284537.024	SOIL 11/6/2025 SE284537.025
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	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate*	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH17_0.6-0.7	BH20_0.1-0.2	BH22_0.1-0.2	BH21_0.1-0.2	BH15_0.1-0.2
			SOIL - 10/6/2025 SE284537.021	SOIL - 10/6/2025 SE284537.022	SOIL - 11/6/2025 SE284537.023	SOIL - 11/6/2025 SE284537.024	SOIL - 11/6/2025 SE284537.025
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	<24	<24	<24	<24	<24
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10

VOC's in Soil [AN433] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH15_0.5-0.6	QD01	QD02	QD03	TRIP BLANK
			SOIL	SOIL	SOIL	SOIL	SOIL
			11/6/2025 SE284537.026	11/6/2025 SE284537.027	11/6/2025 SE284537.028	11/6/2025 SE284537.029	11/6/2025 SE284537.031
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	-	-	-	-
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: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH15_0.5-0.6	QD01	QD02	QD03	TRIP BLANK
			SOIL	SOIL	SOIL	SOIL	SOIL
			11/6/2025 SE284537.026	11/6/2025 SE284537.027	11/6/2025 SE284537.028	11/6/2025 SE284537.029	11/6/2025 SE284537.031
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	-	-	-	-

VOC's in Soil [AN433] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	TRIP SPIKE
			SOIL - 11/6/2025 SE284537.032
Benzene	mg/kg	0.1	[97%]
Toluene	mg/kg	0.1	[99%]
Ethylbenzene	mg/kg	0.1	[97%]
m/p-xylene	mg/kg	0.2	[97%]
o-xylene	mg/kg	0.1	[98%]
Total Xylenes*	mg/kg	0.3	-
Total BTEX*	mg/kg	0.6	-
Naphthalene (VOC)*	mg/kg	0.1	-
Dichlorodifluoromethane (CFC-12)	mg/kg	1	-
Chloromethane	mg/kg	1	-
Vinyl chloride (Chloroethene)	mg/kg	0.1	-
Bromomethane	mg/kg	1	-
Chloroethane	mg/kg	1	-
Trichlorofluoromethane	mg/kg	1	-
Acetone (2-propanone)	mg/kg	10	-
Iodomethane	mg/kg	5	-
1,1-dichloroethene	mg/kg	0.1	-
Acrylonitrile	mg/kg	0.1	-
Dichloromethane (Methylene chloride)	mg/kg	0.5	-
Allyl chloride	mg/kg	0.1	-
Carbon disulfide	mg/kg	0.5	-
trans-1,2-dichloroethene	mg/kg	0.1	-
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	-
1,1-dichloroethane	mg/kg	0.1	-
Vinyl acetate*	mg/kg	10	-
cis-1,2-dichloroethene	mg/kg	0.1	-
Bromochloromethane	mg/kg	0.1	-
Chloroform (THM)	mg/kg	0.1	-
2,2-dichloropropane	mg/kg	0.1	-
1,2-dichloroethane	mg/kg	0.1	-
1,1,1-trichloroethane	mg/kg	0.1	-
1,1-dichloropropene	mg/kg	0.1	-
Carbon tetrachloride	mg/kg	0.1	-
Dibromomethane	mg/kg	0.1	-
1,2-dichloropropane	mg/kg	0.1	-
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	-
2-nitropropane	mg/kg	10	-
Bromodichloromethane (THM)	mg/kg	0.1	-
MIBK (4-methyl-2-pentanone)	mg/kg	1	-
cis-1,3-dichloropropene	mg/kg	0.1	-
trans-1,3-dichloropropene	mg/kg	0.1	-
1,1,2-trichloroethane	mg/kg	0.1	-
1,3-dichloropropane	mg/kg	0.1	-
Dibromochloromethane (THM)	mg/kg	0.1	-
2-hexanone (MBK)	mg/kg	5	-
1,2-dibromoethane (EDB)	mg/kg	0.1	-
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	-
1,1,1,2-tetrachloroethane	mg/kg	0.1	-
Chlorobenzene	mg/kg	0.1	-
Bromoform (THM)	mg/kg	0.1	-
Styrene (Vinyl benzene)	mg/kg	0.1	-
1,1,2,2-tetrachloroethane	mg/kg	0.1	-
1,2,3-trichloropropane	mg/kg	0.1	-
trans-1,4-dichloro-2-butene	mg/kg	1	-
Isopropylbenzene (Cumene)	mg/kg	0.1	-
Bromobenzene	mg/kg	0.1	-

VOC's in Soil [AN433] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	TRIP SPIKE
			SOIL - 11/6/2025 SE284537.032
n-propylbenzene	mg/kg	0.1	-
2-chlorotoluene	mg/kg	0.1	-
4-chlorotoluene	mg/kg	0.1	-
1,3,5-trimethylbenzene	mg/kg	0.1	-
tert-butylbenzene	mg/kg	0.1	-
1,2,4-trimethylbenzene	mg/kg	0.1	-
sec-butylbenzene	mg/kg	0.1	-
1,3-dichlorobenzene	mg/kg	0.1	-
1,4-dichlorobenzene	mg/kg	0.1	-
p-isopropyltoluene	mg/kg	0.1	-
1,2-dichlorobenzene	mg/kg	0.1	-
n-butylbenzene	mg/kg	0.1	-
1,2-dibromo-3-chloropropane	mg/kg	0.1	-
1,2,4-trichlorobenzene	mg/kg	0.1	-
Hexachlorobutadiene	mg/kg	0.1	-
1,2,3-trichlorobenzene	mg/kg	0.1	-
Total VOC*	mg/kg	24	-
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	-
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	-
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	-
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	-
MEK (2-butanone)	mg/kg	10	-

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 16/6/2025

PARAMETER	UOM	LOR	BH11_0.1-0.2	BH11_0.6-0.7	BH12_0.1-0.2	BH23_0.1-0.2	BH23_0.5-0.6
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
			SE284537.001	SE284537.002	SE284537.003	SE284537.004	SE284537.005
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	BH24_0.1-0.2	BH19_0.2-0.3	BH19_0.6-0.7	BH13_0.2-0.3	BH27_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
			SE284537.006	SE284537.007	SE284537.008	SE284537.009	SE284537.010
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	BH27_0.4-0.5	BH25_0.1-0.2	BH26_0.0-0.1	BH02_0.1-0.2	BH02_0.4-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
			SE284537.011	SE284537.012	SE284537.013	SE284537.014	SE284537.015
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	BH18_0.1-0.2	BH10_0.1-0.2	BH10_0.7-0.8	BH16_0.2-0.3	BH17_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
			SE284537.016	SE284537.017	SE284537.018	SE284537.019	SE284537.020
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	BH17_0.6-0.7	BH20_0.1-0.2	BH22_0.1-0.2	BH21_0.1-0.2	BH15_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025	10/6/2025	11/6/2025	11/6/2025	11/6/2025
			SE284537.021	SE284537.022	SE284537.023	SE284537.024	SE284537.025
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	BH15_0.5-0.6	QD01	QD02	QD03
			SOIL	SOIL	SOIL	SOIL
			11/6/2025	11/6/2025	11/6/2025	11/6/2025
			SE284537.026	SE284537.027	SE284537.028	SE284537.029
TRH C6-C9	mg/kg	20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 16/6/2025

PARAMETER	UOM	LOR	BH11_0.1-0.2	BH11_0.6-0.7	BH12_0.1-0.2	BH23_0.1-0.2	BH23_0.5-0.6
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.001	10/6/2025 SE284537.002	10/6/2025 SE284537.003	10/6/2025 SE284537.004	10/6/2025 SE284537.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<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	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH24_0.1-0.2	BH19_0.2-0.3	BH19_0.6-0.7	BH13_0.2-0.3	BH27_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.006	10/6/2025 SE284537.007	10/6/2025 SE284537.008	10/6/2025 SE284537.009	10/6/2025 SE284537.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	60
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	100
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	<90	<90	140
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	160
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH27_0.4-0.5	BH25_0.1-0.2	BH26_0.0-0.1	BH02_0.1-0.2	BH02_0.4-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.011	10/6/2025 SE284537.012	10/6/2025 SE284537.013	10/6/2025 SE284537.014	10/6/2025 SE284537.015
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	120	<45	52
TRH C29-C36	mg/kg	45	<45	<45	68	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	29	<25	28
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	29	<25	28
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	170	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	180	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH18_0.1-0.2	BH10_0.1-0.2	BH10_0.7-0.8	BH16_0.2-0.3	BH17_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.016	10/6/2025 SE284537.017	10/6/2025 SE284537.018	10/6/2025 SE284537.019	10/6/2025 SE284537.020
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<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	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH17_0.6-0.7	BH20_0.1-0.2	BH22_0.1-0.2	BH21_0.1-0.2	BH15_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.021	10/6/2025 SE284537.022	11/6/2025 SE284537.023	11/6/2025 SE284537.024	11/6/2025 SE284537.025
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<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	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH15_0.5-0.6	QD01	QD02	QD03
			SOIL	SOIL	SOIL	SOIL
			11/6/2025 SE284537.026	11/6/2025 SE284537.027	11/6/2025 SE284537.028	11/6/2025 SE284537.029
TRH C10-C14	mg/kg	20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/6/2025

PARAMETER	UOM	LOR	BH11_0.1-0.2	BH11_0.6-0.7	BH12_0.1-0.2	BH23_0.1-0.2	BH23_0.5-0.6
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.001	10/6/2025 SE284537.002	10/6/2025 SE284537.003	10/6/2025 SE284537.004	10/6/2025 SE284537.005
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	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	0.4	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	0.3	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	0.2	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	0.2	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.2	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	0.2	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	0.3	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	0.4	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	0.3	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	2.2	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	2.2	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH24_0.1-0.2	BH19_0.2-0.3	BH19_0.6-0.7	BH13_0.2-0.3	BH27_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.006	10/6/2025 SE284537.007	10/6/2025 SE284537.008	10/6/2025 SE284537.009	10/6/2025 SE284537.010
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	<0.1
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	<0.1
Pyrene	mg/kg	0.1	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH27_0.4-0.5	BH25_0.1-0.2	BH26_0.0-0.1	BH02_0.1-0.2	BH02_0.4-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.011	10/6/2025 SE284537.012	10/6/2025 SE284537.013	10/6/2025 SE284537.014	10/6/2025 SE284537.015
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	<0.1
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	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH18_0.1-0.2	BH10_0.1-0.2	BH10_0.7-0.8	BH16_0.2-0.3	BH17_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.016	10/6/2025 SE284537.017	10/6/2025 SE284537.018	10/6/2025 SE284537.019	10/6/2025 SE284537.020
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	<0.1
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	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH17_0.6-0.7	BH20_0.1-0.2	BH22_0.1-0.2	BH21_0.1-0.2	BH15_0.1-0.2
			SOIL 10/6/2025 SE284537.021	SOIL 10/6/2025 SE284537.022	SOIL 11/6/2025 SE284537.023	SOIL 11/6/2025 SE284537.024	SOIL 11/6/2025 SE284537.025
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	<0.1
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	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH15_0.5-0.6
			SOIL 11/6/2025 SE284537.026
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

OP Pesticides in Soil [AN420] Tested: 16/6/2025

PARAMETER	UOM	LOR	BH11_0.1-0.2	BH12_0.1-0.2	BH23_0.1-0.2	BH24_0.1-0.2	BH19_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.001	10/6/2025 SE284537.003	10/6/2025 SE284537.004	10/6/2025 SE284537.006	10/6/2025 SE284537.007
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	BH13_0.2-0.3	BH27_0.0-0.1	BH25_0.1-0.2	BH26_0.0-0.1	BH02_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.009	10/6/2025 SE284537.010	10/6/2025 SE284537.012	10/6/2025 SE284537.013	10/6/2025 SE284537.014
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	BH18_0.1-0.2	BH10_0.1-0.2	BH16_0.2-0.3	BH17_0.1-0.2	BH20_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.016	10/6/2025 SE284537.017	10/6/2025 SE284537.019	10/6/2025 SE284537.020	10/6/2025 SE284537.022
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

OP Pesticides in Soil [AN420] Tested: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH22_0.1-0.2	BH21_0.1-0.2	BH15_0.1-0.2
			SOIL - 11/6/2025 SE284537.023	SOIL - 11/6/2025 SE284537.024	SOIL - 11/6/2025 SE284537.025
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7

OC Pesticides in Soil [AN420] Tested: 16/6/2025

PARAMETER	UOM	LOR	BH11_0.1-0.2	BH12_0.1-0.2	BH23_0.1-0.2	BH24_0.1-0.2	BH19_0.2-0.3
			SOIL - 10/6/2025 SE284537.001	SOIL - 10/6/2025 SE284537.003	SOIL - 10/6/2025 SE284537.004	SOIL - 10/6/2025 SE284537.006	SOIL - 10/6/2025 SE284537.007
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: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH13_0.2-0.3	BH27_0.0-0.1	BH25_0.1-0.2	BH26_0.0-0.1	BH02_0.1-0.2
			SOIL - 10/6/2025 SE284537.009	SOIL - 10/6/2025 SE284537.010	SOIL - 10/6/2025 SE284537.012	SOIL - 10/6/2025 SE284537.013	SOIL - 10/6/2025 SE284537.014
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: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH18_0.1-0.2	BH10_0.1-0.2	BH16_0.2-0.3	BH17_0.1-0.2	BH20_0.1-0.2
			SOIL - 10/6/2025 SE284537.016	SOIL - 10/6/2025 SE284537.017	SOIL - 10/6/2025 SE284537.019	SOIL - 10/6/2025 SE284537.020	SOIL - 10/6/2025 SE284537.022
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: 16/6/2025 (continued)

PARAMETER	UOM	LOR	BH22_0.1-0.2	BH21_0.1-0.2	BH15_0.1-0.2
			SOIL - 11/6/2025 SE284537.023	SOIL - 11/6/2025 SE284537.024	SOIL - 11/6/2025 SE284537.025
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1

PCBs in Soil [AN420] Tested: 16/6/2025

PARAMETER	UOM	LOR	BH11_0.1-0.2	BH12_0.1-0.2	BH23_0.1-0.2	BH24_0.1-0.2	BH19_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.001	10/6/2025 SE284537.003	10/6/2025 SE284537.004	10/6/2025 SE284537.006	10/6/2025 SE284537.007
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	BH13_0.2-0.3	BH27_0.0-0.1	BH25_0.1-0.2	BH26_0.0-0.1	BH02_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.009	10/6/2025 SE284537.010	10/6/2025 SE284537.012	10/6/2025 SE284537.013	10/6/2025 SE284537.014
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	BH18_0.1-0.2	BH10_0.1-0.2	BH16_0.2-0.3	BH17_0.1-0.2	BH20_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.016	10/6/2025 SE284537.017	10/6/2025 SE284537.019	10/6/2025 SE284537.020	10/6/2025 SE284537.022
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	BH22_0.1-0.2	BH21_0.1-0.2	BH15_0.1-0.2
			SOIL	SOIL	SOIL
			11/6/2025 SE284537.023	11/6/2025 SE284537.024	11/6/2025 SE284537.025
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 16/6/2025

PARAMETER	UOM	LOR	BH11_0.1-0.2	BH11_0.6-0.7	BH12_0.1-0.2	BH23_0.1-0.2	BH23_0.5-0.6
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.001	10/6/2025 SE284537.002	10/6/2025 SE284537.003	10/6/2025 SE284537.004	10/6/2025 SE284537.005
Arsenic, As	mg/kg	1	7	12	7	6	9
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	9.7	6.3	11	12	15
Copper, Cu	mg/kg	0.5	17	24	15	15	20
Lead, Pb	mg/kg	1	49	18	52	24	16
Nickel, Ni	mg/kg	0.5	3.3	3.1	5.1	6.1	2.7
Zinc, Zn	mg/kg	2	37	25	47	33	25

PARAMETER	UOM	LOR	BH24_0.1-0.2	BH19_0.2-0.3	BH19_0.6-0.7	BH13_0.2-0.3	BH27_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.006	10/6/2025 SE284537.007	10/6/2025 SE284537.008	10/6/2025 SE284537.009	10/6/2025 SE284537.010
Arsenic, As	mg/kg	1	6	5	9	6	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	11	14	14	12	11
Copper, Cu	mg/kg	0.5	15	14	24	27	16
Lead, Pb	mg/kg	1	36	30	19	28	27
Nickel, Ni	mg/kg	0.5	6.2	6.4	4.3	8.7	4.1
Zinc, Zn	mg/kg	2	43	44	26	53	54

PARAMETER	UOM	LOR	BH27_0.4-0.5	BH25_0.1-0.2	BH26_0.0-0.1	BH02_0.1-0.2	BH02_0.4-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.011	10/6/2025 SE284537.012	10/6/2025 SE284537.013	10/6/2025 SE284537.014	10/6/2025 SE284537.015
Arsenic, As	mg/kg	1	5	5	5	6	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	4.1	11	9.2	12	13
Copper, Cu	mg/kg	0.5	12	14	12	15	14
Lead, Pb	mg/kg	1	15	24	18	64	15
Nickel, Ni	mg/kg	0.5	<0.5	5.2	5.4	5.1	2.5
Zinc, Zn	mg/kg	2	7.1	43	23	26	11

PARAMETER	UOM	LOR	BH18_0.1-0.2	BH10_0.1-0.2	BH10_0.7-0.8	BH16_0.2-0.3	BH17_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.016	10/6/2025 SE284537.017	10/6/2025 SE284537.018	10/6/2025 SE284537.019	10/6/2025 SE284537.020
Arsenic, As	mg/kg	1	7	4	4	6	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	0.5
Chromium, Cr	mg/kg	0.5	15	12	13	13	14
Copper, Cu	mg/kg	0.5	27	15	24	20	29
Lead, Pb	mg/kg	1	45	32	23	44	79
Nickel, Ni	mg/kg	0.5	5.4	5.1	2.3	4.8	5.1
Zinc, Zn	mg/kg	2	160	49	15	43	59

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 16/6/2025

PARAMETER	UOM	LOR	BH17_0.6-0.7	BH20_0.1-0.2	BH22_0.1-0.2	BH21_0.1-0.2	BH15_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			10/6/2025 SE284537.021	10/6/2025 SE284537.022	11/6/2025 SE284537.023	11/6/2025 SE284537.024	11/6/2025 SE284537.025
Arsenic, As	mg/kg	1	5	9	8	7	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	0.3
Chromium, Cr	mg/kg	0.5	15	17	18	11	11
Copper, Cu	mg/kg	0.5	17	26	27	12	26
Lead, Pb	mg/kg	1	22	61	80	18	120
Nickel, Ni	mg/kg	0.5	3.2	7.8	7.6	2.4	5.0
Zinc, Zn	mg/kg	2	14	93	98	27	140

PARAMETER	UOM	LOR	BH15_0.5-0.6	QD01	QD02	QD03
			SOIL	SOIL	SOIL	SOIL
			11/6/2025 SE284537.026	11/6/2025 SE284537.027	11/6/2025 SE284537.028	11/6/2025 SE284537.029
Arsenic, As	mg/kg	1	6	3	4	8
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	16	9.0	11	16
Copper, Cu	mg/kg	0.5	14	16	15	25
Lead, Pb	mg/kg	1	20	66	34	76
Nickel, Ni	mg/kg	0.5	1.9	3.7	4.6	6.0
Zinc, Zn	mg/kg	2	11	49	48	83

Mercury in Soil [AN312] Tested: 16/6/2025

			BH11_0.1-0.2	BH11_0.6-0.7	BH12_0.1-0.2	BH23_0.1-0.2	BH23_0.5-0.6
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
PARAMETER	UOM	LOR	SE284537.001	SE284537.002	SE284537.003	SE284537.004	SE284537.005
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

			BH24_0.1-0.2	BH19_0.2-0.3	BH19_0.6-0.7	BH13_0.2-0.3	BH27_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
PARAMETER	UOM	LOR	SE284537.006	SE284537.007	SE284537.008	SE284537.009	SE284537.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

			BH27_0.4-0.5	BH25_0.1-0.2	BH26_0.0-0.1	BH02_0.1-0.2	BH02_0.4-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
PARAMETER	UOM	LOR	SE284537.011	SE284537.012	SE284537.013	SE284537.014	SE284537.015
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

			BH18_0.1-0.2	BH10_0.1-0.2	BH10_0.7-0.8	BH16_0.2-0.3	BH17_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
PARAMETER	UOM	LOR	SE284537.016	SE284537.017	SE284537.018	SE284537.019	SE284537.020
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

			BH17_0.6-0.7	BH20_0.1-0.2	BH22_0.1-0.2	BH21_0.1-0.2	BH15_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	11/6/2025	11/6/2025	11/6/2025
PARAMETER	UOM	LOR	SE284537.021	SE284537.022	SE284537.023	SE284537.024	SE284537.025
Mercury	mg/kg	0.05	<0.05	0.06	0.05	<0.05	0.10

			BH15_0.5-0.6	QD01	QD02	QD03
			SOIL	SOIL	SOIL	SOIL
			-	-	-	-
			11/6/2025	11/6/2025	11/6/2025	11/6/2025
PARAMETER	UOM	LOR	SE284537.026	SE284537.027	SE284537.028	SE284537.029
Mercury	mg/kg	0.05	<0.05	0.14	0.05	0.05

Moisture Content [AN002] Tested: 16/6/2025

			BH11_0.1-0.2	BH11_0.6-0.7	BH12_0.1-0.2	BH23_0.1-0.2	BH23_0.5-0.6
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
PARAMETER	UOM	LOR	SE284537.001	SE284537.002	SE284537.003	SE284537.004	SE284537.005
% Moisture	%w/w	1	13.6	13.3	17.5	22.1	20.7

			BH24_0.1-0.2	BH19_0.2-0.3	BH19_0.6-0.7	BH13_0.2-0.3	BH27_0.0-0.1
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
PARAMETER	UOM	LOR	SE284537.006	SE284537.007	SE284537.008	SE284537.009	SE284537.010
% Moisture	%w/w	1	24.2	17.9	19.8	17.4	23.2

			BH27_0.4-0.5	BH25_0.1-0.2	BH26_0.0-0.1	BH02_0.1-0.2	BH02_0.4-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
PARAMETER	UOM	LOR	SE284537.011	SE284537.012	SE284537.013	SE284537.014	SE284537.015
% Moisture	%w/w	1	19.3	22.8	19.0	25.5	20.3

			BH18_0.1-0.2	BH10_0.1-0.2	BH10_0.7-0.8	BH16_0.2-0.3	BH17_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
PARAMETER	UOM	LOR	SE284537.016	SE284537.017	SE284537.018	SE284537.019	SE284537.020
% Moisture	%w/w	1	23.2	15.8	22.2	23.2	21.6

			BH17_0.6-0.7	BH20_0.1-0.2	BH22_0.1-0.2	BH21_0.1-0.2	BH15_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	11/6/2025	11/6/2025	11/6/2025
PARAMETER	UOM	LOR	SE284537.021	SE284537.022	SE284537.023	SE284537.024	SE284537.025
% Moisture	%w/w	1	21.5	25.7	27.5	16.7	27.4

			BH15_0.5-0.6	QD01	QD02	QD03	TRIP BLANK
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			11/6/2025	11/6/2025	11/6/2025	11/6/2025	11/6/2025
PARAMETER	UOM	LOR	SE284537.026	SE284537.027	SE284537.028	SE284537.029	SE284537.031
% Moisture	%w/w	1	20.7	12.8	17.8	24.9	<1.0

Fibre Identification in soil [AS4964/AN602] Tested: 17/6/2025

			BH11_0.1-0.2	BH12_0.1-0.2	BH23_0.1-0.2	BH24_0.1-0.2	BH19_0.2-0.3
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
PARAMETER	UOM	LOR	SE284537.001	SE284537.003	SE284537.004	SE284537.006	SE284537.007
Date Analysed*	No unit	-	18/06/2025 00:00	18/06/2025 00:00	18/06/2025 00:00	18/06/2025 00:00	18/06/2025 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

			BH13_0.2-0.3	BH27_0.0-0.1	BH25_0.1-0.2	BH26_0.0-0.1	BH02_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
PARAMETER	UOM	LOR	SE284537.009	SE284537.010	SE284537.012	SE284537.013	SE284537.014
Date Analysed*	No unit	-	18/06/2025 00:00	18/06/2025 00:00	18/06/2025 00:00	18/06/2025 00:00	18/06/2025 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

			BH18_0.1-0.2	BH10_0.1-0.2	BH16_0.2-0.3	BH17_0.1-0.2	BH20_0.1-0.2
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			10/6/2025	10/6/2025	10/6/2025	10/6/2025	10/6/2025
PARAMETER	UOM	LOR	SE284537.016	SE284537.017	SE284537.019	SE284537.020	SE284537.022
Date Analysed*	No unit	-	18/06/2025 00:00	18/06/2025 00:00	18/06/2025 00:00	18/06/2025 00:00	18/06/2025 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

			BH22_0.1-0.2	BH21_0.1-0.2	BH15_0.1-0.2
			SOIL	SOIL	SOIL
			-	-	-
			11/6/2025	11/6/2025	11/6/2025
PARAMETER	UOM	LOR	SE284537.023	SE284537.024	SE284537.025
Date Analysed*	No unit	-	18/06/2025 00:00	18/06/2025 00:00	18/06/2025 00:00
Asbestos Detected	No unit	-	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01

VOCs in Water [AN433] Tested: 13/6/2025

			R01
			SOIL
			-
			11/6/2025
			SE284537.030
PARAMETER	UOM	LOR	
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: 13/6/2025

			R01
			SOIL
			-
			11/6/2025
PARAMETER	UOM	LOR	SE284537.030
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: 16/6/2025

			R01
			SOIL
			-
			11/6/2025
PARAMETER	UOM	LOR	SE284537.030
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: 18/6/2025

			R01
			SOIL
			-
			11/6/2025
PARAMETER	UOM	LOR	SE284537.030
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: 17/6/2025

			R01
			SOIL
			-
			11/6/2025
PARAMETER	UOM	LOR	SE284537.030
Mercury	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 unequivocally 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.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

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: www.sgs.com.au/en-gb/environment-health-and-safety.

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CLIENT DETAILS

LABORATORY DETAILS

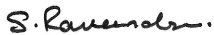
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Project	E26536 93-107 Cecil Avenue & 9-10 Roger	SGS Reference	SE284537 R0
Order Number	E26536	Date Received	12 Jun 2025
Samples	18	Date Reported	19 Jun 2025

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.
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*
SE284537.001	BH11_0.1-0.2	Soil	206g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE284537.003	BH12_0.1-0.2	Soil	195g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE284537.004	BH23_0.1-0.2	Soil	172g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE284537.006	BH24_0.1-0.2	Soil	220g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE284537.007	BH19_0.2-0.3	Soil	134g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE284537.009	BH13_0.2-0.3	Soil	241g Clay, Sand, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE284537.010	BH27_0.0-0.1	Soil	172g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE284537.012	BH25_0.1-0.2	Soil	164g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE284537.013	BH26_0.0-0.1	Soil	180g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE284537.014	BH02_0.1-0.2	Soil	196g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE284537.016	BH18_0.1-0.2	Soil	150g Clay, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE284537.017	BH10_0.1-0.2	Soil	208g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE284537.019	BH16_0.2-0.3	Soil	138g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE284537.020	BH17_0.1-0.2	Soil	175g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE284537.022	BH20_0.1-0.2	Soil	136g Clay, Sand, Soil, Rocks	10 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE284537.023	BH22_0.1-0.2	Soil	113g Clay, Sand, Rocks	11 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE284537.024	BH21_0.1-0.2	Soil	176g Clay, Sand, Rocks	11 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE284537.025	BH15_0.1-0.2	Soil	177g Clay, Sand, Soil, Rocks	11 Jun 2025	18 Jun 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01

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 unequivocally 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- <ul style="list-style-type: none"> (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: www.sgs.com.au/en-gb/environment-health-and-safety.

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CERTIFICATE OF ANALYSIS 383274

Client Details

Client	El Australia
Attention	Amber Huang
Address	Suite 6.01, 55 Miller Street, Pyrmont, NSW, 2009

Sample Details

Your Reference	<u>E26536, 93-107 Cecil Ave&9-10 Roger Ave, Castle Hill</u>
Number of Samples	3 Soil
Date samples received	13/06/2025
Date completed instructions received	13/06/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	20/06/2025
Date of Issue	20/06/2025
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Results Approved By

Giovanni Agosti, Group Technical Manager
Jack Wallis, Senior Chemist
Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil				
Our Reference		383274-1	383274-2	383274-3
Your Reference	UNITS	QT01	QT02	QT03
Date Sampled		10/06/2025	10/06/2025	11/06/2025
Type of sample		Soil	Soil	Soil
Date extracted	-	16/06/2025	16/06/2025	16/06/2025
Date analysed	-	17/06/2025	17/06/2025	17/06/2025
TRH C ₆ - C ₉	mg/kg	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25
vTRH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	85	88	90

svTRH (C10-C40) in Soil				
Our Reference		383274-1	383274-2	383274-3
Your Reference	UNITS	QT01	QT02	QT03
Date Sampled		10/06/2025	10/06/2025	11/06/2025
Type of sample		Soil	Soil	Soil
Date extracted	-	16/06/2025	16/06/2025	16/06/2025
Date analysed	-	18/06/2025	18/06/2025	18/06/2025
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50
Surrogate o-Terphenyl	%	76	78	77

Acid Extractable metals in soil				
Our Reference		383274-1	383274-2	383274-3
Your Reference	UNITS	QT01	QT02	QT03
Date Sampled		10/06/2025	10/06/2025	11/06/2025
Type of sample		Soil	Soil	Soil
Date prepared	-	16/06/2025	16/06/2025	16/06/2025
Date analysed	-	19/06/2025	19/06/2025	19/06/2025
Arsenic	mg/kg	10	5	12
Cadmium	mg/kg	<0.4	<0.4	<0.4
Chromium	mg/kg	12	15	21
Copper	mg/kg	24	20	34
Lead	mg/kg	37	35	100
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	5	7	9
Zinc	mg/kg	37	45	70

Moisture				
Our Reference		383274-1	383274-2	383274-3
Your Reference	UNITS	QT01	QT02	QT03
Date Sampled		10/06/2025	10/06/2025	11/06/2025
Type of sample		Soil	Soil	Soil
Date prepared	-	16/06/2025	16/06/2025	16/06/2025
Date analysed	-	17/06/2025	17/06/2025	17/06/2025
Moisture	%	13	19	28

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	<p>Determination of various metals by ICP-AES.</p> <p>Total Phosphate determined stoichiometrically from Phosphorus (assumed to be present as Phosphate).</p> <p>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.</p>
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	<p>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.</p>
Org-020	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.</p> <p>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.</p> <p>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).</p>
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	<p>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.</p> <p>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.</p>

Client Reference: E26536, 93-107 Cecil Ave&9-10 Roger Ave, Castle Hill

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	[NT]
Date extracted	-			16/06/2025	[NT]	[NT]	[NT]	[NT]	16/06/2025	[NT]
Date analysed	-			17/06/2025	[NT]	[NT]	[NT]	[NT]	17/06/2025	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	103	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	111	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	101	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	97	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	95	[NT]	[NT]	[NT]	[NT]	100	[NT]

Client Reference: E26536, 93-107 Cecil Ave&9-10 Roger Ave, Castle Hill

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	[NT]
Date extracted	-			16/06/2025	[NT]	[NT]	[NT]	[NT]	16/06/2025	[NT]
Date analysed	-			17/06/2025	[NT]	[NT]	[NT]	[NT]	17/06/2025	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	87	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	71	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	87	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	71	[NT]
Surrogate o-Terphenyl	%		Org-020	83	[NT]	[NT]	[NT]	[NT]	111	[NT]

Client Reference: E26536, 93-107 Cecil Ave&9-10 Roger Ave, Castle Hill

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	[NT]
Date prepared	-			16/06/2025	[NT]	[NT]	[NT]	[NT]	16/06/2025	[NT]
Date analysed	-			19/06/2025	[NT]	[NT]	[NT]	[NT]	19/06/2025	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	110	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	103	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[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.

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.

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.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

CLIENT DETAILS

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Project **E26536 93-107 Cecil Avenue & 9-10 Roger**
 Order Number **E26536**
 Samples 7

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SGS Reference **SE284685 R0**
 Date Received 13/6/2025
 Date Reported 23/6/2025

COMMENTS


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

No respirable fibres detected in all soil samples using trace analysis technique.

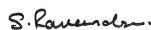
A portion of the sample supplied has been sub-sampled for asbestos analysis in soil according to SGS In-house procedures due to large volume. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Industries and Environment recommends supplying approximately 50-100g of sample in a separate container.

Asbestos analysed by Approved Identifier Cameron Smith.

SIGNATORIES



Dong LIANG
 Metals/Inorganics Team Leader



Ravee SIVASUBRAMANIAM
 Hygiene Team Leader



Teresa NGUYEN
 Organic Chemist

VOC's in Soil [AN433] Tested: 17/6/2025

PARAMETER	UOM	LOR	BH09_0.3-0.5	BH09_1.0-1.2	BH06_0.4-0.5	BH06_1.0-1.1	BH03_0.3-.5
			SOIL 11/6/2025 SE284685.001	SOIL 11/6/2025 SE284685.002	SOIL 13/6/2025 SE284685.003	SOIL 13/6/2025 SE284685.004	SOIL 12/6/2025 SE284685.005
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	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate*	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 17/6/2025 (continued)

PARAMETER	UOM	LOR	BH09_0.3-0.5	BH09_1.0-1.2	BH06_0.4-0.5	BH06_1.0-1.1	BH03_0.3-.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			11/6/2025 SE284685.001	11/6/2025 SE284685.002	13/6/2025 SE284685.003	13/6/2025 SE284685.004	12/6/2025 SE284685.005
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	<24	<24	<24	<24	<24
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10

VOC's in Soil [AN433] Tested: 17/6/2025 (continued)

PARAMETER	UOM	LOR	BH14_0.4-.0.5	BH14_0.9-1.0
			SOIL - 13/6/2025 SE284685.006	SOIL - 13/6/2025 SE284685.007
Benzene	mg/kg	0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1
Chloromethane	mg/kg	1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1
Chloroethane	mg/kg	1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10
Iodomethane	mg/kg	5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1
MTBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1
Vinyl acetate*	mg/kg	10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1
Chloroform (THM)	mg/kg	0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10
Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1
Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1
Bromoform (THM)	mg/kg	0.1	<0.1	<0.1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 17/6/2025 (continued)

PARAMETER	UOM	LOR	BH14_0.4-.0.5	BH14_0.9-1.0
			SOIL - 13/6/2025 SE284685.006	SOIL - 13/6/2025 SE284685.007
n-propylbenzene	mg/kg	0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1
Total VOC*	mg/kg	24	<24	<24
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0
MEK (2-butanone)	mg/kg	10	<10	<10

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 17/6/2025

PARAMETER	UOM	LOR	BH09_0.3-0.5	BH09_1.0-1.2	BH06_0.4-0.5	BH06_1.0-1.1	BH03_0.3-.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			11/6/2025 SE284685.001	11/6/2025 SE284685.002	13/6/2025 SE284685.003	13/6/2025 SE284685.004	12/6/2025 SE284685.005
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	BH14_0.4-.0.5	BH14_0.9-1.0
			SOIL	SOIL
			13/6/2025 SE284685.006	13/6/2025 SE284685.007
TRH C6-C9	mg/kg	20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 17/6/2025

PARAMETER	UOM	LOR	BH09_0.3-0.5	BH09_1.0-1.2	BH06_0.4-0.5	BH06_1.0-1.1	BH03_0.3-.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			11/6/2025 SE284685.001	11/6/2025 SE284685.002	13/6/2025 SE284685.003	13/6/2025 SE284685.004	12/6/2025 SE284685.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	79	<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	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH14_0.4-.0.5	BH14_0.9-1.0
			SOIL	SOIL
			13/6/2025 SE284685.006	13/6/2025 SE284685.007
TRH C10-C14	mg/kg	20	<20	<20
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-C16	mg/kg	25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 17/6/2025

PARAMETER	UOM	LOR	BH09_0.3-0.5	BH09_1.0-1.2	BH06_0.4-0.5	BH06_1.0-1.1	BH03_0.3-.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			11/6/2025 SE284685.001	11/6/2025 SE284685.002	13/6/2025 SE284685.003	13/6/2025 SE284685.004	12/6/2025 SE284685.005
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	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH14_0.4-.0.5	BH14_0.9-1.0
			SOIL	SOIL
			13/6/2025 SE284685.006	13/6/2025 SE284685.007
Naphthalene	mg/kg	0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1
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	<0.1	<0.1
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	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8

OP Pesticides in Soil [AN420] Tested: 17/6/2025

PARAMETER	UOM	LOR	BH09_0.3-0.5	BH06_0.4-0.5	BH03_0.3-.5	BH14_0.4-.0.5
			SOIL	SOIL	SOIL	SOIL
			11/6/2025 SE284685.001	13/6/2025 SE284685.003	12/6/2025 SE284685.005	13/6/2025 SE284685.006
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	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
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	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
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7

OC Pesticides in Soil [AN420] Tested: 17/6/2025

PARAMETER	UOM	LOR	BH09_0.3-0.5	BH06_0.4-0.5	BH03_0.3-.5	BH14_0.4-.0.5
			SOIL	SOIL	SOIL	SOIL
			11/6/2025 SE284685.001	13/6/2025 SE284685.003	12/6/2025 SE284685.005	13/6/2025 SE284685.006
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	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
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	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
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	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
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

PCBs in Soil [AN420] Tested: 17/6/2025

PARAMETER	UOM	LOR	BH09_0.3-0.5	BH06_0.4-0.5	BH03_0.3-.5	BH14_0.4-.0.5
			SOIL - 11/6/2025 SE284685.001	SOIL - 13/6/2025 SE284685.003	SOIL - 12/6/2025 SE284685.005	SOIL - 13/6/2025 SE284685.006
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 17/6/2025

PARAMETER	UOM	LOR	BH09_0.3-0.5	BH09_1.0-1.2	BH06_0.4-0.5	BH06_1.0-1.1	BH03_0.3-.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			11/6/2025 SE284685.001	11/6/2025 SE284685.002	13/6/2025 SE284685.003	13/6/2025 SE284685.004	12/6/2025 SE284685.005
Arsenic, As	mg/kg	1	7	5	4	6	9
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	13	12	13	12
Copper, Cu	mg/kg	0.5	15	30	19	29	15
Lead, Pb	mg/kg	1	31	23	17	21	30
Nickel, Ni	mg/kg	0.5	4.7	3.4	3.9	2.3	4.4
Zinc, Zn	mg/kg	2	32	36	31	33	54

PARAMETER	UOM	LOR	BH14_0.4-.0.5	BH14_0.9-1.0
			SOIL	SOIL
			13/6/2025 SE284685.006	13/6/2025 SE284685.007
Arsenic, As	mg/kg	1	6	5
Cadmium, Cd	mg/kg	0.3	0.3	<0.3
Chromium, Cr	mg/kg	0.5	9.6	10
Copper, Cu	mg/kg	0.5	42	45
Lead, Pb	mg/kg	1	60	30
Nickel, Ni	mg/kg	0.5	5.2	8.4
Zinc, Zn	mg/kg	2	250	220

Mercury in Soil [AN312] Tested: 17/6/2025

			BH09_0.3-0.5	BH09_1.0-1.2	BH06_0.4-0.5	BH06_1.0-1.1	BH03_0.3-.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			11/6/2025	11/6/2025	13/6/2025	13/6/2025	12/6/2025
PARAMETER	UOM	LOR	SE284685.001	SE284685.002	SE284685.003	SE284685.004	SE284685.005
Mercury	mg/kg	0.05	0.09	<0.05	<0.05	<0.05	<0.05

			BH14_0.4-.0.5	BH14_0.9-1.0
			SOIL	SOIL
			-	-
			13/6/2025	13/6/2025
PARAMETER	UOM	LOR	SE284685.006	SE284685.007
Mercury	mg/kg	0.05	0.06	<0.05

Moisture Content [AN002] Tested: 17/6/2025

			BH09_0.3-0.5	BH09_1.0-1.2	BH06_0.4-0.5	BH06_1.0-1.1	BH03_0.3-.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			11/6/2025	11/6/2025	13/6/2025	13/6/2025	12/6/2025
PARAMETER	UOM	LOR	SE284685.001	SE284685.002	SE284685.003	SE284685.004	SE284685.005
% Moisture	%w/w	1	22.7	20.2	20.3	18.3	20.3

			BH14_0.4-.0.5	BH14_0.9-1.0
			SOIL	SOIL
			-	-
			13/6/2025	13/6/2025
PARAMETER	UOM	LOR	SE284685.006	SE284685.007
% Moisture	%w/w	1	22.1	18.9

Fibre Identification in soil [AS4964/AN602] Tested: 20/6/2025

PARAMETER	UOM	LOR	BH09_0.3-0.5	BH06_0.4-0.5	BH03_0.3-.5	BH14_0.4-.0.5
			SOIL - 11/6/2025 SE284685.001	SOIL - 13/6/2025 SE284685.003	SOIL - 12/6/2025 SE284685.005	SOIL - 13/6/2025 SE284685.006
Date Analysed*	No unit	-	23/06/2025 00:00	23/06/2025 00:00	23/06/2025 00:00	23/06/2025 00:00
Asbestos Detected	No unit	-	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01

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.
- 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.
- 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
- 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 unequivocally 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.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

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: www.sgs.com.au/en-gb/environment-health-and-safety.

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 Order Number **E26536**
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SGS Reference **SE284685 R0**
 Date Received 13 Jun 2025
 Date Reported 23 Jun 2025

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.
 A portion of the sample supplied has been sub-sampled for asbestos analysis in soil according to SGS In-house procedures due to large volume.
 We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Industries and Environment recommends supplying approximately 50-100g of sample in a separate container.
 Asbestos analysed by Approved Identifier Cameron Smith.

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*
SE284685.001	BH09_0.3-0.5	Soil	153g Clay, Sand, Rocks, Bitumen	11 Jun 2025	23 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE284685.003	BH06_0.4-0.5	Soil	93g Clay	13 Jun 2025	23 Jun 2025	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE284685.005	BH03_0.3-.5	Soil	91g Clay, Sand, Rocks	12 Jun 2025	23 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE284685.006	BH14_0.4-.0.5	Soil	103g Clay, Sand, Rocks	13 Jun 2025	23 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01

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 unequivocally 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- <ul style="list-style-type: none"> (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: www.sgs.com.au/en-gb/environment-health-and-safety.

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SGS Reference **SE285047 R0**
 Date Received 20/6/2025
 Date Reported 30/6/2025

COMMENTS

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

No respirable fibres detected in all soil samples using trace analysis technique.

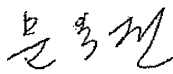
A portion of the sample supplied has been sub-sampled for asbestos analysis in soil according to SGS In-house procedures due to large volume. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Industries and Environment recommends supplying approximately 50-100g of sample in a separate container.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin

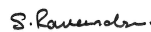
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 Metals/Inorganics Team Leader



Gemma MOON
 Organic Chemist



Ravee SIVASUBRAMANIAM
 Hygiene Team Leader



Teresa NGUYEN
 Organic Chemist

VOC's in Soil [AN433] Tested: 24/6/2025

PARAMETER	UOM	LOR	BH04_0.3-0.5	BH05_0.1-0.4	BH08M_0.3-0.5	BH08M_0.8-1.0	BH07_0.3-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/6/2025 SE285047.001	16/6/2025 SE285047.002	16/6/2025 SE285047.003	16/6/2025 SE285047.004	18/6/2025 SE285047.005
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	<1	<1
Chloromethane	mg/kg	1	<1	<1	<1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1	<1	<1	<1
Chloroethane	mg/kg	1	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1	<1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10	<10	<10	<10
Iodomethane	mg/kg	5	<5	<5	<5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vinyl acetate*	mg/kg	10	<10	<10	<10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloroform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10	<10	<10	<10
Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5	<5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromoform (THM)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	<1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 24/6/2025 (continued)

PARAMETER	UOM	LOR	BH04_0.3-0.5	BH05_0.1-0.4	BH08M_0.3-0.5	BH08M_0.8-1.0	BH07_0.3-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/6/2025 SE285047.001	16/6/2025 SE285047.002	16/6/2025 SE285047.003	16/6/2025 SE285047.004	18/6/2025 SE285047.005
n-propylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total VOC*	mg/kg	24	<24	<24	<24	<24	<24
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8	<1.8	<1.8	<1.8
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0	<3.0	<3.0	<3.0
MEK (2-butanone)	mg/kg	10	<10	<10	<10	<10	<10

VOC's in Soil [AN433] Tested: 24/6/2025 (continued)

PARAMETER	UOM	LOR	BH07_0.6-0.8	BH01M_0.3-0.5
			SOIL - 18/6/2025 SE285047.006	SOIL - 17/6/2025 SE285047.007
Benzene	mg/kg	0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1
Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1
Chloromethane	mg/kg	1	<1	<1
Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1
Bromomethane	mg/kg	1	<1	<1
Chloroethane	mg/kg	1	<1	<1
Trichlorofluoromethane	mg/kg	1	<1	<1
Acetone (2-propanone)	mg/kg	10	<10	<10
Iodomethane	mg/kg	5	<5	<5
1,1-dichloroethene	mg/kg	0.1	<0.1	<0.1
Acrylonitrile	mg/kg	0.1	<0.1	<0.1
Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5
Allyl chloride	mg/kg	0.1	<0.1	<0.1
Carbon disulfide	mg/kg	0.5	<0.5	<0.5
trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1
MTBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1
1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1
Vinyl acetate*	mg/kg	10	<10	<10
cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1
Bromochloromethane	mg/kg	0.1	<0.1	<0.1
Chloroform (THM)	mg/kg	0.1	<0.1	<0.1
2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1
1,2-dichloroethane	mg/kg	0.1	<0.1	<0.1
1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1
1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1
Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1
Dibromomethane	mg/kg	0.1	<0.1	<0.1
1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1
Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	<0.1	<0.1
2-nitropropane	mg/kg	10	<10	<10
Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1
MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1
cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1
trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1
1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1
1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1
Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1
2-hexanone (MBK)	mg/kg	5	<5	<5
1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1
Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1
1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1
Chlorobenzene	mg/kg	0.1	<0.1	<0.1
Bromoform (THM)	mg/kg	0.1	<0.1	<0.1
Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1
1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1
1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1
trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1
Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1
Bromobenzene	mg/kg	0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 24/6/2025 (continued)

PARAMETER	UOM	LOR	BH07_0.6-0.8	BH01M_0.3-0.5
			SOIL - 18/6/2025 SE285047.006	SOIL - 17/6/2025 SE285047.007
n-propylbenzene	mg/kg	0.1	<0.1	<0.1
2-chlorotoluene	mg/kg	0.1	<0.1	<0.1
4-chlorotoluene	mg/kg	0.1	<0.1	<0.1
1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1
tert-butylbenzene	mg/kg	0.1	<0.1	<0.1
1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1
sec-butylbenzene	mg/kg	0.1	<0.1	<0.1
1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1
1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1
p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1
1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1
n-butylbenzene	mg/kg	0.1	<0.1	<0.1
1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1
1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1
Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1
1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1
Total VOC*	mg/kg	24	<24	<24
Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0
Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8
Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	<1.8	<1.8
Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0
MEK (2-butanone)	mg/kg	10	<10	<10

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 24/6/2025

PARAMETER	UOM	LOR	BH04_0.3-0.5	BH05_0.1-0.4	BH08M_0.3-0.5	BH08M_0.8-1.0	BH07_0.3-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/6/2025 SE285047.001	16/6/2025 SE285047.002	16/6/2025 SE285047.003	16/6/2025 SE285047.004	18/6/2025 SE285047.005
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	BH07_0.6-0.8	BH01M_0.3-0.5
			SOIL	SOIL
			18/6/2025 SE285047.006	17/6/2025 SE285047.007
TRH C6-C9	mg/kg	20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 24/6/2025

PARAMETER	UOM	LOR	BH04_0.3-0.5	BH05_0.1-0.4	BH08M_0.3-0.5	BH08M_0.8-1.0	BH07_0.3-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/6/2025 SE285047.001	16/6/2025 SE285047.002	16/6/2025 SE285047.003	16/6/2025 SE285047.004	18/6/2025 SE285047.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<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	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH07_0.6-0.8	BH01M_0.3-0.5
			SOIL	SOIL
			18/6/2025 SE285047.006	17/6/2025 SE285047.007
TRH C10-C14	mg/kg	20	<20	<20
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-C16	mg/kg	25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 24/6/2025

PARAMETER	UOM	LOR	BH04_0.3-0.5	BH05_0.1-0.4	BH08M_0.3-0.5	BH08M_0.8-1.0	BH07_0.3-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/6/2025 SE285047.001	16/6/2025 SE285047.002	16/6/2025 SE285047.003	16/6/2025 SE285047.004	18/6/2025 SE285047.005
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	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH07_0.6-0.8	BH01M_0.3-0.5
			SOIL	SOIL
			18/6/2025 SE285047.006	17/6/2025 SE285047.007
Naphthalene	mg/kg	0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1
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	<0.1	<0.1
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	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8

OP Pesticides in Soil [AN420] Tested: 24/6/2025

PARAMETER	UOM	LOR	BH04_0.3-0.5	BH05_0.1-0.4	BH08M_0.3-0.5	BH07_0.3-0.5	BH01M_0.3-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/6/2025 SE285047.001	16/6/2025 SE285047.002	16/6/2025 SE285047.003	18/6/2025 SE285047.005	17/6/2025 SE285047.007
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

OC Pesticides in Soil [AN420] Tested: 24/6/2025

PARAMETER	UOM	LOR	BH04_0.3-0.5	BH05_0.1-0.4	BH08M_0.3-0.5	BH07_0.3-0.5	BH01M_0.3-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/6/2025 SE285047.001	16/6/2025 SE285047.002	16/6/2025 SE285047.003	18/6/2025 SE285047.005	17/6/2025 SE285047.007
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

PCBs in Soil [AN420] Tested: 24/6/2025

PARAMETER	UOM	LOR	BH04_0.3-0.5	BH05_0.1-0.4	BH08M_0.3-0.5	BH07_0.3-0.5	BH01M_0.3-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/6/2025 SE285047.001	16/6/2025 SE285047.002	16/6/2025 SE285047.003	18/6/2025 SE285047.005	17/6/2025 SE285047.007
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

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/6/2025

PARAMETER	UOM	LOR	BH04_0.3-0.5	BH05_0.1-0.4	BH08M_0.3-0.5	BH08M_0.8-1.0	BH07_0.3-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			18/6/2025 SE285047.001	16/6/2025 SE285047.002	16/6/2025 SE285047.003	16/6/2025 SE285047.004	18/6/2025 SE285047.005
Arsenic, As	mg/kg	1	7	26	6	5	6
Cadmium, Cd	mg/kg	0.3	<0.3	0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	18	12	5.6	14
Copper, Cu	mg/kg	0.5	16	24	9.3	13	22
Lead, Pb	mg/kg	1	19	41	17	19	31
Nickel, Ni	mg/kg	0.5	3.0	7.4	1.0	<0.5	7.2
Zinc, Zn	mg/kg	2	9.9	51	6.7	6.8	68

PARAMETER	UOM	LOR	BH07_0.6-0.8	BH01M_0.3-0.5
			SOIL	SOIL
			18/6/2025 SE285047.006	17/6/2025 SE285047.007
Arsenic, As	mg/kg	1	7	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	10	11
Copper, Cu	mg/kg	0.5	14	14
Lead, Pb	mg/kg	1	17	26
Nickel, Ni	mg/kg	0.5	2.7	4.0
Zinc, Zn	mg/kg	2	17	19

Mercury in Soil [AN312] Tested: 24/6/2025

			BH04_0.3-0.5	BH05_0.1-0.4	BH08M_0.3-0.5	BH08M_0.8-1.0	BH07_0.3-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			18/6/2025	16/6/2025	16/6/2025	16/6/2025	18/6/2025
PARAMETER	UOM	LOR	SE285047.001	SE285047.002	SE285047.003	SE285047.004	SE285047.005
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

			BH07_0.6-0.8	BH01M_0.3-0.5
			SOIL	SOIL
			-	-
			18/6/2025	17/6/2025
PARAMETER	UOM	LOR	SE285047.006	SE285047.007
Mercury	mg/kg	0.05	<0.05	<0.05

Moisture Content [AN002] Tested: 24/6/2025

			BH04_0.3-0.5	BH05_0.1-0.4	BH08M_0.3-0.5	BH08M_0.8-1.0	BH07_0.3-0.5
			SOIL	SOIL	SOIL	SOIL	SOIL
			-	-	-	-	-
			18/6/2025	16/6/2025	16/6/2025	16/6/2025	18/6/2025
PARAMETER	UOM	LOR	SE285047.001	SE285047.002	SE285047.003	SE285047.004	SE285047.005
% Moisture	%w/w	1	24.1	17.9	25.6	15.6	18.1

			BH07_0.6-0.8	BH01M_0.3-0.5
			SOIL	SOIL
			-	-
			18/6/2025	17/6/2025
PARAMETER	UOM	LOR	SE285047.006	SE285047.007
% Moisture	%w/w	1	18.2	22.5

Fibre Identification in soil [AS4964/AN602] Tested: 26/6/2025

PARAMETER	UOM	LOR	BH04_0.3-0.5	BH05_0.1-0.4	BH08M_0.3-0.5	BH07_0.3-0.5	BH01M_0.3-0.5
			SOIL - 18/6/2025 SE285047.001	SOIL - 16/6/2025 SE285047.002	SOIL - 16/6/2025 SE285047.003	SOIL - 18/6/2025 SE285047.005	SOIL - 17/6/2025 SE285047.007
Date Analysed*	No unit	-	27/06/2025 00:00	27/06/2025 00:00	27/06/2025 00:00	27/06/2025 00:00	27/06/2025 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

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.
- 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.
- 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
- 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 unequivocally 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.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

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: www.sgs.com.au/en-gb/environment-health-and-safety.

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LABORATORY DETAILS

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Order Number	E26536	Date Received	20 Jun 2025
Samples	5	Date Reported	30 Jun 2025

COMMENTS

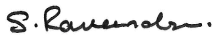
Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all soil samples using trace analysis technique.

A portion of the sample supplied has been sub-sampled for asbestos analysis in soil according to SGS In-house procedures due to large volume. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Industries and Environment recommends supplying approximately 50-100g of sample in a separate container.

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*
SE285047.001	BH04_0.3-0.5	Soil	122g Clay, Rocks	18 Jun 2025	27 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285047.002	BH05_0.1-0.4	Soil	127g Clay, Sand, Rocks	16 Jun 2025	27 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285047.003	BH08M_0.3-0.5	Soil	138g Clay, Rocks	16 Jun 2025	27 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285047.005	BH07_0.3-0.5	Soil	135g Clay, Rocks	18 Jun 2025	27 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01
SE285047.007	BH01M_0.3-0.5	Soil	129g Clay, Rocks	17 Jun 2025	27 Jun 2025	No Asbestos Found at RL of 0.1g/kg	<0.01

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 unequivocally 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- <ul style="list-style-type: none"> (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: www.sgs.com.au/en-gb/environment-health-and-safety.

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 Order Number **E26536**
 Samples 7

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SGS Reference **SE285800 R0**
 Date Received 7/7/2025
 Date Reported 11/7/2025

COMMENTS

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

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Dong LIANG
 Metals/Inorganics Team Leader



Kamrul AHSAN
 Senior Chemist



Ly Kim HA
 Organic Section Head

VOCs in Water [AN433] Tested: 8/7/2025

PARAMETER	UOM	LOR	BH01M	BH03M	BH08M	GWQD01	R01
			WATER 7/7/2025 SE285800.001	WATER 7/7/2025 SE285800.002	WATER 7/7/2025 SE285800.003	WATER 7/7/2025 SE285800.004	WATER 7/7/2025 SE285800.005
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	1.3	<0.5	<0.5	1.2	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	2	<1	<1	2	<1
o-xylene	µg/L	0.5	0.6	<0.5	<0.5	0.7	<0.5
Total Xylenes	µg/L	1.5	2.4	<1.5	<1.5	2.3	<1.5
Total BTEX	µg/L	3	4	<3	<3	4	<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	3	<2	<2	-	-
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	<0.5	<0.5	-	-
Bromochloromethane	µg/L	0.5	<0.5	<0.5	<0.5	-	-
Chloroform (THM)	µg/L	0.5	9.9	3.0	2.7	-	-
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	<0.5	<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	<0.5	<0.5	-	-

VOCs in Water [AN433] Tested: 8/7/2025 (continued)

PARAMETER	UOM	LOR	BH01M	BH03M	BH08M	GWQD01	R01
			WATER - 7/7/2025 SE285800.001	WATER - 7/7/2025 SE285800.002	WATER - 7/7/2025 SE285800.003	WATER - 7/7/2025 SE285800.004	WATER - 7/7/2025 SE285800.005
Bromobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
n-propylbenzene	µg/L	0.5	<0.5	<0.5	<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	<0.5	<0.5	-	-
tert-butylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
1,2,4-trimethylbenzene	µg/L	0.5	0.8	<0.5	<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	<0.5	<0.5	-	-
1,2-dichlorobenzene	µg/L	0.5	<0.5	<0.5	<0.5	-	-
n-butylbenzene	µg/L	0.5	<0.5	<0.5	<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	-	-
cis-1,4-dichloro-2-butene	µg/L	1	<1	<1	<1	-	-
Total VOC	µg/L	10	18	<10	<10	-	-

VOCs in Water [AN433] Tested: 8/7/2025 (continued)

PARAMETER	UOM	LOR	TRIP BLANK	TRIP SPIKE
			WATER - 7/7/2025 SE285800.006	WATER - 7/7/2025 SE285800.007
Benzene	µg/L	0.5	<0.5	[103%]
Toluene	µg/L	0.5	<0.5	[101%]
Ethylbenzene	µg/L	0.5	<0.5	[99%]
m/p-xylene	µg/L	1	<1	[99%]
o-xylene	µg/L	0.5	<0.5	[100%]
Total Xylenes	µg/L	1.5	<1.5	-
Total BTEX	µg/L	3	<3	-
Naphthalene (VOC)*	µg/L	0.5	<0.5	[93%]
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: 8/7/2025 (continued)

PARAMETER	UOM	LOR	TRIP BLANK	TRIP SPIKE
			WATER - 7/7/2025 SE285800.006	WATER - 7/7/2025 SE285800.007
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	-	-
cis-1,4-dichloro-2-butene	µg/L	1	-	-
Total VOC	µg/L	10	-	-

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 8/7/2025

PARAMETER	UOM	LOR	BH01M	BH03M	BH08M	GWQD01	R01
			WATER - 7/7/2025 SE285800.001	WATER - 7/7/2025 SE285800.002	WATER - 7/7/2025 SE285800.003	WATER - 7/7/2025 SE285800.004	WATER - 7/7/2025 SE285800.005
TRH C6-C9	µg/L	40	42	<40	<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	<50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50	<50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 8/7/2025

PARAMETER	UOM	LOR	BH01M	BH03M	BH08M	GWQD01	R01
			WATER - 7/7/2025 SE285800.001	WATER - 7/7/2025 SE285800.002	WATER - 7/7/2025 SE285800.003	WATER - 7/7/2025 SE285800.004	WATER - 7/7/2025 SE285800.005
TRH C10-C14	µg/L	50	87	<50	<50	87	<50
TRH C15-C28	µg/L	200	<200	<200	<200	240	<200
TRH C29-C36	µg/L	200	<200	<200	<200	270	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200	<200
TRH >C10-C16	µg/L	60	84	<60	<60	94	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	84	<60	<60	94	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500	<500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500	<500
TRH C10-C40	µg/L	320	420	<320	<320	700	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 8/7/2025

PARAMETER	UOM	LOR	BH01M	BH03M	BH08M
			WATER - 7/7/2025 SE285800.001	WATER - 7/7/2025 SE285800.002	WATER - 7/7/2025 SE285800.003
Naphthalene	µg/L	0.1	0.3	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	0.3	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	0.4	<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	<1

Total Phenolics in Water [AN295] Tested: 8/7/2025

PARAMETER	UOM	LOR	BH01M	BH03M	BH08M
			WATER - 7/7/2025 SE285800.001	WATER - 7/7/2025 SE285800.002	WATER - 7/7/2025 SE285800.003
Total Phenols	mg/L	0.05	<0.05	<0.05	<0.05

Total Cyanide in water by Discrete Analyser [AN077/AN287] Tested: 8/7/2025

PARAMETER	UOM	LOR	BH01M	BH03M	BH08M
			WATER - 7/7/2025 SE285800.001	WATER - 7/7/2025 SE285800.002	WATER - 7/7/2025 SE285800.003
Total Cyanide	mg/L	0.004	<0.004	<0.004	<0.004

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 9/7/2025

PARAMETER	UOM	LOR	BH01M	BH03M	BH08M	GWQD01	R01
			WATER - 7/7/2025 SE285800.001	WATER - 7/7/2025 SE285800.002	WATER - 7/7/2025 SE285800.003	WATER - 7/7/2025 SE285800.004	WATER - 7/7/2025 SE285800.005
Arsenic	µg/L	1	2	2	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	2	6	<1	<1
Lead	µg/L	1	<1	<1	<1	<1	<1
Nickel	µg/L	1	5	24	18	4	<1
Zinc	µg/L	5	<5	39	73	<5	<5

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 10/7/2025

PARAMETER	UOM	LOR	BH01M	BH03M	BH08M	GWQD01	R01
			WATER - 7/7/2025 SE285800.001	WATER - 7/7/2025 SE285800.002	WATER - 7/7/2025 SE285800.003	WATER - 7/7/2025 SE285800.004	WATER - 7/7/2025 SE285800.005
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples [AN404] Tested: 8/7/2025

PARAMETER	UOM	LOR	BH01M	BH03M	BH08M
			WATER - 7/7/2025 SE285800.001	WATER - 7/7/2025 SE285800.002	WATER - 7/7/2025 SE285800.003
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	<0.05
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.02	<0.01	<0.01
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.01	<0.01	<0.01
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluoropropane sulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluorononane sulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	<0.01
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01	<0.01	<0.01
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	µg/L	0.01	<0.01	<0.01	<0.01
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01	<0.01	<0.01
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2)	µg/L	0.01	<0.01	<0.01	<0.01
Sum of PFOS and PFHxS	µg/L	0.01	<0.01	<0.01	<0.01
Sum of enHealth PFAS (PFHxS+PFOS+PFOA)	µg/L	0.01	<0.01	<0.01	<0.01
Sum of US EPA PFAS (PFOS+PFOA)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	<0.01
Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	<0.01	<0.01	<0.01
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01	<0.01	<0.01
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	µg/L	0.01	<0.01	<0.01	<0.01
N-Methylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05	<0.05	<0.05
N-Ethylperfluorooctanesulfonamidoacetic acid	µg/L	0.05	<0.05	<0.05	<0.05
2-(N-Ethylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05	<0.05	<0.05
2-(N-Methylperfluorooctane sulfonamido)-ethanol	µg/L	0.05	<0.05	<0.05	<0.05
Sum of PFAS A	µg/L	0.01	0.01	<0.01	<0.01
Sum of PFAS B	µg/L	0.01	<0.01	<0.01	<0.01
Sum of PFAS C	µg/L	0.01	0.02	<0.01	<0.01
Sum of Positive PFAS	µg/L	0.01	0.04	<0.01	<0.01

METHOD

METHODOLOGY SUMMARY

- AN020** Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
- AN077** Hydrogen cyanide is liberated from an acidified sample by distillation and purging with air. The hydrogen cyanide gas is then collected by passing it through a sodium hydroxide scrubbing solution. The scrubbing solution will then be analysed for cyanide by the appropriate method.
- AN287** A buffered distillate or water sample is treated with chloramine/barbituric acid reagents and the intensity of the colour developed is proportional to the cyanide concentration by DA.
- 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-pyrazolin-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).
- 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 Recoverable 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 .
- 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.

FOOTNOTES

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

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: www.sgs.com.au/en-gb/environment-health-and-safety.

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CERTIFICATE OF ANALYSIS 385353

Client Details

Client	El Australia
Attention	Amber Huang
Address	Suite 6.01, 55 Miller Street, Pyrmont, NSW, 2009

Sample Details

Your Reference	<u>E26536, 93-107 Cecil Avenue & 9-10 Roger Avenue</u>
Number of Samples	1 Water
Date samples received	08/07/2025
Date completed instructions received	08/07/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
 Samples were analysed as received from the client. Results relate specifically to the samples as received.
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	11/07/2025
Date of Issue	10/07/2025
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

Jack Wallis, Senior Chemist
 Loren Bardwell, Development Chemist
 Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water		
Our Reference		385353-1
Your Reference	UNITS	GWQT1
Date Sampled		07/07/2025
Type of sample		Water
Date extracted	-	09/07/2025
Date analysed	-	10/07/2025
TRH C ₆ - C ₉	µg/L	18
TRH C ₆ - C ₁₀	µg/L	32
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	31
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	%	86
Surrogate Toluene-d8	%	102
Surrogate 4-Bromofluorobenzene	%	99

svTRH (C10-C40) in Water		
Our Reference		385353-1
Your Reference	UNITS	GWQT1
Date Sampled		07/07/2025
Type of sample		Water
Date extracted	-	09/07/2025
Date analysed	-	09/07/2025
TRH C ₁₀ - C ₁₄	µg/L	110
TRH C ₁₅ - C ₂₈	µg/L	100
TRH C ₂₉ - C ₃₆	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	210
TRH >C ₁₀ - C ₁₆	µg/L	120
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	µg/L	120
TRH >C ₁₆ - C ₃₄	µg/L	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	120
Surrogate o-Terphenyl	%	90

HM in water - dissolved		
Our Reference		385353-1
Your Reference	UNITS	GWQT1
Date Sampled		07/07/2025
Type of sample		Water
Date prepared	-	09/07/2025
Date analysed	-	09/07/2025
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	5
Zinc-Dissolved	µg/L	1

Method ID	Methodology Summary
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	<p>Determination of various metals by ICP-MS.</p> <p>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.</p> <p>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.</p>
Org-020	<p>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.</p>
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	<p>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.</p>

Client Reference: E26536, 93-107 Cecil Avenue & 9-10 Roger Avenue

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	-			09/07/2025	[NT]	[NT]	[NT]	[NT]	09/07/2025	[NT]
Date analysed	-			10/07/2025	[NT]	[NT]	[NT]	[NT]	10/07/2025	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	101	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	101	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	103	[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]	105	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	87	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate Toluene-d8	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	104	[NT]

Client Reference: E26536, 93-107 Cecil Avenue & 9-10 Roger Avenue

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			09/07/2025	[NT]	[NT]	[NT]	[NT]	09/07/2025	[NT]
Date analysed	-			09/07/2025	[NT]	[NT]	[NT]	[NT]	09/07/2025	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	113	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	113	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	88	[NT]	[NT]	[NT]	[NT]	135	[NT]

Client Reference: E26536, 93-107 Cecil Avenue & 9-10 Roger Avenue

QUALITY CONTROL: HM in water - dissolved				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W9	[NT]
Date prepared	-			09/07/2025	[NT]	[NT]	[NT]	[NT]	09/07/2025	[NT]
Date analysed	-			09/07/2025	[NT]	[NT]	[NT]	[NT]	09/07/2025	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	91	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	104	[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.

Appendix H – QA/QC Assessment

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 auger flights / bucket. Soil samples were placed in 250 gram glass jars and plastic bags, which were filled to minimise headspace, and sealed using Teflon-coated lids. Groundwater samples were obtained using sample bottles/vials provided by the laboratory. PFAS groundwater samples were placed in dedicated Teflon free bottles 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
Equipment Decontamination	Sampling equipment to be decontaminated after the collection of each soil sample by washing with phosphate-free detergent 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 Two rinsate samples were collected in total. One was collected during the soil investigation on 10 June 2025 and the other was collected during the groundwater monitoring event on 7 July 2025. All results were reported as below the detection limits, except for copper (1 µg/L) in R01 during the soil investigation of 11 June 2025.
Transport	Samples stored in a chilled 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

Task	Description	Project
Trip Blanks	Trip blank samples were to be prepared and analysed by the primary laboratory for BTEX. Analytical results to be below the laboratory LOR, indicating satisfactory 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. All results were reported below the laboratory LOR, indicating that ideal sample transport and handling conditions were achieved (i.e. no cross-contamination of volatiles during sample transport and subsequent handling).
Trip Spikes	Trip spike samples were to be prepared and analysed by the primary laboratory for BTEX. Analytical results to be within 80-120% recovery, indicating satisfactory sample transport and handling conditions were achieved.	Two trip spike samples prepared by the primary laboratory were analysed for BTEX during soil and groundwater testing. All results were within the recovery acceptance levels, indicating that satisfactory sample transport and handling conditions were achieved (i.e. no loss of volatiles during sample transport and subsequent handling).
Duplicates	<p>Field duplicate samples were to be analysed as follows (as per NEPM):</p> <ul style="list-style-type: none"> ▪ intra-laboratory duplicates at a rate of 1 in 20 primary samples; and ▪ inter-laboratory duplicates at a rate of 1 in 20 primary samples. <p>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:</p> <ul style="list-style-type: none"> ▪ 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. <p>Non-compliance is to be documented in the report and the sample re-analysed or a higher level conservatively adopted.</p>	<p>The required sampling density of 1 per 20 duplicated primary samples was achieved and sufficient for the investigation.</p> <p>Laboratory duplicates prepared and analysed.</p> <p>Minor non-conformance, with negligible effects on data use for interpretative purposes.</p> <p>Field QC samples and calculated RPD values are presented in Table 3, Appendix B.</p> <p>Copies of laboratory reports are included in Appendix G.</p>
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 I.
	Appropriate detection limits were used for the analyses to be undertaken.	Practical Quantitation Limits for all tested parameters during the DSI are presented in laboratory analytical reports in Appendix G.
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.	All samples were analysed within the holding times.

Task	Description	Project
Method Blanks	A method blank contains 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.	Yes
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. All data quality objectives were met.
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 standard has been undertaken by the laboratory. All laboratory control standards were within acceptable ranges.
Matrix Spikes	Matrix 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 data quality objectives were met.
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. All data quality objectives were met.
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.

Calculation of Relative Percentage Difference (RPD)

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.

Field QA/QC

Field QC Samples

The field (intra- / inter- laboratory) duplicate samples collected during the investigation are summarised in **Table I-2**. Inter-laboratory 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	BH10_0.1-0.2	QD01	QT01	2
	BH11_0.1-0.2	QD02	QT02	2
	BH22_0.1-0.2	QD03	QT03	2
Groundwater	BH01M	GWQD01	GWQT01	2

Field QC Summary

Review of the field data quality indicators is presented in **Table I-3** below.

Table I-3 Field Data Quality Indicators

QA Component	Data Quality Indicator(s)	Conformance
Accuracy – a quantitative measure of the closeness of reported data to the “true” value	SOPs appropriate and complied with	Yes
	Results for inter-laboratory (split field) duplicates acceptable	Yes
Precision – A quantitative measure of the variability (or reproducibility) of data	SOPs appropriate and complied with	Yes
	Results for intra-laboratory (blind field) duplicates acceptable	Yes
Completeness – A measure of the amount of useable data from a data collection activity	Each critical location sampled	Yes
	Samples collected at targeted locations and depth	Yes
	SAQP appropriate and complied with	Yes
	Experienced sampler	Yes
	Field documentation correct	Yes
Comparability – The	Same sampling method used on each occasion/location	Yes

QA Component	Data Quality Indicator(s)	Conformance
	Experienced sampler	Yes
	Same type of samples collected (filtered, size, fractions)	Yes
Representativeness – The confidence (expressed qualitatively) that data are representative of each medium present onsite	Appropriate media sampled according to SAQP	Yes
	Each media identified in SAQP sampled	Yes
	Appropriate sample collection methodologies, handling, storage and preservation techniques used	Yes

Conclusion for the Field QA/QC

All field work, including equipment decontamination and sample preservation and transport, was conducted in accordance with the SAQP, which were devised with reference to industry-approved guidelines. Appropriate QC measures were integrated into each sampling event and the DQIs were met.

All samples, including field QC samples, were transported to the primary and secondary laboratories under refrigerated 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. EI considered the field QA/QC program carried out during the DSI to be appropriate.

Laboratory QA/QC

Laboratory Accreditation

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.

Laboratory QC Summary

Review of the laboratory data quality indicators is presented in **Table I-4** below.

Table I-4 Laboratory Data Quality Indicators

QA/QC Measure	Data Quality Indicator(s)	Conformance
Accuracy – A quantitative measure of the closeness of reported data to the “true” value	Analysis of method blanks	Yes
	Analysis of matrix spikes	Yes
	Analysis of surrogate spikes	Yes
	Analysis of laboratory control samples	Yes
Precision – A quantitative measure of the variability (or reproducibility) of data	Analysis of laboratory duplicates	Yes
Completeness – A measure of the amount of useable data from a data collection activity	All critical samples analysed according to SAQP	Yes
	All analytes analysed according to SAQP	Yes
	Appropriate methods and LORs	Yes
	Sample documentation complete	Yes

QA/QC Measure	Data Quality Indicator(s)	Conformance
	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	Same analytical methods used (including clean-up)	Yes
	Same LORs	Yes
	Same laboratories (NATA-accredited)	Yes
	Same units	Yes
Representativeness – The confidence (expressed qualitatively) that data are representative of each medium present onsite	All key samples analysed according to SAQP	Yes
	Analysis of laboratory-prepared trip spikes and blanks	Yes

Conclusion 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 DQIs 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.

Summary of Project QA/QC

The sampling (including sample preservation, transport and decontamination procedures) and laboratory methods followed during this investigation were consistent with EI protocols. The project DQOs specified in **Section 5.2, Table 5-1** were considered to have been achieved. The adopted QA/QC program provides confidence that the data collated during the DSI were accurate, precise and representative of the site condition. It is therefore considered that the data is sufficiently precise and accurate and that the results could be used for DSI interpretative purposes.

Appendix I – Laboratory QA/QC and DQOs

CLIENT DETAILS

LABORATORY DETAILS

<p>Contact Sharon Li Client EI AUSTRALIA Address SUITE 6.01 55 MILLER STREET PYRMONT NSW 2009</p> <p>Telephone 0420 225 205 Facsimile (Not specified) Email sharon.li@eiaustralia.com.au</p> <p>Project E26536 93-107 Cecil Avenue & 9-10 Roger Order Number E26536 Samples 32</p>	<p>Manager Shane McDermott Laboratory SGS Alexandria Environmental Address Unit 16, 33 Maddox St Alexandria NSW 2015</p> <p>Telephone +61 2 8594 0400 Facsimile +61 2 8594 0499 Email au.environmental.sydney@sgs.com</p> <p>SGS Reference SE284537 R0 Date Received 12 Jun 2025 Date Reported 19 Jun 2025</p>
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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:

Surrogate	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	7 items
Matrix Spike	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item

SAMPLE SUMMARY

Sample counts by matrix	31 Soil, 1 Water	Type of documentation received	COC
Date documentation received	12/6/2025	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	3.2°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice	Samples clearly labelled	Yes
Complete documentation received	Yes		

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
BH11_0.1-0.2	SE284537.001	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH12_0.1-0.2	SE284537.003	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH23_0.1-0.2	SE284537.004	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH24_0.1-0.2	SE284537.006	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH19_0.2-0.3	SE284537.007	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH13_0.2-0.3	SE284537.009	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH27_0.0-0.1	SE284537.010	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH25_0.1-0.2	SE284537.012	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH26_0.0-0.1	SE284537.013	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH02_0.1-0.2	SE284537.014	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH18_0.1-0.2	SE284537.016	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH10_0.1-0.2	SE284537.017	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH16_0.2-0.3	SE284537.019	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH17_0.1-0.2	SE284537.020	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH20_0.1-0.2	SE284537.022	LB351240	10 Jun 2025	12 Jun 2025	10 Jun 2026	17 Jun 2025	10 Jun 2026	19 Jun 2025
BH22_0.1-0.2	SE284537.023	LB351240	11 Jun 2025	12 Jun 2025	11 Jun 2026	17 Jun 2025	11 Jun 2026	19 Jun 2025
BH21_0.1-0.2	SE284537.024	LB351240	11 Jun 2025	12 Jun 2025	11 Jun 2026	17 Jun 2025	11 Jun 2026	19 Jun 2025
BH15_0.1-0.2	SE284537.025	LB351240	11 Jun 2025	12 Jun 2025	11 Jun 2026	17 Jun 2025	11 Jun 2026	19 Jun 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
R01	SE284537.030	LB351153	11 Jun 2025	12 Jun 2025	09 Jul 2025	17 Jun 2025	09 Jul 2025	18 Jun 2025

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11_0.1-0.2	SE284537.001	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH11_0.6-0.7	SE284537.002	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH12_0.1-0.2	SE284537.003	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH23_0.1-0.2	SE284537.004	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH23_0.5-0.6	SE284537.005	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH24_0.1-0.2	SE284537.006	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH19_0.2-0.3	SE284537.007	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH19_0.6-0.7	SE284537.008	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH13_0.2-0.3	SE284537.009	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH27_0.0-0.1	SE284537.010	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH27_0.4-0.5	SE284537.011	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH25_0.1-0.2	SE284537.012	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH26_0.0-0.1	SE284537.013	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH02_0.1-0.2	SE284537.014	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH02_0.4-0.5	SE284537.015	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH18_0.1-0.2	SE284537.016	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH10_0.1-0.2	SE284537.017	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH10_0.7-0.8	SE284537.018	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH16_0.2-0.3	SE284537.019	LB350974	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	19 Jun 2025
BH17_0.1-0.2	SE284537.020	LB350975	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	18 Jun 2025
BH17_0.6-0.7	SE284537.021	LB350975	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	18 Jun 2025
BH20_0.1-0.2	SE284537.022	LB350975	10 Jun 2025	12 Jun 2025	08 Jul 2025	16 Jun 2025	08 Jul 2025	18 Jun 2025
BH22_0.1-0.2	SE284537.023	LB350975	11 Jun 2025	12 Jun 2025	09 Jul 2025	16 Jun 2025	09 Jul 2025	18 Jun 2025
BH21_0.1-0.2	SE284537.024	LB350975	11 Jun 2025	12 Jun 2025	09 Jul 2025	16 Jun 2025	09 Jul 2025	18 Jun 2025
BH15_0.1-0.2	SE284537.025	LB350975	11 Jun 2025	12 Jun 2025	09 Jul 2025	16 Jun 2025	09 Jul 2025	18 Jun 2025
BH15_0.5-0.6	SE284537.026	LB350975	11 Jun 2025	12 Jun 2025	09 Jul 2025	16 Jun 2025	09 Jul 2025	18 Jun 2025
QD01	SE284537.027	LB350975	11 Jun 2025	12 Jun 2025	09 Jul 2025	16 Jun 2025	09 Jul 2025	18 Jun 2025
QD02	SE284537.028	LB350975	11 Jun 2025	12 Jun 2025	09 Jul 2025	16 Jun 2025	09 Jul 2025	18 Jun 2025
QD03	SE284537.029	LB350975	11 Jun 2025	12 Jun 2025	09 Jul 2025	16 Jun 2025	09 Jul 2025	18 Jun 2025

Moisture Content

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11_0.1-0.2	SE284537.001	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH11_0.6-0.7	SE284537.002	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH12_0.1-0.2	SE284537.003	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025

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

Moisture Content (continued)

Method: ME-(AU)-ENVJAN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH23_0.1-0.2	SE284537.004	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH23_0.5-0.6	SE284537.005	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH24_0.1-0.2	SE284537.006	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH19_0.2-0.3	SE284537.007	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH19_0.6-0.7	SE284537.008	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH13_0.2-0.3	SE284537.009	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH27_0.0-0.1	SE284537.010	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH27_0.4-0.5	SE284537.011	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH25_0.1-0.2	SE284537.012	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH26_0.0-0.1	SE284537.013	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH02_0.1-0.2	SE284537.014	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH02_0.4-0.5	SE284537.015	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH18_0.1-0.2	SE284537.016	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH10_0.1-0.2	SE284537.017	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH10_0.7-0.8	SE284537.018	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH16_0.2-0.3	SE284537.019	LB350967	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH17_0.1-0.2	SE284537.020	LB350968	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH17_0.6-0.7	SE284537.021	LB350968	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH20_0.1-0.2	SE284537.022	LB350968	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH22_0.1-0.2	SE284537.023	LB350968	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH21_0.1-0.2	SE284537.024	LB350968	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH15_0.1-0.2	SE284537.025	LB350968	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
BH15_0.5-0.6	SE284537.026	LB350968	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
QD01	SE284537.027	LB350968	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
QD02	SE284537.028	LB350968	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
QD03	SE284537.029	LB350968	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025
TRIP BLANK	SE284537.031	LB350968	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	21 Jun 2025	17 Jun 2025

OC Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11_0.1-0.2	SE284537.001	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH11_0.6-0.7	SE284537.002	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH12_0.1-0.2	SE284537.003	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH23_0.1-0.2	SE284537.004	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH23_0.5-0.6	SE284537.005	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH24_0.1-0.2	SE284537.006	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH19_0.2-0.3	SE284537.007	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH19_0.6-0.7	SE284537.008	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH13_0.2-0.3	SE284537.009	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH27_0.0-0.1	SE284537.010	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH27_0.4-0.5	SE284537.011	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH25_0.1-0.2	SE284537.012	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH26_0.0-0.1	SE284537.013	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH02_0.1-0.2	SE284537.014	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH02_0.4-0.5	SE284537.015	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH18_0.1-0.2	SE284537.016	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH10_0.1-0.2	SE284537.017	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH10_0.7-0.8	SE284537.018	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH16_0.2-0.3	SE284537.019	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH17_0.1-0.2	SE284537.020	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH17_0.6-0.7	SE284537.021	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH20_0.1-0.2	SE284537.022	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH22_0.1-0.2	SE284537.023	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH21_0.1-0.2	SE284537.024	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH15_0.1-0.2	SE284537.025	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH15_0.5-0.6	SE284537.026	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
QD01	SE284537.027	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
QD02	SE284537.028	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
QD03	SE284537.029	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025

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

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11_0.1-0.2	SE284537.001	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH11_0.6-0.7	SE284537.002	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH12_0.1-0.2	SE284537.003	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH23_0.1-0.2	SE284537.004	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH23_0.5-0.6	SE284537.005	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH24_0.1-0.2	SE284537.006	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH19_0.2-0.3	SE284537.007	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH19_0.6-0.7	SE284537.008	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH13_0.2-0.3	SE284537.009	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH27_0.0-0.1	SE284537.010	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH27_0.4-0.5	SE284537.011	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH25_0.1-0.2	SE284537.012	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH26_0.0-0.1	SE284537.013	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH02_0.1-0.2	SE284537.014	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH02_0.4-0.5	SE284537.015	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH18_0.1-0.2	SE284537.016	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH10_0.1-0.2	SE284537.017	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH10_0.7-0.8	SE284537.018	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH16_0.2-0.3	SE284537.019	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH17_0.1-0.2	SE284537.020	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH17_0.6-0.7	SE284537.021	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH20_0.1-0.2	SE284537.022	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH22_0.1-0.2	SE284537.023	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH21_0.1-0.2	SE284537.024	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH15_0.1-0.2	SE284537.025	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH15_0.5-0.6	SE284537.026	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
QD01	SE284537.027	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
QD02	SE284537.028	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
QD03	SE284537.029	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11_0.1-0.2	SE284537.001	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH11_0.6-0.7	SE284537.002	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH12_0.1-0.2	SE284537.003	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH23_0.1-0.2	SE284537.004	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH23_0.5-0.6	SE284537.005	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH24_0.1-0.2	SE284537.006	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH19_0.2-0.3	SE284537.007	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH19_0.6-0.7	SE284537.008	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH13_0.2-0.3	SE284537.009	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH27_0.0-0.1	SE284537.010	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH27_0.4-0.5	SE284537.011	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH25_0.1-0.2	SE284537.012	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH26_0.0-0.1	SE284537.013	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH02_0.1-0.2	SE284537.014	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH02_0.4-0.5	SE284537.015	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH18_0.1-0.2	SE284537.016	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH10_0.1-0.2	SE284537.017	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH10_0.7-0.8	SE284537.018	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH16_0.2-0.3	SE284537.019	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH17_0.1-0.2	SE284537.020	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH17_0.6-0.7	SE284537.021	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH20_0.1-0.2	SE284537.022	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH22_0.1-0.2	SE284537.023	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH21_0.1-0.2	SE284537.024	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH15_0.1-0.2	SE284537.025	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH15_0.5-0.6	SE284537.026	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
QD01	SE284537.027	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
QD02	SE284537.028	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025

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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QD03	SE284537.029	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11_0.1-0.2	SE284537.001	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH11_0.6-0.7	SE284537.002	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH12_0.1-0.2	SE284537.003	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH23_0.1-0.2	SE284537.004	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH23_0.5-0.6	SE284537.005	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH24_0.1-0.2	SE284537.006	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH19_0.2-0.3	SE284537.007	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH19_0.6-0.7	SE284537.008	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH13_0.2-0.3	SE284537.009	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH27_0.0-0.1	SE284537.010	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH27_0.4-0.5	SE284537.011	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH25_0.1-0.2	SE284537.012	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH26_0.0-0.1	SE284537.013	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH02_0.1-0.2	SE284537.014	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH02_0.4-0.5	SE284537.015	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH18_0.1-0.2	SE284537.016	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH10_0.1-0.2	SE284537.017	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH10_0.7-0.8	SE284537.018	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH16_0.2-0.3	SE284537.019	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH17_0.1-0.2	SE284537.020	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH17_0.6-0.7	SE284537.021	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
BH20_0.1-0.2	SE284537.022	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH22_0.1-0.2	SE284537.023	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH21_0.1-0.2	SE284537.024	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH15_0.1-0.2	SE284537.025	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	18 Jun 2025
BH15_0.5-0.6	SE284537.026	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
QD01	SE284537.027	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
QD02	SE284537.028	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025
QD03	SE284537.029	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 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
BH11_0.1-0.2	SE284537.001	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH11_0.6-0.7	SE284537.002	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH12_0.1-0.2	SE284537.003	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH23_0.1-0.2	SE284537.004	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH23_0.5-0.6	SE284537.005	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH24_0.1-0.2	SE284537.006	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH19_0.2-0.3	SE284537.007	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH19_0.6-0.7	SE284537.008	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH13_0.2-0.3	SE284537.009	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH27_0.0-0.1	SE284537.010	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH27_0.4-0.5	SE284537.011	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH25_0.1-0.2	SE284537.012	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH26_0.0-0.1	SE284537.013	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH02_0.1-0.2	SE284537.014	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH02_0.4-0.5	SE284537.015	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH18_0.1-0.2	SE284537.016	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH10_0.1-0.2	SE284537.017	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH10_0.7-0.8	SE284537.018	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH16_0.2-0.3	SE284537.019	LB350970	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH17_0.1-0.2	SE284537.020	LB350971	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH17_0.6-0.7	SE284537.021	LB350971	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH20_0.1-0.2	SE284537.022	LB350971	10 Jun 2025	12 Jun 2025	07 Dec 2025	16 Jun 2025	07 Dec 2025	18 Jun 2025
BH22_0.1-0.2	SE284537.023	LB350971	11 Jun 2025	12 Jun 2025	08 Dec 2025	16 Jun 2025	08 Dec 2025	18 Jun 2025
BH21_0.1-0.2	SE284537.024	LB350971	11 Jun 2025	12 Jun 2025	08 Dec 2025	16 Jun 2025	08 Dec 2025	18 Jun 2025
BH15_0.1-0.2	SE284537.025	LB350971	11 Jun 2025	12 Jun 2025	08 Dec 2025	16 Jun 2025	08 Dec 2025	18 Jun 2025

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 Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11_0.1-0.6	SE284537.026	LB350971	11 Jun 2025	12 Jun 2025	08 Dec 2025	16 Jun 2025	08 Dec 2025	18 Jun 2025
QD01	SE284537.027	LB350971	11 Jun 2025	12 Jun 2025	08 Dec 2025	16 Jun 2025	08 Dec 2025	18 Jun 2025
QD02	SE284537.028	LB350971	11 Jun 2025	12 Jun 2025	08 Dec 2025	16 Jun 2025	08 Dec 2025	18 Jun 2025
QD03	SE284537.029	LB350971	11 Jun 2025	12 Jun 2025	08 Dec 2025	16 Jun 2025	08 Dec 2025	18 Jun 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
R01	SE284537.030	LB351424	11 Jun 2025	12 Jun 2025	08 Dec 2025	18 Jun 2025	08 Dec 2025	19 Jun 2025

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
BH11_0.1-0.2	SE284537.001	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH11_0.6-0.7	SE284537.002	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH12_0.1-0.2	SE284537.003	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH23_0.1-0.2	SE284537.004	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH23_0.5-0.6	SE284537.005	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH24_0.1-0.2	SE284537.006	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH19_0.2-0.3	SE284537.007	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH19_0.6-0.7	SE284537.008	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH13_0.2-0.3	SE284537.009	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH27_0.0-0.1	SE284537.010	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH27_0.4-0.5	SE284537.011	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH25_0.1-0.2	SE284537.012	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH26_0.0-0.1	SE284537.013	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH02_0.1-0.2	SE284537.014	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH02_0.4-0.5	SE284537.015	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH18_0.1-0.2	SE284537.016	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH10_0.1-0.2	SE284537.017	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH10_0.7-0.8	SE284537.018	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH16_0.2-0.3	SE284537.019	LB350944	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH17_0.1-0.2	SE284537.020	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH17_0.6-0.7	SE284537.021	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH20_0.1-0.2	SE284537.022	LB350945	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH22_0.1-0.2	SE284537.023	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH21_0.1-0.2	SE284537.024	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH15_0.1-0.2	SE284537.025	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
BH15_0.5-0.6	SE284537.026	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
QD01	SE284537.027	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
QD02	SE284537.028	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 2025
QD03	SE284537.029	LB350945	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	26 Jul 2025	17 Jun 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
R01	SE284537.030	LB350948	11 Jun 2025	12 Jun 2025	18 Jun 2025	16 Jun 2025	26 Jul 2025	19 Jun 2025

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11_0.1-0.2	SE284537.001	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH11_0.6-0.7	SE284537.002	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH12_0.1-0.2	SE284537.003	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH23_0.1-0.2	SE284537.004	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH23_0.5-0.6	SE284537.005	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH24_0.1-0.2	SE284537.006	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH19_0.2-0.3	SE284537.007	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH19_0.6-0.7	SE284537.008	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH13_0.2-0.3	SE284537.009	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH27_0.0-0.1	SE284537.010	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH27_0.4-0.5	SE284537.011	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH25_0.1-0.2	SE284537.012	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH26_0.0-0.1	SE284537.013	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025

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

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH02_0.1-0.2	SE284537.014	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH02_0.4-0.5	SE284537.015	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH18_0.1-0.2	SE284537.016	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH10_0.1-0.2	SE284537.017	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH10_0.7-0.8	SE284537.018	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH16_0.2-0.3	SE284537.019	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH17_0.1-0.2	SE284537.020	LB350966	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH17_0.6-0.7	SE284537.021	LB350966	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH20_0.1-0.2	SE284537.022	LB350966	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH22_0.1-0.2	SE284537.023	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
BH21_0.1-0.2	SE284537.024	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
BH15_0.1-0.2	SE284537.025	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
BH15_0.5-0.6	SE284537.026	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
QD01	SE284537.027	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
QD02	SE284537.028	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
QD03	SE284537.029	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
TRIP BLANK	SE284537.031	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
TRIP SPIKE	SE284537.032	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
R01	SE284537.030	LB350849	11 Jun 2025	12 Jun 2025	25 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 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
BH11_0.1-0.2	SE284537.001	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH11_0.6-0.7	SE284537.002	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH12_0.1-0.2	SE284537.003	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH23_0.1-0.2	SE284537.004	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH23_0.5-0.6	SE284537.005	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH24_0.1-0.2	SE284537.006	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH19_0.2-0.3	SE284537.007	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH19_0.6-0.7	SE284537.008	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH13_0.2-0.3	SE284537.009	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH27_0.0-0.1	SE284537.010	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH27_0.4-0.5	SE284537.011	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH25_0.1-0.2	SE284537.012	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH26_0.0-0.1	SE284537.013	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH02_0.1-0.2	SE284537.014	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH02_0.4-0.5	SE284537.015	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH18_0.1-0.2	SE284537.016	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH10_0.1-0.2	SE284537.017	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH10_0.7-0.8	SE284537.018	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH16_0.2-0.3	SE284537.019	LB350965	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH17_0.1-0.2	SE284537.020	LB350966	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH17_0.6-0.7	SE284537.021	LB350966	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH20_0.1-0.2	SE284537.022	LB350966	10 Jun 2025	12 Jun 2025	24 Jun 2025	16 Jun 2025	24 Jun 2025	18 Jun 2025
BH22_0.1-0.2	SE284537.023	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
BH21_0.1-0.2	SE284537.024	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
BH15_0.1-0.2	SE284537.025	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
BH15_0.5-0.6	SE284537.026	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
QD01	SE284537.027	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
QD02	SE284537.028	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
QD03	SE284537.029	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
TRIP BLANK	SE284537.031	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025
TRIP SPIKE	SE284537.032	LB350966	11 Jun 2025	12 Jun 2025	25 Jun 2025	16 Jun 2025	25 Jun 2025	18 Jun 2025

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref
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HOLDING TIME SUMMARY

SE284537 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

Volatile Petroleum Hydrocarbons in Water (continued)

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
R01	SE284537.030	LB350849	11 Jun 2025	12 Jun 2025	25 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 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 identifier 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)	BH11_0.1-0.2	SE284537.001	%	60 - 130%	94
	BH12_0.1-0.2	SE284537.003	%	60 - 130%	88
	BH23_0.1-0.2	SE284537.004	%	60 - 130%	87
	BH24_0.1-0.2	SE284537.006	%	60 - 130%	86
	BH19_0.2-0.3	SE284537.007	%	60 - 130%	81
	BH13_0.2-0.3	SE284537.009	%	60 - 130%	85
	BH27_0.0-0.1	SE284537.010	%	60 - 130%	86
	BH25_0.1-0.2	SE284537.012	%	60 - 130%	87
	BH26_0.0-0.1	SE284537.013	%	60 - 130%	85
	BH02_0.1-0.2	SE284537.014	%	60 - 130%	88
	BH18_0.1-0.2	SE284537.016	%	60 - 130%	94
	BH10_0.1-0.2	SE284537.017	%	60 - 130%	91
	BH16_0.2-0.3	SE284537.019	%	60 - 130%	91
	BH17_0.1-0.2	SE284537.020	%	60 - 130%	95
	BH20_0.1-0.2	SE284537.022	%	60 - 130%	95
	BH22_0.1-0.2	SE284537.023	%	60 - 130%	93
	BH21_0.1-0.2	SE284537.024	%	60 - 130%	96
	BH15_0.1-0.2	SE284537.025	%	60 - 130%	95

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %	
2-fluorobiphenyl (Surrogate)	BH11_0.1-0.2	SE284537.001	%	60 - 130%	99	
	BH12_0.1-0.2	SE284537.003	%	60 - 130%	72	
	BH23_0.1-0.2	SE284537.004	%	60 - 130%	71	
	BH24_0.1-0.2	SE284537.006	%	60 - 130%	71	
	BH19_0.2-0.3	SE284537.007	%	60 - 130%	71	
	BH13_0.2-0.3	SE284537.009	%	60 - 130%	71	
	BH27_0.0-0.1	SE284537.010	%	60 - 130%	76	
	BH25_0.1-0.2	SE284537.012	%	60 - 130%	71	
	BH26_0.0-0.1	SE284537.013	%	60 - 130%	70	
	BH02_0.1-0.2	SE284537.014	%	60 - 130%	74	
	BH18_0.1-0.2	SE284537.016	%	60 - 130%	100	
	BH10_0.1-0.2	SE284537.017	%	60 - 130%	98	
	BH16_0.2-0.3	SE284537.019	%	60 - 130%	100	
	BH17_0.1-0.2	SE284537.020	%	60 - 130%	99	
	BH20_0.1-0.2	SE284537.022	%	60 - 130%	99	
	BH22_0.1-0.2	SE284537.023	%	60 - 130%	97	
	BH21_0.1-0.2	SE284537.024	%	60 - 130%	98	
	BH15_0.1-0.2	SE284537.025	%	60 - 130%	99	
	d14-p-terphenyl (Surrogate)	BH11_0.1-0.2	SE284537.001	%	60 - 130%	98
		BH12_0.1-0.2	SE284537.003	%	60 - 130%	93
BH23_0.1-0.2		SE284537.004	%	60 - 130%	92	
BH24_0.1-0.2		SE284537.006	%	60 - 130%	91	
BH19_0.2-0.3		SE284537.007	%	60 - 130%	86	
BH13_0.2-0.3		SE284537.009	%	60 - 130%	87	
BH27_0.0-0.1		SE284537.010	%	60 - 130%	90	
BH25_0.1-0.2		SE284537.012	%	60 - 130%	87	
BH26_0.0-0.1		SE284537.013	%	60 - 130%	86	
BH02_0.1-0.2		SE284537.014	%	60 - 130%	88	
BH18_0.1-0.2		SE284537.016	%	60 - 130%	96	
BH10_0.1-0.2		SE284537.017	%	60 - 130%	92	
BH16_0.2-0.3		SE284537.019	%	60 - 130%	98	
BH17_0.1-0.2		SE284537.020	%	60 - 130%	95	
BH20_0.1-0.2		SE284537.022	%	60 - 130%	97	
BH22_0.1-0.2		SE284537.023	%	60 - 130%	92	
BH21_0.1-0.2		SE284537.024	%	60 - 130%	96	
BH15_0.1-0.2		SE284537.025	%	60 - 130%	95	

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units
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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 identifier 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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH11_0.1-0.2	SE284537.001	%	70 - 130%	99
	BH11_0.6-0.7	SE284537.002	%	70 - 130%	97
	BH12_0.1-0.2	SE284537.003	%	70 - 130%	72
	BH23_0.1-0.2	SE284537.004	%	70 - 130%	71
	BH23_0.5-0.6	SE284537.005	%	70 - 130%	70
	BH24_0.1-0.2	SE284537.006	%	70 - 130%	71
	BH19_0.2-0.3	SE284537.007	%	70 - 130%	71
	BH19_0.6-0.7	SE284537.008	%	70 - 130%	74
	BH13_0.2-0.3	SE284537.009	%	70 - 130%	71
	BH27_0.0-0.1	SE284537.010	%	70 - 130%	76
	BH27_0.4-0.5	SE284537.011	%	70 - 130%	91
	BH25_0.1-0.2	SE284537.012	%	70 - 130%	71
	BH26_0.0-0.1	SE284537.013	%	70 - 130%	70
	BH02_0.1-0.2	SE284537.014	%	70 - 130%	74
	BH02_0.4-0.5	SE284537.015	%	70 - 130%	68
	BH18_0.1-0.2	SE284537.016	%	70 - 130%	100
	BH10_0.1-0.2	SE284537.017	%	70 - 130%	98
	BH10_0.7-0.8	SE284537.018	%	70 - 130%	98
	BH16_0.2-0.3	SE284537.019	%	70 - 130%	100
	BH17_0.1-0.2	SE284537.020	%	70 - 130%	99
	BH17_0.6-0.7	SE284537.021	%	70 - 130%	97
	BH20_0.1-0.2	SE284537.022	%	70 - 130%	99
	BH22_0.1-0.2	SE284537.023	%	70 - 130%	97
	BH21_0.1-0.2	SE284537.024	%	70 - 130%	98
	BH15_0.1-0.2	SE284537.025	%	70 - 130%	99
	BH15_0.5-0.6	SE284537.026	%	70 - 130%	95
d14-p-terphenyl (Surrogate)	BH11_0.1-0.2	SE284537.001	%	70 - 130%	98
	BH11_0.6-0.7	SE284537.002	%	70 - 130%	97
	BH12_0.1-0.2	SE284537.003	%	70 - 130%	93
	BH23_0.1-0.2	SE284537.004	%	70 - 130%	92
	BH23_0.5-0.6	SE284537.005	%	70 - 130%	94
	BH24_0.1-0.2	SE284537.006	%	70 - 130%	91
	BH19_0.2-0.3	SE284537.007	%	70 - 130%	86
	BH19_0.6-0.7	SE284537.008	%	70 - 130%	88
	BH13_0.2-0.3	SE284537.009	%	70 - 130%	87
	BH27_0.0-0.1	SE284537.010	%	70 - 130%	90
	BH27_0.4-0.5	SE284537.011	%	70 - 130%	107
	BH25_0.1-0.2	SE284537.012	%	70 - 130%	87
	BH26_0.0-0.1	SE284537.013	%	70 - 130%	86
	BH02_0.1-0.2	SE284537.014	%	70 - 130%	88
	BH02_0.4-0.5	SE284537.015	%	70 - 130%	81
	BH18_0.1-0.2	SE284537.016	%	70 - 130%	96
	BH10_0.1-0.2	SE284537.017	%	70 - 130%	92
	BH10_0.7-0.8	SE284537.018	%	70 - 130%	95
	BH16_0.2-0.3	SE284537.019	%	70 - 130%	98
	BH17_0.1-0.2	SE284537.020	%	70 - 130%	95
	BH17_0.6-0.7	SE284537.021	%	70 - 130%	94
	BH20_0.1-0.2	SE284537.022	%	70 - 130%	97
	BH22_0.1-0.2	SE284537.023	%	70 - 130%	92
	BH21_0.1-0.2	SE284537.024	%	70 - 130%	96
	BH15_0.1-0.2	SE284537.025	%	70 - 130%	95
	BH15_0.5-0.6	SE284537.026	%	70 - 130%	98
d5-nitrobenzene (Surrogate)	BH11_0.1-0.2	SE284537.001	%	70 - 130%	94
	BH11_0.6-0.7	SE284537.002	%	70 - 130%	89
	BH12_0.1-0.2	SE284537.003	%	70 - 130%	60
	BH23_0.1-0.2	SE284537.004	%	70 - 130%	59
	BH23_0.5-0.6	SE284537.005	%	70 - 130%	73
	BH24_0.1-0.2	SE284537.006	%	70 - 130%	55
	BH19_0.2-0.3	SE284537.007	%	70 - 130%	57
	BH19_0.6-0.7	SE284537.008	%	70 - 130%	72
	BH13_0.2-0.3	SE284537.009	%	70 - 130%	54

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 identifier 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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-nitrobenzene (Surrogate)	BH27_0.0-0.1	SE284537.010	%	70 - 130%	72
	BH27_0.4-0.5	SE284537.011	%	70 - 130%	115
	BH25_0.1-0.2	SE284537.012	%	70 - 130%	62 Ⓞ
	BH26_0.0-0.1	SE284537.013	%	70 - 130%	76
	BH02_0.1-0.2	SE284537.014	%	70 - 130%	77
	BH02_0.4-0.5	SE284537.015	%	70 - 130%	83
	BH18_0.1-0.2	SE284537.016	%	70 - 130%	112
	BH10_0.1-0.2	SE284537.017	%	70 - 130%	109
	BH10_0.7-0.8	SE284537.018	%	70 - 130%	108
	BH16_0.2-0.3	SE284537.019	%	70 - 130%	107
	BH17_0.1-0.2	SE284537.020	%	70 - 130%	89
	BH17_0.6-0.7	SE284537.021	%	70 - 130%	87
	BH20_0.1-0.2	SE284537.022	%	70 - 130%	86
	BH22_0.1-0.2	SE284537.023	%	70 - 130%	90
	BH21_0.1-0.2	SE284537.024	%	70 - 130%	90
	BH15_0.1-0.2	SE284537.025	%	70 - 130%	88
	BH15_0.5-0.6	SE284537.026	%	70 - 130%	86

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH11_0.1-0.2	SE284537.001	%	60 - 130%	94
	BH12_0.1-0.2	SE284537.003	%	60 - 130%	88
	BH23_0.1-0.2	SE284537.004	%	60 - 130%	87
	BH24_0.1-0.2	SE284537.006	%	60 - 130%	86
	BH19_0.2-0.3	SE284537.007	%	60 - 130%	81
	BH13_0.2-0.3	SE284537.009	%	60 - 130%	85
	BH27_0.0-0.1	SE284537.010	%	60 - 130%	86
	BH25_0.1-0.2	SE284537.012	%	60 - 130%	87
	BH26_0.0-0.1	SE284537.013	%	60 - 130%	85
	BH02_0.1-0.2	SE284537.014	%	60 - 130%	88
	BH18_0.1-0.2	SE284537.016	%	60 - 130%	94
	BH10_0.1-0.2	SE284537.017	%	60 - 130%	91
	BH16_0.2-0.3	SE284537.019	%	60 - 130%	91
	BH17_0.1-0.2	SE284537.020	%	60 - 130%	95
	BH20_0.1-0.2	SE284537.022	%	60 - 130%	95
	BH22_0.1-0.2	SE284537.023	%	60 - 130%	93
	BH21_0.1-0.2	SE284537.024	%	60 - 130%	96
	BH15_0.1-0.2	SE284537.025	%	60 - 130%	95

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH11_0.1-0.2	SE284537.001	%	60 - 130%	84
	BH11_0.6-0.7	SE284537.002	%	60 - 130%	86
	BH12_0.1-0.2	SE284537.003	%	60 - 130%	76
	BH23_0.1-0.2	SE284537.004	%	60 - 130%	75
	BH23_0.5-0.6	SE284537.005	%	60 - 130%	82
	BH24_0.1-0.2	SE284537.006	%	60 - 130%	76
	BH19_0.2-0.3	SE284537.007	%	60 - 130%	75
	BH19_0.6-0.7	SE284537.008	%	60 - 130%	83
	BH13_0.2-0.3	SE284537.009	%	60 - 130%	90
	BH27_0.0-0.1	SE284537.010	%	60 - 130%	79
	BH27_0.4-0.5	SE284537.011	%	60 - 130%	81
	BH25_0.1-0.2	SE284537.012	%	60 - 130%	80
	BH26_0.0-0.1	SE284537.013	%	60 - 130%	80
	BH02_0.1-0.2	SE284537.014	%	60 - 130%	79
	BH02_0.4-0.5	SE284537.015	%	60 - 130%	82
	BH18_0.1-0.2	SE284537.016	%	60 - 130%	81
	BH10_0.1-0.2	SE284537.017	%	60 - 130%	84
	BH10_0.7-0.8	SE284537.018	%	60 - 130%	83
	BH16_0.2-0.3	SE284537.019	%	60 - 130%	83
	BH17_0.1-0.2	SE284537.020	%	60 - 130%	85
	BH17_0.6-0.7	SE284537.021	%	60 - 130%	90

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 identifier 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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH20_0.1-0.2	SE284537.022	%	60 - 130%	84
	BH22_0.1-0.2	SE284537.023	%	60 - 130%	80
	BH21_0.1-0.2	SE284537.024	%	60 - 130%	89
	BH15_0.1-0.2	SE284537.025	%	60 - 130%	86
	BH15_0.5-0.6	SE284537.026	%	60 - 130%	83
	QD01	SE284537.027	%	60 - 130%	100
	QD02	SE284537.028	%	60 - 130%	88
	QD03	SE284537.029	%	60 - 130%	86
	TRIP BLANK	SE284537.031	%	60 - 130%	90
	TRIP SPIKE	SE284537.032	%	60 - 130%	77
d4-1,2-dichloroethane (Surrogate)	BH11_0.1-0.2	SE284537.001	%	60 - 130%	77
	BH11_0.6-0.7	SE284537.002	%	60 - 130%	78
	BH12_0.1-0.2	SE284537.003	%	60 - 130%	69
	BH23_0.1-0.2	SE284537.004	%	60 - 130%	68
	BH23_0.5-0.6	SE284537.005	%	60 - 130%	74
	BH24_0.1-0.2	SE284537.006	%	60 - 130%	69
	BH19_0.2-0.3	SE284537.007	%	60 - 130%	69
	BH19_0.6-0.7	SE284537.008	%	60 - 130%	77
	BH13_0.2-0.3	SE284537.009	%	60 - 130%	79
	BH27_0.0-0.1	SE284537.010	%	60 - 130%	72
	BH27_0.4-0.5	SE284537.011	%	60 - 130%	72
	BH25_0.1-0.2	SE284537.012	%	60 - 130%	74
	BH26_0.0-0.1	SE284537.013	%	60 - 130%	72
	BH02_0.1-0.2	SE284537.014	%	60 - 130%	71
	BH02_0.4-0.5	SE284537.015	%	60 - 130%	75
	BH18_0.1-0.2	SE284537.016	%	60 - 130%	70
	BH10_0.1-0.2	SE284537.017	%	60 - 130%	75
	BH10_0.7-0.8	SE284537.018	%	60 - 130%	72
	BH16_0.2-0.3	SE284537.019	%	60 - 130%	73
	BH17_0.1-0.2	SE284537.020	%	60 - 130%	78
	BH17_0.6-0.7	SE284537.021	%	60 - 130%	80
	BH20_0.1-0.2	SE284537.022	%	60 - 130%	79
	BH22_0.1-0.2	SE284537.023	%	60 - 130%	71
	BH21_0.1-0.2	SE284537.024	%	60 - 130%	81
	BH15_0.1-0.2	SE284537.025	%	60 - 130%	80
	BH15_0.5-0.6	SE284537.026	%	60 - 130%	76
	QD01	SE284537.027	%	60 - 130%	94
	QD02	SE284537.028	%	60 - 130%	80
	QD03	SE284537.029	%	60 - 130%	77
	TRIP BLANK	SE284537.031	%	60 - 130%	85
TRIP SPIKE	SE284537.032	%	60 - 130%	96	
d8-toluene (Surrogate)	BH11_0.1-0.2	SE284537.001	%	60 - 130%	80
	BH11_0.6-0.7	SE284537.002	%	60 - 130%	81
	BH12_0.1-0.2	SE284537.003	%	60 - 130%	71
	BH23_0.1-0.2	SE284537.004	%	60 - 130%	73
	BH23_0.5-0.6	SE284537.005	%	60 - 130%	78
	BH24_0.1-0.2	SE284537.006	%	60 - 130%	73
	BH19_0.2-0.3	SE284537.007	%	60 - 130%	73
	BH19_0.6-0.7	SE284537.008	%	60 - 130%	80
	BH13_0.2-0.3	SE284537.009	%	60 - 130%	79
	BH27_0.0-0.1	SE284537.010	%	60 - 130%	76
	BH27_0.4-0.5	SE284537.011	%	60 - 130%	77
	BH25_0.1-0.2	SE284537.012	%	60 - 130%	77
	BH26_0.0-0.1	SE284537.013	%	60 - 130%	75
	BH02_0.1-0.2	SE284537.014	%	60 - 130%	74
	BH02_0.4-0.5	SE284537.015	%	60 - 130%	77
	BH18_0.1-0.2	SE284537.016	%	60 - 130%	74
	BH10_0.1-0.2	SE284537.017	%	60 - 130%	78
BH10_0.7-0.8	SE284537.018	%	60 - 130%	77	
BH16_0.2-0.3	SE284537.019	%	60 - 130%	76	
BH17_0.1-0.2	SE284537.020	%	60 - 130%	79	

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 identifier 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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	BH17_0.6-0.7	SE284537.021	%	60 - 130%	82
	BH20_0.1-0.2	SE284537.022	%	60 - 130%	81
	BH22_0.1-0.2	SE284537.023	%	60 - 130%	74
	BH21_0.1-0.2	SE284537.024	%	60 - 130%	82
	BH15_0.1-0.2	SE284537.025	%	60 - 130%	81
	BH15_0.5-0.6	SE284537.026	%	60 - 130%	79
	QD01	SE284537.027	%	60 - 130%	94
	QD02	SE284537.028	%	60 - 130%	81
	QD03	SE284537.029	%	60 - 130%	78
	TRIP BLANK	SE284537.031	%	60 - 130%	87
	TRIP SPIKE	SE284537.032	%	60 - 130%	97

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	R01	SE284537.030	%	40 - 130%	91
d4-1,2-dichloroethane (Surrogate)	R01	SE284537.030	%	40 - 130%	88
d8-toluene (Surrogate)	R01	SE284537.030	%	40 - 130%	90

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH11_0.1-0.2	SE284537.001	%	60 - 130%	84
	BH11_0.6-0.7	SE284537.002	%	60 - 130%	86
	BH12_0.1-0.2	SE284537.003	%	60 - 130%	76
	BH23_0.1-0.2	SE284537.004	%	60 - 130%	75
	BH23_0.5-0.6	SE284537.005	%	60 - 130%	82
	BH24_0.1-0.2	SE284537.006	%	60 - 130%	76
	BH19_0.2-0.3	SE284537.007	%	60 - 130%	75
	BH19_0.6-0.7	SE284537.008	%	60 - 130%	83
	BH13_0.2-0.3	SE284537.009	%	60 - 130%	90
	BH27_0.0-0.1	SE284537.010	%	60 - 130%	79
	BH27_0.4-0.5	SE284537.011	%	60 - 130%	81
	BH25_0.1-0.2	SE284537.012	%	60 - 130%	80
	BH26_0.0-0.1	SE284537.013	%	60 - 130%	80
	BH02_0.1-0.2	SE284537.014	%	60 - 130%	79
	BH02_0.4-0.5	SE284537.015	%	60 - 130%	82
	BH18_0.1-0.2	SE284537.016	%	60 - 130%	81
	BH10_0.1-0.2	SE284537.017	%	60 - 130%	84
	BH10_0.7-0.8	SE284537.018	%	60 - 130%	83
	BH16_0.2-0.3	SE284537.019	%	60 - 130%	83
	BH17_0.1-0.2	SE284537.020	%	60 - 130%	85
	BH17_0.6-0.7	SE284537.021	%	60 - 130%	90
	BH20_0.1-0.2	SE284537.022	%	60 - 130%	84
	BH22_0.1-0.2	SE284537.023	%	60 - 130%	80
	BH21_0.1-0.2	SE284537.024	%	60 - 130%	89
	BH15_0.1-0.2	SE284537.025	%	60 - 130%	86
	BH15_0.5-0.6	SE284537.026	%	60 - 130%	83
	QD01	SE284537.027	%	60 - 130%	100
	QD02	SE284537.028	%	60 - 130%	88
	QD03	SE284537.029	%	60 - 130%	86
	d4-1,2-dichloroethane (Surrogate)	BH11_0.1-0.2	SE284537.001	%	60 - 130%
BH11_0.6-0.7		SE284537.002	%	60 - 130%	78
BH12_0.1-0.2		SE284537.003	%	60 - 130%	69
BH23_0.1-0.2		SE284537.004	%	60 - 130%	68
BH23_0.5-0.6		SE284537.005	%	60 - 130%	74
BH24_0.1-0.2		SE284537.006	%	60 - 130%	69
BH19_0.2-0.3		SE284537.007	%	60 - 130%	69
BH19_0.6-0.7		SE284537.008	%	60 - 130%	77
BH13_0.2-0.3		SE284537.009	%	60 - 130%	79
BH27_0.0-0.1		SE284537.010	%	60 - 130%	72
BH27_0.4-0.5		SE284537.011	%	60 - 130%	72
BH25_0.1-0.2		SE284537.012	%	60 - 130%	74
BH26_0.0-0.1		SE284537.013	%	60 - 130%	72

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 identifier 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 %	
d4-1,2-dichloroethane (Surrogate)	BH02_0.1-0.2	SE284537.014	%	60 - 130%	71	
	BH02_0.4-0.5	SE284537.015	%	60 - 130%	75	
	BH18_0.1-0.2	SE284537.016	%	60 - 130%	70	
	BH10_0.1-0.2	SE284537.017	%	60 - 130%	75	
	BH10_0.7-0.8	SE284537.018	%	60 - 130%	72	
	BH16_0.2-0.3	SE284537.019	%	60 - 130%	73	
	BH17_0.1-0.2	SE284537.020	%	60 - 130%	78	
	BH17_0.6-0.7	SE284537.021	%	60 - 130%	80	
	BH20_0.1-0.2	SE284537.022	%	60 - 130%	79	
	BH22_0.1-0.2	SE284537.023	%	60 - 130%	71	
	BH21_0.1-0.2	SE284537.024	%	60 - 130%	81	
	BH15_0.1-0.2	SE284537.025	%	60 - 130%	80	
	BH15_0.5-0.6	SE284537.026	%	60 - 130%	76	
	QD01	SE284537.027	%	60 - 130%	94	
	QD02	SE284537.028	%	60 - 130%	80	
	QD03	SE284537.029	%	60 - 130%	77	
	d8-toluene (Surrogate)	BH11_0.1-0.2	SE284537.001	%	60 - 130%	80
		BH11_0.6-0.7	SE284537.002	%	60 - 130%	81
		BH12_0.1-0.2	SE284537.003	%	60 - 130%	71
		BH23_0.1-0.2	SE284537.004	%	60 - 130%	73
BH23_0.5-0.6		SE284537.005	%	60 - 130%	78	
BH24_0.1-0.2		SE284537.006	%	60 - 130%	73	
BH19_0.2-0.3		SE284537.007	%	60 - 130%	73	
BH19_0.6-0.7		SE284537.008	%	60 - 130%	80	
BH13_0.2-0.3		SE284537.009	%	60 - 130%	79	
BH27_0.0-0.1		SE284537.010	%	60 - 130%	76	
BH27_0.4-0.5		SE284537.011	%	60 - 130%	77	
BH25_0.1-0.2		SE284537.012	%	60 - 130%	77	
BH26_0.0-0.1		SE284537.013	%	60 - 130%	75	
BH02_0.1-0.2		SE284537.014	%	60 - 130%	74	
BH02_0.4-0.5		SE284537.015	%	60 - 130%	77	
BH18_0.1-0.2		SE284537.016	%	60 - 130%	74	
BH10_0.1-0.2		SE284537.017	%	60 - 130%	78	
BH10_0.7-0.8		SE284537.018	%	60 - 130%	77	
BH16_0.2-0.3		SE284537.019	%	60 - 130%	76	
BH17_0.1-0.2		SE284537.020	%	60 - 130%	79	
BH17_0.6-0.7		SE284537.021	%	60 - 130%	82	
BH20_0.1-0.2		SE284537.022	%	60 - 130%	81	
BH22_0.1-0.2		SE284537.023	%	60 - 130%	74	
BH21_0.1-0.2		SE284537.024	%	60 - 130%	82	
BH15_0.1-0.2		SE284537.025	%	60 - 130%	81	
BH15_0.5-0.6		SE284537.026	%	60 - 130%	79	
QD01		SE284537.027	%	60 - 130%	94	
QD02		SE284537.028	%	60 - 130%	81	
QD03		SE284537.029	%	60 - 130%	78	

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	R01	SE284537.030	%	40 - 130%	91
d4-1,2-dichloroethane (Surrogate)	R01	SE284537.030	%	60 - 130%	88
d8-toluene (Surrogate)	R01	SE284537.030	%	40 - 130%	90

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(Porth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB351153.001	Mercury	mg/L	0.0001	<0.0001

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result
LB350974.001	Mercury	mg/kg	0.05	<0.05
LB350975.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB350944.001	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)	%	-	75
LB350945.001	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)	%	-	94

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.

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	
LB350944.001	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)	%	-	77
		d14-p-terphenyl (Surrogate)	%	-	79
	LB350945.001	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)	%	-	89
		d14-p-terphenyl (Surrogate)	%	-	100

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB350944.001	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
	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	<0.8
	Surrogates	d5-nitrobenzene (Surrogate)	%	-
	2-fluorobiphenyl (Surrogate)	%	-	77
	d14-p-terphenyl (Surrogate)	%	-	79
LB350945.001	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
	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

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	
LB350945.001	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	<0.8	
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	102
	2-fluorobiphenyl (Surrogate)	%	-	89	
	d14-p-terphenyl (Surrogate)	%	-	100	

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB350944.001	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)	%	-	75
LB350945.001	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)	%	-	94

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB350970.001	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
LB350971.001	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
LB351424.001	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
LB350944.001	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

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TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN403

Sample Number	Parameter	Units	LOR	Result
LB350944.001	TRH C10-C36 Total	mg/kg	110	<110
LB350945.001	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)-ENVJAN403

Sample Number	Parameter	Units	LOR	Result
LB350948.001	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)-ENVJAN433

Sample Number	Parameter	Units	LOR	Result		
LB350965.001	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		

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VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

Sample Number	Parameter	Units	LOR	Result	
LB350965.001	Monocyclic Aromatic Hydrocarbons	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
	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
		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)	%	-	84
		d8-toluene (Surrogate)	%	-	88
		Bromofluorobenzene (Surrogate)	%	-	92
	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
LB350966.001	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
	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		

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VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

Sample Number	Parameter	Units	LOR	Result	
LB350966.001	Halogenated Aliphatics	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
	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
	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
		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)	%	-	85	
	d8-toluene (Surrogate)	%	-	86	
	Bromofluorobenzene (Surrogate)	%	-	93	
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)-ENVJAN433

Sample Number	Parameter	Units	LOR	Result	
LB350849.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
	Hydrocarbons	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)	%	-	85
		d8-toluene (Surrogate)	%	-	87
		Bromofluorobenzene (Surrogate)	%	-	86

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

Sample Number	Parameter	Units	LOR
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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.

Volatile Petroleum Hydrocarbons in Soil (continued)

Method: ME-(AU)-ENVJAN433

Sample Number	Parameter	Units	LOR	Result
LB350965.001	TRH C6-C9	mg/kg	20	<20
	Surrogates			
	d4-1,2-dichloroethane (Surrogate)	%	-	84
LB350966.001	TRH C6-C9	mg/kg	20	<20
	Surrogates			
	d4-1,2-dichloroethane (Surrogate)	%	-	85

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Sample Number	Parameter	Units	LOR	Result
LB350849.001	TRH C6-C9	µg/L	40	<40
	Surrogates			
	d4-1,2-dichloroethane (Surrogate)	%	-	85
	d8-toluene (Surrogate)	%	-	87
	Bromofluorobenzene (Surrogate)	%	-	86

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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 (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284555.001	LB351153.014	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	0
SE284691.010	LB351153.024	Mercury	µg/L	0.0001	<0.0001	<0.0001	119	108

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284537.010	LB350974.014	Mercury	mg/kg	0.05	<0.05	<0.05	155	0
SE284537.019	LB350974.024	Mercury	mg/kg	0.05	<0.05	<0.05	164	0
SE284537.021	LB350975.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE284537.029	LB350975.023	Mercury	mg/kg	0.05	0.05	0.06	123	12

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284537.010	LB350967.011	% Moisture	%w/w	1	23.2	21.9	34	6
SE284537.019	LB350967.021	% Moisture	%w/w	1	23.2	23.7	34	2
SE284537.021	LB350968.011	% Moisture	%w/w	1	21.5	22.2	35	4
SE284537.031	LB350968.021	% Moisture	%w/w	1	<1.0	<1.0	200	0

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284537.010	LB350944.014	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	-	0.43	0.44	30	2	
SE284537.019	LB350944.024	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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)-ENVJAN20

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %		
SE284537.019	LB350944.024	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	-	0.46	0.46	30	1	
		SE284537.020	LB350945.026	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	-	0.47	0.48	30	0	
SE284537.025	LB350945.027			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: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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)-IENVJAN20

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284537.025	LB350945.027	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	0.47	30	2

OP Pesticides in Soil

Method: ME-(AU)-IENVJAN20

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284537.010	LB350944.014	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
		Methodathion	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	-	0.4	0.4
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	1
SE284537.019	LB350944.024	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
		Methodathion	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	0.5
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE284537.020	LB350945.026	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
		Methodathion	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	0.5
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
SE284537.025	LB350945.027	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
		Methodathion	mg/kg	0.5	<0.5	<0.5	200	0
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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

OP Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284537.025	LB350945.027	Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates						
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
		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 %
SE284537.010	LB350944.014	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	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	<0.8	200	0
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.3	30	9
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	4
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	1
SE284537.019	LB350944.024	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	<0.8	200	0
		Surrogates						
		d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.6	30	3
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE284537.020	LB350945.026	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284537.020	LB350945.026	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	<0.8	200	0
		Surrogates		d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4
2-fluorobiphenyl (Surrogate)	mg/kg			-	0.5	0.5	30	0
d14-p-terphenyl (Surrogate)	mg/kg			-	0.5	0.5	30	2
SE284537.025	LB350945.027	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	180	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	<0.8	200	0		
Surrogates		d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	30	2
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2

PCBs in Soil

Method: ME-(AU)-ENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %		
SE284537.010	LB350944.014	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	-	0.43	0.44	30	2
		SE284537.019	LB350944.024	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		

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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

PCBs in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE284537.019	LB350944.024	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	-	0.46	0.46	30	1
SE284537.020	LB350945.026	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	-	0.47	0.48	30	0
		SE284537.025	LB350945.027	Arochlor 1016	mg/kg	0.1	<0.1	<0.1	200
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	0.47	30	1

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 %
SE284537.010	LB350970.014	Arsenic, As	mg/kg	1	6	5	48	5
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	11	11	35	1
		Copper, Cu	mg/kg	0.5	16	16	33	0
		Nickel, Ni	mg/kg	0.5	4.1	4.1	42	1
		Lead, Pb	mg/kg	1	27	27	34	1
		Zinc, Zn	mg/kg	2	54	66	33	19
SE284537.019	LB350970.024	Arsenic, As	mg/kg	1	6	7	45	9
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	154	0
		Chromium, Cr	mg/kg	0.5	13	12	34	10
		Copper, Cu	mg/kg	0.5	20	23	32	11
		Nickel, Ni	mg/kg	0.5	4.8	6.4	39	30
		Lead, Pb	mg/kg	1	44	46	32	5
		Zinc, Zn	mg/kg	2	43	42	35	3
SE284537.021	LB350971.014	Arsenic, As	mg/kg	1	5	5	51	9
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	15	16	33	8
		Copper, Cu	mg/kg	0.5	17	19	33	8
		Nickel, Ni	mg/kg	0.5	3.2	3.7	45	14
		Lead, Pb	mg/kg	1	22	23	35	4
		Zinc, Zn	mg/kg	2	14	15	44	5
SE284537.029	LB350971.023	Arsenic, As	mg/kg	1	8	7	43	11
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	177	0
		Chromium, Cr	mg/kg	0.5	16	14	33	14
		Copper, Cu	mg/kg	0.5	25	24	32	5
		Nickel, Ni	mg/kg	0.5	6.0	5.6	39	7
		Lead, Pb	mg/kg	1	76	84	31	11
		Zinc, Zn	mg/kg	2	83	77	33	8

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284691.010	LB351424.018	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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

Trace Metals (Dissolved) in Water by ICPMS (continued)

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284691.010	LB351424.018	Nickel	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	188	0

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN303

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE284537.010	LB350944.014	TRH C10-C14	mg/kg	20	<20	<20	194	0	
		TRH C15-C28	mg/kg	45	60	120	80	66	
		TRH C29-C36	mg/kg	45	100	160	65	44	
		TRH C37-C40	mg/kg	100	<100	<100	200	0	
		TRH C10-C36 Total	mg/kg	110	160	280	80	53	
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	240	139	14	
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	194	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	140	240	77	51
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE284537.019	LB350944.024	TRH C10-C14	mg/kg	20	<20	<20	200	0	
		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	<110	200	0	
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0	
		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	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE284537.020	LB350945.026	TRH C10-C14	mg/kg	20	<20	<20	200	0	
		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	<110	200	0	
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0	
		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	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE284537.025	LB350945.027	TRH C10-C14	mg/kg	20	<20	<20	200	0	
		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	<110	200	0	
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0	
		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	<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]AN303

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284530.002	LB350948.025	TRH C10-C14	µg/L	50	0	0	200	0
		TRH C15-C28	µg/L	200	0	0	200	0
		TRH C29-C36	µg/L	200	0	0	200	0
		TRH C37-C40	µg/L	200	0	0	200	0
		TRH C10-C40	µg/L	320	0	0	200	0
		TRH >C10-C16	µg/L	60	0	0	200	0
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	-0.0112763235	0	200	0
		TRH >C16-C34 (F3)	µg/L	500	0	0	200	0
		TRH >C34-C40 (F4)	µg/L	500	0	0	200	0

VOC's in Soil

Method: ME-(AU)-[ENV]AN303

Original	Duplicate	Parameter	Units	LOR
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Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284537.010	LB350965.014	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	Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	200	0
		Aliphatics	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	Chlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatics	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	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	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	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %		
SE284537.010	LB350965.014	Oxygenated Compounds	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	-	7.2	7.5	50	3
				d8-toluene (Surrogate)	mg/kg	-	7.6	7.9	50	3
		Bromofluorobenzene (Surrogate)		mg/kg	-	7.9	8.2	50	3	
		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	
		Trihalomethanes	Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0	
			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	
		SE284537.019	LB350965.024	Fumigants	Bromoform (THM)	mg/kg	0.1	<0.1	<0.1	200
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	
Halogenated Aliphatics	1,2-dibromoethane (EDB)			mg/kg	0.1	<0.1	<0.1	200	0	
	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	
Halogenated Aromatics	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				
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				

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE284537.019	LB350965.024	Halogenated	1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatics	1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
		Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	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	Acrylonitrile	mg/kg	0.1	<0.1	<0.1	200
		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
		Sulphonated	Carbon disulfide	mg/kg	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.3	7.5	50	2
			d8-toluene (Surrogate)	mg/kg	-	7.6	7.6	50	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	8.4	50	1
		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		
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		
SE284537.023	LB350966.014	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
			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			

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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)-ENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284537.023	LB350966.014	Halogenated	1,1-dichloropropane	mg/kg	0.1	<0.1	<0.1	200	0
		Aliphatics	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	Chlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatics	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	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	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	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	-	7.1	7.0	50	1
			d8-toluene (Surrogate)	mg/kg	-	7.4	7.1	50	4
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.0	7.9	50	1
		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
		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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)-IENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE284395.001	LB350849.023	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	0.6	0.6	113	6
			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	-	0.0	0.0	30	5
			d8-toluene (Surrogate)	µg/L	-	0.0	0.0	30	3
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	0.0	30	4
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
		SE284454.005	LB350849.024	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5
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	-	0.0	0.0	30	3
	d8-toluene (Surrogate)			µg/L	-	0.0	0.0	30	0
	Bromofluorobenzene (Surrogate)			µg/L	-	0.0	0.0	30	1
Totals	Total BTEX			µg/L	3	<3	<3	200	0

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-IENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE284537.010	LB350965.014	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	-	7.2	7.5	50	3
			d8-toluene (Surrogate)	mg/kg	-	7.6	7.9	50	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.9	8.2	50	3
		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
SE284537.019	LB350965.024	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	-	7.3	7.5	50	2
			d8-toluene (Surrogate)	mg/kg	-	7.6	7.6	50	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	8.4	50	1
		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
SE284537.023	LB350966.014	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	-	7.1	7.0	50	1
			d8-toluene (Surrogate)	mg/kg	-	7.4	7.1	50	4
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.0	7.9	50	1
		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

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-IENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE284395.001	LB350849.023	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	-	0.0	0.0	30	5
			d8-toluene (Surrogate)	µg/L	-	0.0	0.0	30	3
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	0.0	30	4
		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
SE284454.005	LB350849.024	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	-	0.0	0.0	30	3
			d8-toluene (Surrogate)	µg/L	-	0.0	0.0	30	0
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	0.0	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.

Mercury in Soil

Method: ME-(AU)-[ENV]JAN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB350974.002	Mercury	mg/kg	0.05	0.21	0.2	80 - 120	103
LB350975.002	Mercury	mg/kg	0.05	0.22	0.2	80 - 120	111

OC Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB350944.002	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	106
	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	107
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	108
	Dieldrin	mg/kg	0.1	0.3	0.2	60 - 140	128
	Endrin	mg/kg	0.1	0.2	0.2	60 - 140	117
	p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	106
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.46	0.5	40 - 130	92
LB350945.002	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	119
	Heptachlor	mg/kg	0.1	0.3	0.2	60 - 140	139
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	114
	Dieldrin	mg/kg	0.1	0.3	0.2	60 - 140	132
	Endrin	mg/kg	0.1	0.2	0.2	60 - 140	122
	p,p'-DDT	mg/kg	0.1	0.3	0.2	60 - 140	135
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.45	0.5	40 - 130	90

OP Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB350944.002	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.7	2	60 - 140	86
	Diazinon (Dimpylate)	mg/kg	0.5	2.1	2	60 - 140	104
	Dichlorvos	mg/kg	0.5	1.8	2	60 - 140	91
	Ethion	mg/kg	0.2	1.6	2	60 - 140	79
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130
d14-p-terphenyl (Surrogate)		mg/kg	-	0.5	0.5	70 - 130	102
LB350945.002	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.9	2	60 - 140	97
	Diazinon (Dimpylate)	mg/kg	0.5	2.4	2	60 - 140	121
	Dichlorvos	mg/kg	0.5	2.0	2	60 - 140	101
	Ethion	mg/kg	0.2	2.5	2	60 - 140	127
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	70 - 130
d14-p-terphenyl (Surrogate)		mg/kg	-	0.5	0.5	70 - 130	104

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB350944.002	Naphthalene	mg/kg	0.1	3.9	4	60 - 140	98	
	Acenaphthylene	mg/kg	0.1	3.9	4	60 - 140	97	
	Acenaphthene	mg/kg	0.1	3.9	4	60 - 140	99	
	Phenanthrene	mg/kg	0.1	4.2	4	60 - 140	106	
	Anthracene	mg/kg	0.1	4.2	4	60 - 140	105	
	Fluoranthene	mg/kg	0.1	4.7	4	60 - 140	117	
	Pyrene	mg/kg	0.1	4.7	4	60 - 140	118	
	Benzo(a)pyrene	mg/kg	0.1	3.5	4	60 - 140	88	
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	89
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	97
d14-p-terphenyl (Surrogate)		mg/kg	-	0.5	0.5	70 - 130	102	
LB350945.002	Naphthalene	mg/kg	0.1	4.0	4	60 - 140	99	
	Acenaphthylene	mg/kg	0.1	3.8	4	60 - 140	95	
	Acenaphthene	mg/kg	0.1	4.1	4	60 - 140	102	
	Phenanthrene	mg/kg	0.1	4.4	4	60 - 140	110	
	Anthracene	mg/kg	0.1	4.2	4	60 - 140	105	
	Fluoranthene	mg/kg	0.1	5.2	4	60 - 140	130	
	Pyrene	mg/kg	0.1	4.2	4	60 - 140	104	
	Benzo(a)pyrene	mg/kg	0.1	3.7	4	60 - 140	92	
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	94
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	87
d14-p-terphenyl (Surrogate)		mg/kg	-	0.5	0.5	70 - 130	104	

PCBs in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR
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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.

PCBs in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB350944.002	Arochlor 1260	mg/kg	0.1	0.5	0.4	60 - 140	113
	Surrogates	TCMX (Surrogate)		0.46	0.5	40 - 130	92
LB350945.002	Arochlor 1260	mg/kg	0.1	0.5	0.4	60 - 140	119
	Surrogates	TCMX (Surrogate)		0.45	0.5	40 - 130	90

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 %
LB350970.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	108
	Cadmium, Cd	mg/kg	0.3	4.9	4.81	70 - 130	103
	Chromium, Cr	mg/kg	0.5	41	38.31	80 - 120	107
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	110
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	107
	Lead, Pb	mg/kg	1	96	89.9	80 - 120	107
	Zinc, Zn	mg/kg	2	280	273	80 - 120	104
LB350971.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	106
	Cadmium, Cd	mg/kg	0.3	5.0	4.81	70 - 130	104
	Chromium, Cr	mg/kg	0.5	38	38.31	80 - 120	98
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	109
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	104
	Lead, Pb	mg/kg	1	94	89.9	80 - 120	105
	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 %
LB351424.002	Arsenic	µg/L	1	21	20	80 - 120	103
	Cadmium	µg/L	0.1	21	20	80 - 120	105
	Chromium	µg/L	1	20	20	80 - 120	102
	Copper	µg/L	1	20	20	80 - 120	101
	Lead	µg/L	1	20	20	80 - 120	98
	Nickel	µg/L	1	21	20	80 - 120	103
	Zinc	µg/L	5	21	20	80 - 120	106

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB350944.002	TRH C10-C14	mg/kg	20	200	200	60 - 140	102
	TRH F Bands	TRH >C10-C16	mg/kg	25	210	200	60 - 140
LB350945.002	TRH C10-C14	mg/kg	20	250	200	60 - 140	125
	TRH F Bands	TRH >C10-C16	mg/kg	25	250	200	60 - 140

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB350948.002	TRH C10-C14	µg/L	50	700	1000	60 - 140	70
	TRH F Bands	TRH >C10-C16	µg/L	60	700	1000	60 - 140

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %		
LB350965.002	Halogenated	1,1-dichloroethene	mg/kg	0.1	3.6	5	60 - 140	72	
		Aliphatics	1,2-dichloroethane	mg/kg	0.1	3.8	5	60 - 140	76
			Trichloroethene (Trichloroethylene, TCE)	mg/kg	0.1	3.9	5	60 - 140	78
	Halogenated	Chlorobenzene	mg/kg	0.1	3.4	5	60 - 140	68	
	Monocyclic	Benzene	mg/kg	0.1	3.2	5	60 - 140	65	
	Aromatic	Toluene	mg/kg	0.1	3.3	5	60 - 140	66	
		Ethylbenzene	mg/kg	0.1	3.1	5	60 - 140	62	
		m/p-xylene	mg/kg	0.2	6.1	10	60 - 140	61	
		o-xylene	mg/kg	0.1	3.4	5	60 - 140	68	
	Trihalomethan	Chloroform (THM)	mg/kg	0.1	3.5	5	60 - 140	69	
LB350966.002	Halogenated	1,1-dichloroethene	mg/kg	0.1	4.8	5	60 - 140	96	
		Aliphatics	1,2-dichloroethane	mg/kg	0.1	4.7	5	60 - 140	95
	Trichloroethene (Trichloroethylene, TCE)		mg/kg	0.1	4.7	5	60 - 140	95	
	Halogenated	Chlorobenzene	mg/kg	0.1	4.0	5	60 - 140	81	
	Monocyclic	Benzene	mg/kg	0.1	4.3	5	60 - 140	86	
	Aromatic	Toluene	mg/kg	0.1	4.6	5	60 - 140	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.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB350966.002	Monocyclic	Ethylbenzene	mg/kg	0.1	3.8	5	60 - 140	76
	Aromatic	m/p-xylene	mg/kg	0.2	8.5	10	60 - 140	85
		o-xylene	mg/kg	0.1	4.3	5	60 - 140	86
	Trihalomethan	Chloroform (THM)	mg/kg	0.1	5.3	5	60 - 140	106

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB350849.002	Monocyclic	Benzene	µg/L	0.5	47	45.45	60 - 140	103
	Aromatic	Toluene	µg/L	0.5	45	45.45	60 - 140	99
		Ethylbenzene	µg/L	0.5	44	45.45	60 - 140	96
		m/p-xylene	µg/L	1	86	90.9	60 - 140	95
		o-xylene	µg/L	0.5	44	45.45	60 - 140	96
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.7	10	60 - 140	97
		d8-toluene (Surrogate)	µg/L	-	9.7	10	70 - 130	97
	Bromofluorobenzene (Surrogate)	µg/L	-	8.8	10	70 - 130	88	

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB350965.002		TRH C6-C10	mg/kg	25	61	92.5	60 - 140	66
		TRH C6-C9	mg/kg	20	51	80	60 - 140	63
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	39	62.5	60 - 140	62
LB350966.002		TRH C6-C10	mg/kg	25	78	92.5	60 - 140	84
		TRH C6-C9	mg/kg	20	65	80	60 - 140	81
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	52	62.5	60 - 140	84

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB350849.002		TRH C6-C10	µg/L	50	830	946.63	60 - 140	87
		TRH C6-C9	µg/L	40	700	818.71	60 - 140	86
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.7	10	60 - 140	97
		d8-toluene (Surrogate)	µg/L	-	9.7	10	70 - 130	97
		Bromofluorobenzene (Surrogate)	µg/L	-	8.8	10	70 - 130	88
		VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	560	639.67	60 - 140

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 identifier 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(Parth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE284472.007	LB351153.004	Mercury	mg/L	0.0001	0.0020	-0.008	0.008	101

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE284537.001	LB350974.004	Mercury	mg/kg	0.05	0.18	<0.05	0.2	80

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE284455.001	LB350945.025	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	0.2	107	
		Heptachlor	mg/kg	0.1	<0.1	0.2	132	
		Aldrin	mg/kg	0.1	<0.1	0.2	101	
		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	0.2	120	
		Endrin	mg/kg	0.1	<0.1	0.2	126	
		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	0.2	125	
		Endrin ketone	mg/kg	0.1	<0.1	-	-	-
		Methoxychlor	mg/kg	0.1	<0.1	-	-	-
		Mirex	mg/kg	0.1	<0.1	-	-	-
		Total OC Pesticides	mg/kg	0.1	<0.1	-	-	-
		Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	-	-	-
		Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	-	-	-
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.47	-	89		
SE284537.001	LB350944.004	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	102
		Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	105
		Aldrin	mg/kg	0.1	0.2	<0.1	0.2	103
		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	116
		Endrin	mg/kg	0.1	0.2	<0.1	0.2	108
		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	96
Endrin ketone	mg/kg	0.1	<0.1	<0.1	-	-		
Methoxychlor	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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE284537.001	LB350944.004	Mirex	mg/kg	0.1	<0.1	<0.1	-	-	
		Total OC Pesticides	mg/kg	0.1	1.3	<0.1	-	-	
		Total OC VIC EPA IWRG621	mg/kg	0.1	1.3	<0.1	-	-	
		Total Other OCP VIC EPA IWRG621	mg/kg	0.1	0.6	<0.1	-	-	
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.45	0.47	-	91

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE284455.001	LB350945.025	Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-	
		Bromophos Ethyl	mg/kg	0.2	<0.2	-	-	-	
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	2	94	94	
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5	2	115	115	
		Dichlorvos	mg/kg	0.5	<0.5	2	96	96	
		Dimethoate	mg/kg	0.5	<0.5	-	-	-	
		Ethion	mg/kg	0.2	<0.2	2	118	118	
		Fenitrothion	mg/kg	0.2	<0.2	-	-	-	
		Malathion	mg/kg	0.2	<0.2	-	-	-	
		Methodathion	mg/kg	0.5	<0.5	-	-	-	
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	-	-	-	
		Total OP Pesticides*	mg/kg	1.7	<1.7	-	-	-	
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	-	86	
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	-	103	103	
SE284537.001	LB350944.004	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	1.7	<0.2	2	84	
		Diazinon (Dimpylate)	mg/kg	0.5	2.0	<0.5	2	100	
		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	1.6	<0.2	2	76	
		Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-	
		Malathion	mg/kg	0.2	<0.2	<0.2	-	-	
		Methodathion	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	7.1	<1.7	-	-	
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	97
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	95	

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE284455.001	LB350945.025	Naphthalene	mg/kg	0.1	<0.1	4	96	96
		2-methylnaphthalene	mg/kg	0.1	<0.1	-	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	-	-	-
		Acenaphthylene	mg/kg	0.1	<0.1	4	91	91
		Acenaphthene	mg/kg	0.1	<0.1	4	101	101
		Fluorene	mg/kg	0.1	<0.1	-	-	-
		Phenanthrene	mg/kg	0.1	<0.1	4	108	108
		Anthracene	mg/kg	0.1	<0.1	4	101	101
		Fluoranthene	mg/kg	0.1	<0.1	4	126	126
		Pyrene	mg/kg	0.1	<0.1	4	129	129
		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	4	91	91
		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/2*	TEQ (mg/kg)	0.2	<0.2	-	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	-	-	-
		Total PAH (18)	mg/kg	0.8	<0.8	-	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	-	90

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PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE284455.001	LB350945.025	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	-	86	
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	-	103	
SE284537.001	LB350944.004		Naphthalene	mg/kg	0.1	3.9	<0.1	4	97
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			Acenaphthylene	mg/kg	0.1	3.7	<0.1	4	92
			Acenaphthene	mg/kg	0.1	3.9	<0.1	4	97
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	5.0	0.2	4	121
			Anthracene	mg/kg	0.1	4.2	<0.1	4	103
			Fluoranthene	mg/kg	0.1	5.5	0.4	4	127
			Pyrene	mg/kg	0.1	5.3	0.3	4	124
			Benzo(a)anthracene	mg/kg	0.1	0.4	0.2	-	-
			Chrysene	mg/kg	0.1	0.5	0.2	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	0.3	0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	0.5	0.2	-	-
			Benzo(a)pyrene	mg/kg	0.1	3.9	0.2	4	93
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.3	0.2	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(ghi)perylene	mg/kg	0.1	0.2	0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	4.1	0.3	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	4.1	0.3	-	-
	Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	4.2	0.4	-	-		
	Total PAH (18)	mg/kg	0.8	38	2.2	-	-		
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	93	
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	97	
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	95	

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%		
SE284455.001	LB350945.025		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	0.4	108		
			Total PCBs	mg/kg	0.1	<0.1	-	-		
			Surrogates	TCMX (Surrogate)	mg/kg	-	0.47	-	89	
		SE284537.001	LB350944.004		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	0.4	<0.1	0.4	111	
	Total PCBs			mg/kg	0.1	0.4	<0.1	-	-	
	Surrogates			TCMX (Surrogate)	mg/kg	-	0.45	0.47	-	91

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE284537.001	LB350970.004		Arsenic, As	mg/kg	1	55	7	50	97
			Cadmium, Cd	mg/kg	0.3	46	<0.3	50	91
			Chromium, Cr	mg/kg	0.5	73	9.7	50	126
			Copper, Cu	mg/kg	0.5	75	17	50	115
			Nickel, Ni	mg/kg	0.5	57	3.3	50	108
			Lead, Pb	mg/kg	1	110	49	50	120
			Zinc, Zn	mg/kg	2	83	37	50	93
SE284571.020	LB350971.004		Arsenic, As	mg/kg	1	44	6	50	76
			Cadmium, Cd	mg/kg	0.3	37	2.2	50	70 @
			Chromium, Cr	mg/kg	0.5	51	9.5	50	82
			Copper, Cu	mg/kg	0.5	62	16	50	92

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Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE284571.020	LB350971.004	Nickel, Ni	mg/kg	0.5	48	8.2	50	81
		Lead, Pb	mg/kg	1	68	18	50	101
		Zinc, Zn	mg/kg	2	95	36	50	119

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE284455.001	LB350945.025	TRH C10-C14	mg/kg	20	250	<20	200	122	
		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	250	<110	-	-	
		TRH >C10-C40 Total (F bands)	mg/kg	210	250	<210	-	-	
		TRH F Bands	TRH >C10-C16	mg/kg	25	250	<25	200	122
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	250	<25	-	-	
		TRH >C16-C34 (F3)	mg/kg	90	<90	<90	-	-	
		TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-	
SE284537.001	LB350944.004	TRH C10-C14	mg/kg	20	220	<20	200	109	
		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	220	<210	-	-	
		TRH F Bands	TRH >C10-C16	mg/kg	25	220	<25	200	109
		TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	220	<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%			
SE284455.001	LB350966.004	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.3	<0.1	5	85		
			Toluene	mg/kg	0.1	4.6	<0.1	5	91		
		Polycyclic	Ethylbenzene	mg/kg	0.1	3.9	<0.1	5	78		
			m/p-xylene	mg/kg	0.2	8.8	<0.2	10	87		
			o-xylene	mg/kg	0.1	4.5	<0.1	5	90		
			Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-		
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.9	8.7	-	109		
			d8-toluene (Surrogate)	mg/kg	-	11.4	9.0	-	114		
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.6	9.4	-	96		
			Totals	Total BTEX*	mg/kg	0.6	26	<0.6	-	-	
				Total Xylenes*	mg/kg	0.3	13	<0.3	-	-	
		SE284537.001	LB350965.004	Fumigants	2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	-	-
					1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	-	-
					cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	-	-
trans-1,3-dichloropropene	mg/kg				0.1	<0.1	<0.1	-	-		
1,2-dibromoethane (EDB)	mg/kg				0.1	<0.1	<0.1	-	-		
Halogenated Aliphatics	Dichlorodifluoromethane (CFC-12)			mg/kg	1	<1	<1	-	-		
	Chloromethane			mg/kg	1	<1	<1	-	-		
	Vinyl chloride (Chloroethene)			mg/kg	0.1	<0.1	<0.1	-	-		
	Bromomethane			mg/kg	1	<1	<1	-	-		
	Chloroethane			mg/kg	1	<1	<1	-	-		
	Trichlorofluoromethane			mg/kg	1	<1	<1	-	-		
	1,1-dichloroethene			mg/kg	0.1	4.5	<0.1	5	90		
	Iodomethane			mg/kg	5	<5	<5	-	-		
	Dichloromethane (Methylene chloride)			mg/kg	0.5	<0.5	<0.5	-	-		
	Allyl chloride			mg/kg	0.1	<0.1	<0.1	-	-		
	trans-1,2-dichloroethene			mg/kg	0.1	<0.1	<0.1	-	-		
	1,1-dichloroethane			mg/kg	0.1	<0.1	<0.1	-	-		
	cis-1,2-dichloroethene			mg/kg	0.1	<0.1	<0.1	-	-		
	Bromochloromethane			mg/kg	0.1	<0.1	<0.1	-	-		
	1,2-dichloroethane			mg/kg	0.1	4.9	<0.1	5	97		
	1,1,1-trichloroethane			mg/kg	0.1	<0.1	<0.1	-	-		
	1,1-dichloropropene			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 identifier 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%		
SE284537.001	LB350965.004	Halogenated	Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	-	-	
		Aliphatics	Dibromomethane	mg/kg	0.1	<0.1	<0.1	-	-	
			Trichloroethene (Trichloroethylene,TCE)	mg/kg	0.1	5.0	<0.1	5	99	
			1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	-	-	
			1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	-	-	
			Tetrachloroethene (Perchloroethylene,PCE)	mg/kg	0.1	<0.1	<0.1	-	-	
			1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	-	-	
			1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	-	-	
			1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	-	-	
			trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	-	-	
			1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	-	-	
			Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	-	-	
			Halogenated Aromatics	Chlorobenzene	mg/kg	0.1	4.3	<0.1	5	86
				Bromobenzene	mg/kg	0.1	<0.1	<0.1	-	-
		2-chlorotoluene		mg/kg	0.1	<0.1	<0.1	-	-	
		4-chlorotoluene		mg/kg	0.1	<0.1	<0.1	-	-	
		1,3-dichlorobenzene		mg/kg	0.1	<0.1	<0.1	-	-	
		1,4-dichlorobenzene		mg/kg	0.1	<0.1	<0.1	-	-	
		1,2-dichlorobenzene		mg/kg	0.1	<0.1	<0.1	-	-	
		1,2,4-trichlorobenzene		mg/kg	0.1	<0.1	<0.1	-	-	
		1,2,3-trichlorobenzene		mg/kg	0.1	<0.1	<0.1	-	-	
		Monocyclic Aromatic		Benzene	mg/kg	0.1	4.1	<0.1	5	83
			Toluene	mg/kg	0.1	4.2	<0.1	5	84	
			Ethylbenzene	mg/kg	0.1	3.9	<0.1	5	78	
			m/p-xylene	mg/kg	0.2	7.8	<0.2	10	78	
			Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	-	-	
			o-xylene	mg/kg	0.1	4.4	<0.1	5	88	
			Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	-	-	
			n-propylbenzene	mg/kg	0.1	<0.1	<0.1	-	-	
			1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	-	-	
			tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	-	-	
			1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	-	-	
			sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	-	-	
			p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	-	-	
			n-butylbenzene	mg/kg	0.1	<0.1	<0.1	-	-	
			Nitrogenous Compounds	Acrylonitrile	mg/kg	0.1	<0.1	<0.1	-	-
				2-nitropropane	mg/kg	10	<10	<10	-	-
			Oxygenated Compounds	Acetone (2-propanone)	mg/kg	10	<10	<10	-	-
		MtBE (Methyl-tert-butyl ether)		mg/kg	0.1	<0.1	<0.1	-	-	
		Vinyl acetate*		mg/kg	10	<10	<10	-	-	
		MEK (2-butanone)		mg/kg	10	<10	<10	-	-	
		MBK (4-methyl-2-pentanone)		mg/kg	1	<1	<1	-	-	
		Polycyclic	2-hexanone (MBK)	mg/kg	5	<5	<5	-	-	
			Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-	
		Sulphonated	Carbon disulfide	mg/kg	0.5	<0.5	<0.5	-	-	
			Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.4	7.7	-	74
				d8-toluene (Surrogate)	mg/kg	-	7.8	8.0	-	78
		Bromofluorobenzene (Surrogate)		mg/kg	-	6.8	8.4	-	68	
		Totals	Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	23	<1.8	-	-	
			Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	23	<1.8	-	-	
			Total BTEX*	mg/kg	0.6	24	<0.6	-	-	
			Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0	-	-	
			Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0	-	-	
			Total VOC*	mg/kg	24	49	<24	-	-	
			Total Xylenes*	mg/kg	0.3	12	<0.3	-	-	
		Trihalomethanes	Chloroform (THM)	mg/kg	0.1	4.5	<0.1	5	90	
			Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1	-	-	
			Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1	-	-	
			Bromoform (THM)	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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%	
SE284537.030	LB350849.025	Monocyclic	Benzene	µg/L	0.5	<0.5	45.45	99
		Aromatic	Toluene	µg/L	0.5	<0.5	45.45	97
			Ethylbenzene	µg/L	0.5	<0.5	45.45	95
			m/p-xylene	µg/L	1	<1	90.9	93
			o-xylene	µg/L	0.5	<0.5	45.45	96
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.8	-	96
			d8-toluene (Surrogate)	µg/L	-	9.0	-	97
			Bromofluorobenzene (Surrogate)	µg/L	-	9.1	-	87
		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%	
SE28455.001	LB350966.004	Bands	TRH C6-C10	mg/kg	25	81	<25	92.5	87
			TRH C6-C9	mg/kg	20	66	<20	80	82
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.9	8.7	-	109
			d8-toluene (Surrogate)	mg/kg	-	11.4	9.0	-	114
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.6	9.4	-	96
		VPH F	Benzene (F0)	mg/kg	0.1	4.3	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	54	<25	62.5	87
		SE284537.001	LB350965.004	Bands	TRH C6-C10	mg/kg	25	64	<25
TRH C6-C9	mg/kg				20	53	<20	80	66
Surrogates	d4-1,2-dichloroethane (Surrogate)			mg/kg	-	7.4	7.7	-	74
	d8-toluene (Surrogate)			mg/kg	-	7.8	8.0	-	78
	Bromofluorobenzene (Surrogate)			mg/kg	-	6.8	8.4	-	68
VPH F	Benzene (F0)			mg/kg	0.1	3.6	<0.1	-	-
Bands	TRH C6-C10 minus BTEX (F1)			mg/kg	25	42	<25	62.5	67

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%	
SE284537.030	LB350849.025	Bands	TRH C6-C10	µg/L	50	<50	946.63	86
			TRH C6-C9	µg/L	40	<40	818.71	86
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.8	-	96
			d8-toluene (Surrogate)	µg/L	-	9.0	-	97
			Bromofluorobenzene (Surrogate)	µg/L	-	9.1	-	87
		VPH F	Benzene (F0)	µg/L	0.5	<0.5	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	639.67	86

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf

- * 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.
- 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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 Order Number **E26536**
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SGS Reference **SE284685 R0**
 Date Received 13 Jun 2025
 Date Reported 23 Jun 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
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SAMPLE SUMMARY

Sample counts by matrix	7 Soil	Type of documentation received	COC
Date documentation received	16/6/2025@3:49pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	19.2°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		

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
BH09_0.3-0.5	SE284685.001	LB351768	11 Jun 2025	13 Jun 2025	11 Jun 2026	20 Jun 2025	11 Jun 2026	23 Jun 2025
BH06_0.4-0.5	SE284685.003	LB351768	13 Jun 2025	13 Jun 2025	13 Jun 2026	20 Jun 2025	13 Jun 2026	23 Jun 2025
BH03_0.3-5	SE284685.005	LB351768	12 Jun 2025	13 Jun 2025	12 Jun 2026	20 Jun 2025	12 Jun 2026	23 Jun 2025
BH14_0.4-0.5	SE284685.006	LB351768	13 Jun 2025	13 Jun 2025	13 Jun 2026	20 Jun 2025	13 Jun 2026	23 Jun 2025

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH09_0.3-0.5	SE284685.001	LB351340	11 Jun 2025	13 Jun 2025	09 Jul 2025	17 Jun 2025	09 Jul 2025	20 Jun 2025
BH09_1.0-1.2	SE284685.002	LB351340	11 Jun 2025	13 Jun 2025	09 Jul 2025	17 Jun 2025	09 Jul 2025	20 Jun 2025
BH06_0.4-0.5	SE284685.003	LB351340	13 Jun 2025	13 Jun 2025	11 Jul 2025	17 Jun 2025	11 Jul 2025	20 Jun 2025
BH06_1.0-1.1	SE284685.004	LB351340	13 Jun 2025	13 Jun 2025	11 Jul 2025	17 Jun 2025	11 Jul 2025	20 Jun 2025
BH03_0.3-5	SE284685.005	LB351340	12 Jun 2025	13 Jun 2025	10 Jul 2025	17 Jun 2025	10 Jul 2025	20 Jun 2025
BH14_0.4-0.5	SE284685.006	LB351340	13 Jun 2025	13 Jun 2025	11 Jul 2025	17 Jun 2025	11 Jul 2025	20 Jun 2025
BH14_0.9-1.0	SE284685.007	LB351340	13 Jun 2025	13 Jun 2025	11 Jul 2025	17 Jun 2025	11 Jul 2025	20 Jun 2025

Moisture Content

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH09_0.3-0.5	SE284685.001	LB351324	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	22 Jun 2025	19 Jun 2025
BH09_1.0-1.2	SE284685.002	LB351324	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	22 Jun 2025	19 Jun 2025
BH06_0.4-0.5	SE284685.003	LB351324	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	22 Jun 2025	19 Jun 2025
BH06_1.0-1.1	SE284685.004	LB351324	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	22 Jun 2025	19 Jun 2025
BH03_0.3-5	SE284685.005	LB351324	12 Jun 2025	13 Jun 2025	26 Jun 2025	17 Jun 2025	22 Jun 2025	19 Jun 2025
BH14_0.4-0.5	SE284685.006	LB351324	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	22 Jun 2025	19 Jun 2025
BH14_0.9-1.0	SE284685.007	LB351324	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	22 Jun 2025	19 Jun 2025

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH09_0.3-0.5	SE284685.001	LB351309	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH09_1.0-1.2	SE284685.002	LB351309	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH06_0.4-0.5	SE284685.003	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH06_1.0-1.1	SE284685.004	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH03_0.3-5	SE284685.005	LB351309	12 Jun 2025	13 Jun 2025	26 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH14_0.4-0.5	SE284685.006	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH14_0.9-1.0	SE284685.007	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH09_0.3-0.5	SE284685.001	LB351309	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH09_1.0-1.2	SE284685.002	LB351309	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH06_0.4-0.5	SE284685.003	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH06_1.0-1.1	SE284685.004	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH03_0.3-5	SE284685.005	LB351309	12 Jun 2025	13 Jun 2025	26 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH14_0.4-0.5	SE284685.006	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH14_0.9-1.0	SE284685.007	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 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
BH09_0.3-0.5	SE284685.001	LB351309	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH09_1.0-1.2	SE284685.002	LB351309	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH06_0.4-0.5	SE284685.003	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH06_1.0-1.1	SE284685.004	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH03_0.3-5	SE284685.005	LB351309	12 Jun 2025	13 Jun 2025	26 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH14_0.4-0.5	SE284685.006	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH14_0.9-1.0	SE284685.007	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH09_0.3-0.5	SE284685.001	LB351309	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH09_1.0-1.2	SE284685.002	LB351309	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH06_0.4-0.5	SE284685.003	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH06_1.0-1.1	SE284685.004	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH03_0.3-5	SE284685.005	LB351309	12 Jun 2025	13 Jun 2025	26 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025
BH14_0.4-0.5	SE284685.006	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025

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

PCBs in Soil (continued)

Method: ME-(AU)-[ENV]JAN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH14_0.9-1.0	SE284685.007	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	20 Jun 2025

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]JAN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH09_0.3-0.5	SE284685.001	LB351333	11 Jun 2025	13 Jun 2025	08 Dec 2025	17 Jun 2025	08 Dec 2025	20 Jun 2025
BH09_1.0-1.2	SE284685.002	LB351333	11 Jun 2025	13 Jun 2025	08 Dec 2025	17 Jun 2025	08 Dec 2025	20 Jun 2025
BH06_0.4-0.5	SE284685.003	LB351333	13 Jun 2025	13 Jun 2025	10 Dec 2025	17 Jun 2025	10 Dec 2025	20 Jun 2025
BH06_1.0-1.1	SE284685.004	LB351333	13 Jun 2025	13 Jun 2025	10 Dec 2025	17 Jun 2025	10 Dec 2025	20 Jun 2025
BH03_0.3-5	SE284685.005	LB351333	12 Jun 2025	13 Jun 2025	09 Dec 2025	17 Jun 2025	09 Dec 2025	20 Jun 2025
BH14_0.4-0.5	SE284685.006	LB351333	13 Jun 2025	13 Jun 2025	10 Dec 2025	17 Jun 2025	10 Dec 2025	20 Jun 2025
BH14_0.9-1.0	SE284685.007	LB351333	13 Jun 2025	13 Jun 2025	10 Dec 2025	17 Jun 2025	10 Dec 2025	20 Jun 2025

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH09_0.3-0.5	SE284685.001	LB351309	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	27 Jul 2025	19 Jun 2025
BH09_1.0-1.2	SE284685.002	LB351309	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	27 Jul 2025	19 Jun 2025
BH06_0.4-0.5	SE284685.003	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	19 Jun 2025
BH06_1.0-1.1	SE284685.004	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	19 Jun 2025
BH03_0.3-5	SE284685.005	LB351309	12 Jun 2025	13 Jun 2025	26 Jun 2025	17 Jun 2025	27 Jul 2025	19 Jun 2025
BH14_0.4-0.5	SE284685.006	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	19 Jun 2025
BH14_0.9-1.0	SE284685.007	LB351309	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jul 2025	19 Jun 2025

VOC's in Soil

Method: ME-(AU)-[ENV]JAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH09_0.3-0.5	SE284685.001	LB351318	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	25 Jun 2025	20 Jun 2025
BH09_1.0-1.2	SE284685.002	LB351318	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	25 Jun 2025	20 Jun 2025
BH06_0.4-0.5	SE284685.003	LB351318	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jun 2025	20 Jun 2025
BH06_1.0-1.1	SE284685.004	LB351318	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jun 2025	20 Jun 2025
BH03_0.3-5	SE284685.005	LB351318	12 Jun 2025	13 Jun 2025	26 Jun 2025	17 Jun 2025	26 Jun 2025	20 Jun 2025
BH14_0.4-0.5	SE284685.006	LB351318	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jun 2025	20 Jun 2025
BH14_0.9-1.0	SE284685.007	LB351318	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jun 2025	20 Jun 2025

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]JAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH09_0.3-0.5	SE284685.001	LB351318	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	25 Jun 2025	20 Jun 2025
BH09_1.0-1.2	SE284685.002	LB351318	11 Jun 2025	13 Jun 2025	25 Jun 2025	17 Jun 2025	25 Jun 2025	20 Jun 2025
BH06_0.4-0.5	SE284685.003	LB351318	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jun 2025	20 Jun 2025
BH06_1.0-1.1	SE284685.004	LB351318	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jun 2025	20 Jun 2025
BH03_0.3-5	SE284685.005	LB351318	12 Jun 2025	13 Jun 2025	26 Jun 2025	17 Jun 2025	26 Jun 2025	20 Jun 2025
BH14_0.4-0.5	SE284685.006	LB351318	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jun 2025	20 Jun 2025
BH14_0.9-1.0	SE284685.007	LB351318	13 Jun 2025	13 Jun 2025	27 Jun 2025	17 Jun 2025	27 Jun 2025	20 Jun 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 identifier 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)	BH09_0.3-0.5	SE284685.001	%	60 - 130%	98
	BH06_0.4-0.5	SE284685.003	%	60 - 130%	97
	BH03_0.3-5	SE284685.005	%	60 - 130%	96
	BH14_0.4-0.5	SE284685.006	%	60 - 130%	97

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH09_0.3-0.5	SE284685.001	%	60 - 130%	105
	BH06_0.4-0.5	SE284685.003	%	60 - 130%	102
	BH03_0.3-5	SE284685.005	%	60 - 130%	103
	BH14_0.4-0.5	SE284685.006	%	60 - 130%	106
d14-p-terphenyl (Surrogate)	BH09_0.3-0.5	SE284685.001	%	60 - 130%	103
	BH06_0.4-0.5	SE284685.003	%	60 - 130%	102
	BH03_0.3-5	SE284685.005	%	60 - 130%	105
	BH14_0.4-0.5	SE284685.006	%	60 - 130%	103

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH09_0.3-0.5	SE284685.001	%	70 - 130%	105
	BH09_1.0-1.2	SE284685.002	%	70 - 130%	101
	BH06_0.4-0.5	SE284685.003	%	70 - 130%	102
	BH06_1.0-1.1	SE284685.004	%	70 - 130%	105
	BH03_0.3-5	SE284685.005	%	70 - 130%	103
	BH14_0.4-0.5	SE284685.006	%	70 - 130%	106
	BH14_0.9-1.0	SE284685.007	%	70 - 130%	104
d14-p-terphenyl (Surrogate)	BH09_0.3-0.5	SE284685.001	%	70 - 130%	103
	BH09_1.0-1.2	SE284685.002	%	70 - 130%	105
	BH06_0.4-0.5	SE284685.003	%	70 - 130%	102
	BH06_1.0-1.1	SE284685.004	%	70 - 130%	104
	BH03_0.3-5	SE284685.005	%	70 - 130%	105
	BH14_0.4-0.5	SE284685.006	%	70 - 130%	103
	BH14_0.9-1.0	SE284685.007	%	70 - 130%	104
d5-nitrobenzene (Surrogate)	BH09_0.3-0.5	SE284685.001	%	70 - 130%	94
	BH09_1.0-1.2	SE284685.002	%	70 - 130%	92
	BH06_0.4-0.5	SE284685.003	%	70 - 130%	90
	BH06_1.0-1.1	SE284685.004	%	70 - 130%	94
	BH03_0.3-5	SE284685.005	%	70 - 130%	91
	BH14_0.4-0.5	SE284685.006	%	70 - 130%	91
	BH14_0.9-1.0	SE284685.007	%	70 - 130%	92

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH09_0.3-0.5	SE284685.001	%	60 - 130%	98
	BH06_0.4-0.5	SE284685.003	%	60 - 130%	97
	BH03_0.3-5	SE284685.005	%	60 - 130%	96
	BH14_0.4-0.5	SE284685.006	%	60 - 130%	97

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH09_0.3-0.5	SE284685.001	%	60 - 130%	83
	BH09_1.0-1.2	SE284685.002	%	60 - 130%	82
	BH06_0.4-0.5	SE284685.003	%	60 - 130%	83
	BH06_1.0-1.1	SE284685.004	%	60 - 130%	86
	BH03_0.3-5	SE284685.005	%	60 - 130%	83
	BH14_0.4-0.5	SE284685.006	%	60 - 130%	80
	BH14_0.9-1.0	SE284685.007	%	60 - 130%	77
d4-1,2-dichloroethane (Surrogate)	BH09_0.3-0.5	SE284685.001	%	60 - 130%	77
	BH09_1.0-1.2	SE284685.002	%	60 - 130%	72
	BH06_0.4-0.5	SE284685.003	%	60 - 130%	75
	BH06_1.0-1.1	SE284685.004	%	60 - 130%	79
	BH03_0.3-5	SE284685.005	%	60 - 130%	77
	BH14_0.4-0.5	SE284685.006	%	60 - 130%	73
	BH14_0.9-1.0	SE284685.007	%	60 - 130%	70

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 identifier 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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	BH09_0.3-0.5	SE284685.001	%	60 - 130%	79
	BH09_1.0-1.2	SE284685.002	%	60 - 130%	77
	BH06_0.4-0.5	SE284685.003	%	60 - 130%	79
	BH06_1.0-1.1	SE284685.004	%	60 - 130%	82
	BH03_0.3-5	SE284685.005	%	60 - 130%	79
	BH14_0.4-0.5	SE284685.006	%	60 - 130%	77
	BH14_0.9-1.0	SE284685.007	%	60 - 130%	74

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH09_0.3-0.5	SE284685.001	%	60 - 130%	83
	BH09_1.0-1.2	SE284685.002	%	60 - 130%	82
	BH06_0.4-0.5	SE284685.003	%	60 - 130%	83
	BH06_1.0-1.1	SE284685.004	%	60 - 130%	86
	BH03_0.3-5	SE284685.005	%	60 - 130%	83
	BH14_0.4-0.5	SE284685.006	%	60 - 130%	80
	BH14_0.9-1.0	SE284685.007	%	60 - 130%	77
d4-1,2-dichloroethane (Surrogate)	BH09_0.3-0.5	SE284685.001	%	60 - 130%	77
	BH09_1.0-1.2	SE284685.002	%	60 - 130%	72
	BH06_0.4-0.5	SE284685.003	%	60 - 130%	75
	BH06_1.0-1.1	SE284685.004	%	60 - 130%	79
	BH03_0.3-5	SE284685.005	%	60 - 130%	77
	BH14_0.4-0.5	SE284685.006	%	60 - 130%	73
	BH14_0.9-1.0	SE284685.007	%	60 - 130%	70
d8-toluene (Surrogate)	BH09_0.3-0.5	SE284685.001	%	60 - 130%	79
	BH09_1.0-1.2	SE284685.002	%	60 - 130%	77
	BH06_0.4-0.5	SE284685.003	%	60 - 130%	79
	BH06_1.0-1.1	SE284685.004	%	60 - 130%	82
	BH03_0.3-5	SE284685.005	%	60 - 130%	79
	BH14_0.4-0.5	SE284685.006	%	60 - 130%	77
	BH14_0.9-1.0	SE284685.007	%	60 - 130%	74

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 in Soil

Method: ME-(AU)-ENVJAN312

Sample Number	Parameter	Units	LOR	Result
LB351340.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB351309.001	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)	%	-	101

OP Pesticides in Soil

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result	
LB351309.001	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	
	Methodathion	mg/kg	0.5	<0.5	
	Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	109
		d14-p-terphenyl (Surrogate)	%	-	113

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

Sample Number	Parameter	Units	LOR	Result
LB351309.001	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
	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

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
LB351309.001	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	<0.8
Surrogates	d5-nitrobenzene (Surrogate)	%	-	94
	2-fluorobiphenyl (Surrogate)	%	-	109
	d14-p-terphenyl (Surrogate)	%	-	113

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB351309.001	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)	%	-	101

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB351333.001	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

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB351309.001	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

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	
LB351318.001	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		

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	
LB351318.001	Halogenated Aliphatics	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
	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
		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
	Nitrogenous Compounds	p-isopropyltoluene	mg/kg	0.1	<0.1
		n-butylbenzene	mg/kg	0.1	<0.1
		Acrylonitrile	mg/kg	0.1	<0.1
	Oxygenated Compounds	2-nitropropane	mg/kg	10	<10
		Acetone (2-propanone)	mg/kg	10	<10
		MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1
		Vinyl acetate*	mg/kg	10	<10
		MIBK (4-methyl-2-pentanone)	mg/kg	1	<1
	Polycyclic VOCs	2-hexanone (MBK)	mg/kg	5	<5
		Naphthalene (VOC)*	mg/kg	0.1	<0.1
Sulphonated	Carbon disulfide	mg/kg	0.5	<0.5	
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	82
d8-toluene (Surrogate)		%	-	84	
Bromofluorobenzene (Surrogate)		%	-	88	
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	

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result
LB351318.001	TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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 %
SE284625.033	LB351340.014	Mercury	mg/kg	0.05	0.10	0.10	79	0
SE284685.007	LB351340.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284625.033	LB351324.011	% Moisture	%w/w	1	19.2	17.1	35	12
SE284685.005	LB351324.022	% Moisture	%w/w	1	20.3	20.1	35	1
SE284765.002	LB351324.027	% Moisture	%w/w	1	13.3	14.0	37	5

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284625.033	LB351309.014	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	-	0.49	0.50	30	2

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284625.033	LB351309.014	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
		Methodathion	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	0.5	30	1
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284625.033	LB351309.014	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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 %
SE284625.033	LB351309.014	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	0.2	99	75
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	0.1	0.4	70	84 @
		Pyrene	mg/kg	0.1	0.2	0.4	67	77 @
		Benzo(a)anthracene	mg/kg	0.1	<0.1	0.2	114	49
		Chrysene	mg/kg	0.1	0.1	0.2	90	64
		Benzo(b&i)fluoranthene	mg/kg	0.1	<0.1	0.1	141	13
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0.2	105	61
		Benzo(a)pyrene	mg/kg	0.1	<0.1	0.2	97	69
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0.2	110	51
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(ghi)perylene	mg/kg	0.1	<0.1	0.1	123	34
		Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	0.3	157	30
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	0.3	100	47
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	0.4	108	21
		Total PAH (18)	mg/kg	0.8	<0.8	2.1	38	134 @
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	0
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284625.033	LB351309.014	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	-	0.49	0.50	30	2

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 %
SE284625.033	LB351333.014	Arsenic, As	mg/kg	1	5	5	50	2
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	8.4	9.9	35	17
		Copper, Cu	mg/kg	0.5	29	22	32	27
		Nickel, Ni	mg/kg	0.5	3.3	3.0	46	12
		Lead, Pb	mg/kg	1	53	42	32	24
		Zinc, Zn	mg/kg	2	99	130	32	27
SE284685.007	LB351333.024	Arsenic, As	mg/kg	1	5	5	50	0
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	10	11	35	1
		Copper, Cu	mg/kg	0.5	45	48	31	7
		Nickel, Ni	mg/kg	0.5	8.4	7.7	36	9
		Lead, Pb	mg/kg	1	30	31	33	2
		Zinc, Zn	mg/kg	2	220	160	31	30

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE284625.033	LB351309.014	TRH C10-C14	mg/kg	20	<20	<20	200	0
		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	<110	200	0
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]JAN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE284625.033	LB351309.014	TRH F Bands	TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE284685.006	LB351309.028		TRH C10-C14	mg/kg	20	<20	<20	200	0
			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	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		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	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0

VOC's in Soil

Method: ME-(AU)-[ENV]JAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE284685.007	LB351318.015	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	Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	200	0
			Aliphatics	Chloromethane	mg/kg	1	<1	<1	200
		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	Chlorobenzene	mg/kg	0.1	<0.1	<0.1	200	0
			Aromatics	Bromobenzene	mg/kg	0.1	<0.1	<0.1	200
		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	Benzene	mg/kg		0.1	<0.1	<0.1	200	0	
	Aromatic	Toluene		mg/kg	0.1	<0.1	<0.1	200	0
Ethylbenzene		mg/kg		0.1	<0.1	<0.1	200	0	

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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 %	
SE284685.007	LB351318.015	Monocyclic Aromatic	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	-	7.0	6.6	50	6
			d8-toluene (Surrogate)	mg/kg	-	7.4	7.2	50	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.7	7.4	50	3
		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	200	0
			Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3	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		

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE284685.007	LB351318.015	TRH C6-C10	mg/kg	25	<25	0	200	0	
			mg/kg	20	<20	0	200	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.0	6.6435123554	50	6
			d8-toluene (Surrogate)	mg/kg	-	7.4	7.1742291281	50	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.7	7.4266633022	50	3
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	0.0014040701	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	0	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]JAN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB351340.002	Mercury	mg/kg	0.05	0.23	0.2	80 - 120	115

OC Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB351309.002	Delta BHC	mg/kg	0.1	0.3	0.2	60 - 140	132
	Heptachlor	mg/kg	0.1	0.3	0.2	60 - 140	132
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	116
	Dieldrin	mg/kg	0.1	0.3	0.2	60 - 140	137
	Endrin	mg/kg	0.1	0.3	0.2	60 - 140	130
	p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	114
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.46	0.5	40 - 130	92

OP Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB351309.002	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.7	2	60 - 140	86	
	Diazinon (Dimpylate)	mg/kg	0.5	2.1	2	60 - 140	104	
	Dichlorvos	mg/kg	0.5	1.8	2	60 - 140	88	
	Ethion	mg/kg	0.2	1.7	2	60 - 140	84	
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	96
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	107

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB351309.002	Naphthalene	mg/kg	0.1	4.1	4	60 - 140	102	
	Acenaphthylene	mg/kg	0.1	3.9	4	60 - 140	97	
	Acenaphthene	mg/kg	0.1	4.1	4	60 - 140	103	
	Phenanthrene	mg/kg	0.1	4.5	4	60 - 140	114	
	Anthracene	mg/kg	0.1	4.5	4	60 - 140	112	
	Fluoranthene	mg/kg	0.1	5.2	4	60 - 140	130	
	Pyrene	mg/kg	0.1	5.2	4	60 - 140	131	
	Benzo(a)pyrene	mg/kg	0.1	3.6	4	60 - 140	91	
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	89
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	96
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	107	

PCBs in Soil

Method: ME-(AU)-[ENV]JAN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB351309.002	Arochlor 1260	mg/kg	0.1	0.5	0.4	60 - 140	123
Surrogates	TCMX (Surrogate)	mg/kg	-	0.46	0.5	40 - 130	92

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]JAN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB351333.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	107
	Cadmium, Cd	mg/kg	0.3	5.3	4.81	70 - 130	110
	Chromium, Cr	mg/kg	0.5	37	38.31	80 - 120	95
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	109
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	102
	Lead, Pb	mg/kg	1	91	89.9	80 - 120	101
	Zinc, Zn	mg/kg	2	280	273	80 - 120	103

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB351309.002	TRH C10-C14	mg/kg	20	220	200	60 - 140	112
TRH F Bands	TRH >C10-C16	mg/kg	25	220	200	60 - 140	112

VOC's in Soil

Method: ME-(AU)-[ENV]JAN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB351318.002	Halogenated	1,1-dichloroethene	mg/kg	0.1	3.6	5	60 - 140	72
	Aliphatics	1,2-dichloroethane	mg/kg	0.1	3.8	5	60 - 140	76
		Trichloroethene (Trichloroethylene, TCE)	mg/kg	0.1	3.8	5	60 - 140	76

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.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB351318.002	Halogenated	Chlorobenzene	mg/kg	0.1	3.4	5	60 - 140	68
	Monocyclic	Benzene	mg/kg	0.1	4.3	5	60 - 140	85
	Aromatic	Toluene	mg/kg	0.1	4.8	5	60 - 140	96
		Ethylbenzene	mg/kg	0.1	4.6	5	60 - 140	92
		m/p-xylene	mg/kg	0.2	9.1	10	60 - 140	91
		o-xylene	mg/kg	0.1	4.7	5	60 - 140	95
	Trihalomethan	Chloroform (THM)	mg/kg	0.1	4.2	5	60 - 140	84

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB351318.002	TRH C6-C10	mg/kg	25	70	92.5	60 - 140	75
	TRH C6-C9	mg/kg	20	58	80	60 - 140	73
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	42	62.5	60 - 140

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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE284625.024	LB351340.004	Mercury	mg/kg	0.05	0.20	<0.05	0.2	88

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%
SE284625.025	LB351309.027	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	0.2	133
		Heptachlor	mg/kg	0.1	<0.1	0.2	135
		Aldrin	mg/kg	0.1	<0.1	0.2	118
		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	0.2	136
		Endrin	mg/kg	0.1	<0.1	0.2	134
		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	0.2	122
		Endrin ketone	mg/kg	0.1	<0.1	-	-
		Methoxychlor	mg/kg	0.1	<0.1	-	-
		Mirex	mg/kg	0.1	<0.1	-	-
		Total OC Pesticides	mg/kg	0.1	<0.1	-	-
		Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	-	-
		Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	-	-
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.49	-	91

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%
SE284625.025	LB351309.027	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	2	86
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5	2	103
		Dichlorvos	mg/kg	0.5	<0.5	2	85
		Dimethoate	mg/kg	0.5	<0.5	-	-
		Ethion	mg/kg	0.2	<0.2	2	90
		Fenitrothion	mg/kg	0.2	<0.2	-	-
		Malathion	mg/kg	0.2	<0.2	-	-
		Methodathion	mg/kg	0.5	<0.5	-	-
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	-	-
		Total OP Pesticides*	mg/kg	1.7	<1.7	-	-
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	-	95
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	-	104

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%
SE284625.025	LB351309.027	Naphthalene	mg/kg	0.1	<0.1	4	98
		2-methylnaphthalene	mg/kg	0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	-	-
		Acenaphthylene	mg/kg	0.1	<0.1	4	97
		Acenaphthene	mg/kg	0.1	<0.1	4	98
		Fluorene	mg/kg	0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	<0.1	4	107
		Anthracene	mg/kg	0.1	<0.1	4	104
		Fluoranthene	mg/kg	0.1	<0.1	4	120

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 identifier 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	Original	Spike	Recovery%
SE284625.025	LB351309.027	Pyrene	mg/kg	0.1	<0.1	4	121
		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	4	89
		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/2*	TEQ (mg/kg)	0.2	<0.2	-	-
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	-	-
		Total PAH (18)	mg/kg	0.8	<0.8	-	-
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	-	88
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	-	95
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	-	104

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%
SE284625.025	LB351309.027	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	0.4	127
		Total PCBs	mg/kg	0.1	<0.1	-	-
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.49	-	91

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE284625.024	LB351333.004	Arsenic, As	mg/kg	1	51	6	50	90
		Cadmium, Cd	mg/kg	0.3	45	<0.3	50	91
		Chromium, Cr	mg/kg	0.5	56	8.2	50	96
		Copper, Cu	mg/kg	0.5	63	15	50	96
		Nickel, Ni	mg/kg	0.5	51	2.9	50	97
		Lead, Pb	mg/kg	1	64	19	50	89
		Zinc, Zn	mg/kg	2	80	36	50	88

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE284625.025	LB351309.027	TRH C10-C14	mg/kg	20	210	<20	200	105
		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	210	<110	-	-
		TRH >C10-C40 Total (F bands)	mg/kg	210	210	<210	-	-
	TRH F	TRH >C10-C16	mg/kg	25	210	<25	200	105
	Bands	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	210	<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%
SE284685.001	LB351318.004	Fumigants	2,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	-
			1,2-dichloropropane	mg/kg	0.1	<0.1	<0.1	-
			cis-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	-
			trans-1,3-dichloropropene	mg/kg	0.1	<0.1	<0.1	-
			1,2-dibromoethane (EDB)	mg/kg	0.1	<0.1	<0.1	-
	Halogenated	Dichlorodifluoromethane (CFC-12)	mg/kg	1	<1	<1	-	-
	Aliphatics	Chloromethane	mg/kg	1	<1	<1	-	-
		Vinyl chloride (Chloroethene)	mg/kg	0.1	<0.1	<0.1	-	-
		Bromomethane	mg/kg	1	<1	<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 identifier 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%
SE284685.001	LB351318.004	Halogenated	Chloroethane	mg/kg	1	<1	<1	-
		Aliphatics	Trichlorofluoromethane	mg/kg	1	<1	<1	-
			1,1-dichloroethene	mg/kg	0.1	4.1	<0.1	5
			Iodomethane	mg/kg	5	<5	<5	-
			Dichloromethane (Methylene chloride)	mg/kg	0.5	<0.5	<0.5	-
			Allyl chloride	mg/kg	0.1	<0.1	<0.1	-
			trans-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	-
			1,1-dichloroethane	mg/kg	0.1	<0.1	<0.1	-
			cis-1,2-dichloroethene	mg/kg	0.1	<0.1	<0.1	-
			Bromochloromethane	mg/kg	0.1	<0.1	<0.1	-
			1,2-dichloroethane	mg/kg	0.1	4.5	<0.1	5
			1,1,1-trichloroethane	mg/kg	0.1	<0.1	<0.1	-
			1,1-dichloropropene	mg/kg	0.1	<0.1	<0.1	-
			Carbon tetrachloride	mg/kg	0.1	<0.1	<0.1	-
			Dibromomethane	mg/kg	0.1	<0.1	<0.1	-
			Trichloroethene (Trichloroethylene, TCE)	mg/kg	0.1	4.5	<0.1	5
			1,1,2-trichloroethane	mg/kg	0.1	<0.1	<0.1	-
			1,3-dichloropropane	mg/kg	0.1	<0.1	<0.1	-
			Tetrachloroethene (Perchloroethylene, PCE)	mg/kg	0.1	<0.1	<0.1	-
			1,1,1,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	-
			1,1,2,2-tetrachloroethane	mg/kg	0.1	<0.1	<0.1	-
			1,2,3-trichloropropane	mg/kg	0.1	<0.1	<0.1	-
			trans-1,4-dichloro-2-butene	mg/kg	1	<1	<1	-
			1,2-dibromo-3-chloropropane	mg/kg	0.1	<0.1	<0.1	-
			Hexachlorobutadiene	mg/kg	0.1	<0.1	<0.1	-
		Halogenated	Chlorobenzene	mg/kg	0.1	4.0	<0.1	5
		Aromatics	Bromobenzene	mg/kg	0.1	<0.1	<0.1	-
			2-chlorotoluene	mg/kg	0.1	<0.1	<0.1	-
			4-chlorotoluene	mg/kg	0.1	<0.1	<0.1	-
			1,3-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	-
			1,4-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	-
			1,2-dichlorobenzene	mg/kg	0.1	<0.1	<0.1	-
			1,2,4-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	-
			1,2,3-trichlorobenzene	mg/kg	0.1	<0.1	<0.1	-
		Monocyclic	Benzene	mg/kg	0.1	5.2	<0.1	5
		Aromatic	Toluene	mg/kg	0.1	5.7	<0.1	5
			Ethylbenzene	mg/kg	0.1	5.4	<0.1	5
			m/p-xylene	mg/kg	0.2	11	<0.2	10
			Styrene (Vinyl benzene)	mg/kg	0.1	<0.1	<0.1	-
			o-xylene	mg/kg	0.1	5.7	<0.1	5
			Isopropylbenzene (Cumene)	mg/kg	0.1	<0.1	<0.1	-
			n-propylbenzene	mg/kg	0.1	<0.1	<0.1	-
			1,3,5-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	-
			tert-butylbenzene	mg/kg	0.1	<0.1	<0.1	-
			1,2,4-trimethylbenzene	mg/kg	0.1	<0.1	<0.1	-
			sec-butylbenzene	mg/kg	0.1	<0.1	<0.1	-
			p-isopropyltoluene	mg/kg	0.1	<0.1	<0.1	-
			n-butylbenzene	mg/kg	0.1	<0.1	<0.1	-
		Nitrogenous	Acrylonitrile	mg/kg	0.1	<0.1	<0.1	-
		Compounds	2-nitropropane	mg/kg	10	<10	<10	-
		Oxygenated	Acetone (2-propanone)	mg/kg	10	<10	<10	-
		Compounds	MtBE (Methyl-tert-butyl ether)	mg/kg	0.1	<0.1	<0.1	-
			Vinyl acetate*	mg/kg	10	<10	<10	-
			MEK (2-butanone)	mg/kg	10	<10	<10	-
			MIBK (4-methyl-2-pentanone)	mg/kg	1	<1	<1	-
			2-hexanone (MBK)	mg/kg	5	<5	<5	-
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-
		Sulphonated	Carbon disulfide	mg/kg	0.5	<0.5	<0.5	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.4	7.7	-
			d8-toluene (Surrogate)	mg/kg	-	9.1	7.9	-
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	8.3	-

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 identifier 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%
SE284685.001	LB351318.004	Totals	Total Other Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	22	<1.8	-	-
			Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	22	<1.8	-	-
			Total BTEX*	mg/kg	0.6	33	<0.6	-	-
			Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	<3.0	<3.0	-	-
			Total Volatile Chlorinated Hydrocarbons*	mg/kg	3	<3.0	<3.0	-	-
		Trihalomethanes	Total VOC*	mg/kg	24	56	<24	-	-
			Total Xylenes*	mg/kg	0.3	17	<0.3	-	-
			Chloroform (THM)	mg/kg	0.1	5.0	<0.1	5	99
			Bromodichloromethane (THM)	mg/kg	0.1	<0.1	<0.1	-	-
			Dibromochloromethane (THM)	mg/kg	0.1	<0.1	<0.1	-	-
Bromoform (THM)	mg/kg	0.1	<0.1	<0.1	-	-			

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE284685.001	LB351318.004		TRH C6-C10	mg/kg	25	81	<25	92.5	87
			TRH C6-C9	mg/kg	20	69	<20	80	86
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.4	7.7	-	84
			d8-toluene (Surrogate)	mg/kg	-	9.1	7.9	-	91
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	8.3	-	76
		VPH F	Benzene (F0)	mg/kg	0.1	5.2	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	48	<25	62.5	77

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf

- * 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.
- 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

SE285047 R0

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Samples 7

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SGS Reference **SE285047 R0**
Date Received 20 Jun 2025
Date Reported 30 Jun 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 (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Sample counts by matrix	7 Soil	Type of documentation received	COC
Date documentation received	23/6/2025 @09:32a	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	4.2°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice	Samples clearly labelled	Yes
Complete documentation received	Yes		

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
BH04_0.3-0.5	SE285047.001	LB352484	18 Jun 2025	20 Jun 2025	18 Jun 2026	26 Jun 2025	18 Jun 2026	30 Jun 2025
BH05_0.1-0.4	SE285047.002	LB352484	16 Jun 2025	20 Jun 2025	16 Jun 2026	26 Jun 2025	16 Jun 2026	30 Jun 2025
BH08M_0.3-0.5	SE285047.003	LB352484	16 Jun 2025	20 Jun 2025	16 Jun 2026	26 Jun 2025	16 Jun 2026	30 Jun 2025
BH07_0.3-0.5	SE285047.005	LB352484	18 Jun 2025	20 Jun 2025	18 Jun 2026	26 Jun 2025	18 Jun 2026	30 Jun 2025
BH01M_0.3-0.5	SE285047.007	LB352484	17 Jun 2025	20 Jun 2025	17 Jun 2026	26 Jun 2025	17 Jun 2026	30 Jun 2025

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH04_0.3-0.5	SE285047.001	LB352125	18 Jun 2025	20 Jun 2025	16 Jul 2025	24 Jun 2025	16 Jul 2025	27 Jun 2025
BH05_0.1-0.4	SE285047.002	LB352125	16 Jun 2025	20 Jun 2025	14 Jul 2025	24 Jun 2025	14 Jul 2025	27 Jun 2025
BH08M_0.3-0.5	SE285047.003	LB352125	16 Jun 2025	20 Jun 2025	14 Jul 2025	24 Jun 2025	14 Jul 2025	27 Jun 2025
BH08M_0.8-1.0	SE285047.004	LB352125	16 Jun 2025	20 Jun 2025	14 Jul 2025	24 Jun 2025	14 Jul 2025	27 Jun 2025
BH07_0.3-0.5	SE285047.005	LB352125	18 Jun 2025	20 Jun 2025	16 Jul 2025	24 Jun 2025	16 Jul 2025	27 Jun 2025
BH07_0.6-0.8	SE285047.006	LB352125	18 Jun 2025	20 Jun 2025	16 Jul 2025	24 Jun 2025	16 Jul 2025	27 Jun 2025
BH01M_0.3-0.5	SE285047.007	LB352125	17 Jun 2025	20 Jun 2025	15 Jul 2025	24 Jun 2025	15 Jul 2025	27 Jun 2025

Moisture Content

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH04_0.3-0.5	SE285047.001	LB352123	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	29 Jun 2025	25 Jun 2025
BH05_0.1-0.4	SE285047.002	LB352123	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	29 Jun 2025	25 Jun 2025
BH08M_0.3-0.5	SE285047.003	LB352123	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	29 Jun 2025	25 Jun 2025
BH08M_0.8-1.0	SE285047.004	LB352123	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	29 Jun 2025	25 Jun 2025
BH07_0.3-0.5	SE285047.005	LB352123	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	29 Jun 2025	25 Jun 2025
BH07_0.6-0.8	SE285047.006	LB352123	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	29 Jun 2025	25 Jun 2025
BH01M_0.3-0.5	SE285047.007	LB352123	17 Jun 2025	20 Jun 2025	01 Jul 2025	24 Jun 2025	29 Jun 2025	25 Jun 2025

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH04_0.3-0.5	SE285047.001	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH05_0.1-0.4	SE285047.002	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH08M_0.3-0.5	SE285047.003	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH08M_0.8-1.0	SE285047.004	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH07_0.3-0.5	SE285047.005	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH07_0.6-0.8	SE285047.006	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	27 Jun 2025
BH01M_0.3-0.5	SE285047.007	LB352121	17 Jun 2025	20 Jun 2025	01 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH04_0.3-0.5	SE285047.001	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH05_0.1-0.4	SE285047.002	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH08M_0.3-0.5	SE285047.003	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH08M_0.8-1.0	SE285047.004	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	27 Jun 2025
BH07_0.3-0.5	SE285047.005	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH07_0.6-0.8	SE285047.006	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	27 Jun 2025
BH01M_0.3-0.5	SE285047.007	LB352121	17 Jun 2025	20 Jun 2025	01 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 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
BH04_0.3-0.5	SE285047.001	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH05_0.1-0.4	SE285047.002	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH08M_0.3-0.5	SE285047.003	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH08M_0.8-1.0	SE285047.004	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH07_0.3-0.5	SE285047.005	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH07_0.6-0.8	SE285047.006	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH01M_0.3-0.5	SE285047.007	LB352121	17 Jun 2025	20 Jun 2025	01 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH04_0.3-0.5	SE285047.001	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH05_0.1-0.4	SE285047.002	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH08M_0.3-0.5	SE285047.003	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025
BH08M_0.8-1.0	SE285047.004	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	27 Jun 2025
BH07_0.3-0.5	SE285047.005	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 2025

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

PCBs in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH07_0.6-0.8	SE285047.006	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	27 Jun 2025
BH01M_0.3-0.5	SE285047.007	LB352121	17 Jun 2025	20 Jun 2025	01 Jul 2025	24 Jun 2025	03 Aug 2025	25 Jun 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
BH04_0.3-0.5	SE285047.001	LB352124	18 Jun 2025	20 Jun 2025	15 Dec 2025	24 Jun 2025	15 Dec 2025	26 Jun 2025
BH05_0.1-0.4	SE285047.002	LB352124	16 Jun 2025	20 Jun 2025	13 Dec 2025	24 Jun 2025	13 Dec 2025	26 Jun 2025
BH08M_0.3-0.5	SE285047.003	LB352124	16 Jun 2025	20 Jun 2025	13 Dec 2025	24 Jun 2025	13 Dec 2025	26 Jun 2025
BH08M_0.8-1.0	SE285047.004	LB352124	16 Jun 2025	20 Jun 2025	13 Dec 2025	24 Jun 2025	13 Dec 2025	26 Jun 2025
BH07_0.3-0.5	SE285047.005	LB352124	18 Jun 2025	20 Jun 2025	15 Dec 2025	24 Jun 2025	15 Dec 2025	26 Jun 2025
BH07_0.6-0.8	SE285047.006	LB352124	18 Jun 2025	20 Jun 2025	15 Dec 2025	24 Jun 2025	15 Dec 2025	26 Jun 2025
BH01M_0.3-0.5	SE285047.007	LB352124	17 Jun 2025	20 Jun 2025	14 Dec 2025	24 Jun 2025	14 Dec 2025	26 Jun 2025

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
BH04_0.3-0.5	SE285047.001	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	27 Jun 2025
BH05_0.1-0.4	SE285047.002	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	27 Jun 2025
BH08M_0.3-0.5	SE285047.003	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	27 Jun 2025
BH08M_0.8-1.0	SE285047.004	LB352121	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	03 Aug 2025	27 Jun 2025
BH07_0.3-0.5	SE285047.005	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	27 Jun 2025
BH07_0.6-0.8	SE285047.006	LB352121	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	03 Aug 2025	27 Jun 2025
BH01M_0.3-0.5	SE285047.007	LB352121	17 Jun 2025	20 Jun 2025	01 Jul 2025	24 Jun 2025	03 Aug 2025	27 Jun 2025

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH04_0.3-0.5	SE285047.001	LB352122	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	02 Jul 2025	26 Jun 2025
BH05_0.1-0.4	SE285047.002	LB352122	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	30 Jun 2025	26 Jun 2025
BH08M_0.3-0.5	SE285047.003	LB352122	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	30 Jun 2025	26 Jun 2025
BH08M_0.8-1.0	SE285047.004	LB352122	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	30 Jun 2025	26 Jun 2025
BH07_0.3-0.5	SE285047.005	LB352122	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	02 Jul 2025	26 Jun 2025
BH07_0.6-0.8	SE285047.006	LB352122	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	02 Jul 2025	26 Jun 2025
BH01M_0.3-0.5	SE285047.007	LB352122	17 Jun 2025	20 Jun 2025	01 Jul 2025	24 Jun 2025	01 Jul 2025	26 Jun 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
BH04_0.3-0.5	SE285047.001	LB352122	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	02 Jul 2025	26 Jun 2025
BH05_0.1-0.4	SE285047.002	LB352122	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	30 Jun 2025	26 Jun 2025
BH08M_0.3-0.5	SE285047.003	LB352122	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	30 Jun 2025	26 Jun 2025
BH08M_0.8-1.0	SE285047.004	LB352122	16 Jun 2025	20 Jun 2025	30 Jun 2025	24 Jun 2025	30 Jun 2025	26 Jun 2025
BH07_0.3-0.5	SE285047.005	LB352122	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	02 Jul 2025	26 Jun 2025
BH07_0.6-0.8	SE285047.006	LB352122	18 Jun 2025	20 Jun 2025	02 Jul 2025	24 Jun 2025	02 Jul 2025	26 Jun 2025
BH01M_0.3-0.5	SE285047.007	LB352122	17 Jun 2025	20 Jun 2025	01 Jul 2025	24 Jun 2025	01 Jul 2025	26 Jun 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 identifier 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)	BH04_0.3-0.5	SE285047.001	%	60 - 130%	97
	BH05_0.1-0.4	SE285047.002	%	60 - 130%	97
	BH08M_0.3-0.5	SE285047.003	%	60 - 130%	96
	BH07_0.3-0.5	SE285047.005	%	60 - 130%	98
	BH01M_0.3-0.5	SE285047.007	%	60 - 130%	94

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH04_0.3-0.5	SE285047.001	%	60 - 130%	101
	BH05_0.1-0.4	SE285047.002	%	60 - 130%	102
	BH08M_0.3-0.5	SE285047.003	%	60 - 130%	99
	BH07_0.3-0.5	SE285047.005	%	60 - 130%	101
	BH01M_0.3-0.5	SE285047.007	%	60 - 130%	96
d14-p-terphenyl (Surrogate)	BH04_0.3-0.5	SE285047.001	%	60 - 130%	94
	BH05_0.1-0.4	SE285047.002	%	60 - 130%	92
	BH08M_0.3-0.5	SE285047.003	%	60 - 130%	91
	BH07_0.3-0.5	SE285047.005	%	60 - 130%	92
	BH01M_0.3-0.5	SE285047.007	%	60 - 130%	90

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH04_0.3-0.5	SE285047.001	%	70 - 130%	101
	BH05_0.1-0.4	SE285047.002	%	70 - 130%	102
	BH08M_0.3-0.5	SE285047.003	%	70 - 130%	99
	BH08M_0.8-1.0	SE285047.004	%	70 - 130%	100
	BH07_0.3-0.5	SE285047.005	%	70 - 130%	101
	BH07_0.6-0.8	SE285047.006	%	70 - 130%	94
	BH01M_0.3-0.5	SE285047.007	%	70 - 130%	96
	BH01M_0.3-0.5	SE285047.007	%	70 - 130%	96
d14-p-terphenyl (Surrogate)	BH04_0.3-0.5	SE285047.001	%	70 - 130%	94
	BH05_0.1-0.4	SE285047.002	%	70 - 130%	92
	BH08M_0.3-0.5	SE285047.003	%	70 - 130%	91
	BH08M_0.8-1.0	SE285047.004	%	70 - 130%	90
	BH07_0.3-0.5	SE285047.005	%	70 - 130%	92
	BH07_0.6-0.8	SE285047.006	%	70 - 130%	85
	BH01M_0.3-0.5	SE285047.007	%	70 - 130%	90
	BH01M_0.3-0.5	SE285047.007	%	70 - 130%	90
d5-nitrobenzene (Surrogate)	BH04_0.3-0.5	SE285047.001	%	70 - 130%	93
	BH05_0.1-0.4	SE285047.002	%	70 - 130%	94
	BH08M_0.3-0.5	SE285047.003	%	70 - 130%	90
	BH08M_0.8-1.0	SE285047.004	%	70 - 130%	90
	BH07_0.3-0.5	SE285047.005	%	70 - 130%	92
	BH07_0.6-0.8	SE285047.006	%	70 - 130%	87
	BH01M_0.3-0.5	SE285047.007	%	70 - 130%	88
	BH01M_0.3-0.5	SE285047.007	%	70 - 130%	88

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH04_0.3-0.5	SE285047.001	%	60 - 130%	97
	BH05_0.1-0.4	SE285047.002	%	60 - 130%	97
	BH08M_0.3-0.5	SE285047.003	%	60 - 130%	96
	BH07_0.3-0.5	SE285047.005	%	60 - 130%	98
	BH01M_0.3-0.5	SE285047.007	%	60 - 130%	94

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH04_0.3-0.5	SE285047.001	%	60 - 130%	85
	BH05_0.1-0.4	SE285047.002	%	60 - 130%	89
	BH08M_0.3-0.5	SE285047.003	%	60 - 130%	98
	BH08M_0.8-1.0	SE285047.004	%	60 - 130%	96
	BH07_0.3-0.5	SE285047.005	%	60 - 130%	93
	BH07_0.6-0.8	SE285047.006	%	60 - 130%	86
	BH01M_0.3-0.5	SE285047.007	%	60 - 130%	91
d4-1,2-dichloroethane (Surrogate)	BH04_0.3-0.5	SE285047.001	%	60 - 130%	71
	BH05_0.1-0.4	SE285047.002	%	60 - 130%	80
	BH08M_0.3-0.5	SE285047.003	%	60 - 130%	85

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.

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VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	BH08M_0.8-1.0	SE285047.004	%	60 - 130%	83
	BH07_0.3-0.5	SE285047.005	%	60 - 130%	83
	BH07_0.6-0.8	SE285047.006	%	60 - 130%	74
	BH01M_0.3-0.5	SE285047.007	%	60 - 130%	81
d8-toluene (Surrogate)	BH04_0.3-0.5	SE285047.001	%	60 - 130%	70
	BH05_0.1-0.4	SE285047.002	%	60 - 130%	80
	BH08M_0.3-0.5	SE285047.003	%	60 - 130%	86
	BH08M_0.8-1.0	SE285047.004	%	60 - 130%	84
	BH07_0.3-0.5	SE285047.005	%	60 - 130%	84
	BH07_0.6-0.8	SE285047.006	%	60 - 130%	75
	BH01M_0.3-0.5	SE285047.007	%	60 - 130%	81

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH04_0.3-0.5	SE285047.001	%	60 - 130%	85
	BH05_0.1-0.4	SE285047.002	%	60 - 130%	89
	BH08M_0.3-0.5	SE285047.003	%	60 - 130%	98
	BH08M_0.8-1.0	SE285047.004	%	60 - 130%	96
	BH07_0.3-0.5	SE285047.005	%	60 - 130%	93
	BH07_0.6-0.8	SE285047.006	%	60 - 130%	86
	BH01M_0.3-0.5	SE285047.007	%	60 - 130%	91
d4-1,2-dichloroethane (Surrogate)	BH04_0.3-0.5	SE285047.001	%	60 - 130%	71
	BH05_0.1-0.4	SE285047.002	%	60 - 130%	80
	BH08M_0.3-0.5	SE285047.003	%	60 - 130%	85
	BH08M_0.8-1.0	SE285047.004	%	60 - 130%	83
	BH07_0.3-0.5	SE285047.005	%	60 - 130%	83
	BH07_0.6-0.8	SE285047.006	%	60 - 130%	74
d8-toluene (Surrogate)	BH01M_0.3-0.5	SE285047.007	%	60 - 130%	81
	BH04_0.3-0.5	SE285047.001	%	60 - 130%	70
	BH05_0.1-0.4	SE285047.002	%	60 - 130%	80
	BH08M_0.3-0.5	SE285047.003	%	60 - 130%	86
	BH08M_0.8-1.0	SE285047.004	%	60 - 130%	84
	BH07_0.3-0.5	SE285047.005	%	60 - 130%	84
	BH07_0.6-0.8	SE285047.006	%	60 - 130%	75
BH01M_0.3-0.5	SE285047.007	%	60 - 130%	81	

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 in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result
LB352125.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB352121.001	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)	%	-	95

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	
LB352121.001	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	
	Methodathion	mg/kg	0.5	<0.5	
	Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	99
		d14-p-terphenyl (Surrogate)	%	-	94

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB352121.001	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
	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

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
LB352121.001	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	<0.8
Surrogates	d5-nitrobenzene (Surrogate)	%	-	94
	2-fluorobiphenyl (Surrogate)	%	-	99
	d14-p-terphenyl (Surrogate)	%	-	94

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB352121.001	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)	%	-	95

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB352124.001	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

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB352121.001	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

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	
LB352122.001	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

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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		
LB352122.001	Halogenated Aliphatics	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	
		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)	%	-	87		
	d8-toluene (Surrogate)	%	-	87		
	Bromofluorobenzene (Surrogate)	%	-	103		
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		

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result
LB352122.001	TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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 %
SE285090.003	LB352125.014	Mercury	mg/kg	0.05	0.03755836820	0.0268506990	185	0
SE285099.001	LB352125.022	Mercury	mg/kg	0.05	0.01671090180	0.0157922972	200	0

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285090.003	LB352123.011	% Moisture	%w/w	1	4.0	4.3	54	6
SE285099.001	LB352123.019	% Moisture	%w/w	1	18.5	22.3	35	18

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285090.003	LB352121.014	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	LB352121.024	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.44	0.48
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: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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)-IENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285090.003	LB352121.024	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	-	0.44	0.48	30	8
SE285099.001	LB352121.025	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	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.46	0.46	30	0

OP Pesticides in Soil

Method: ME-(AU)-IENVJAN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %		
SE285090.003	LB352121.014	Azinphos-methyl (Guthion)	mg/kg	0.2	0.0056013658	0	200	0		
		Bromophos Ethyl	mg/kg	0.2	8.21662957572.8004470270	0	200	0		
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	0.0106670384	0	200	0		
		Diazinon (Dimpylate)	mg/kg	0.5	6.6297717484	0	200	0		
		Dichlorvos	mg/kg	0.5	0.00060362460.0007092506	0	200	0		
		Dimethoate	mg/kg	0.5	0.00109594660.0005165195	0	200	0		
		Ethion	mg/kg	0.2	0	0	200	0		
		Fenitrothion	mg/kg	0.2	0.00022764860.0003387255	0	200	0		
		Malathion	mg/kg	0.2	0.00362263150.0063464556	0	200	0		
		Methodathion	mg/kg	0.5	0.00112079390.0021198243	0	200	0		
		Parathion-ethyl (Parathion)	mg/kg	0.2	0.00012368940.0004165709	0	200	0		
		Total OP Pesticides*	mg/kg	1.7	0	0	200	0		
		Surrogates	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.44907719270.4816908030	0	30	7
				d14-p-terphenyl (Surrogate)	mg/kg	-	0.43326748730.4728512851	0	30	9
			LB352121.024	Azinphos-methyl (Guthion)	mg/kg	0.2	0.00560136580.0043408490	0	200	0
				Bromophos Ethyl	mg/kg	0.2	8.21662957570.0005816893	0	200	0
				Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	0.0106670384	0	200	0
				Diazinon (Dimpylate)	mg/kg	0.5	6.62977174840.0001445954	0	200	0
				Dichlorvos	mg/kg	0.5	0.00060362460.0016035176	0	200	0
				Dimethoate	mg/kg	0.5	0.00109594660.0038872481	0	200	0
		Ethion	mg/kg	0.2	0	0	200	0		
		Fenitrothion	mg/kg	0.2	0.00022764860.0004692327	0	200	0		
		Malathion	mg/kg	0.2	0.00362263150.0088369143	0	200	0		
		Methodathion	mg/kg	0.5	0.00112079390.0028027044	0	200	0		
		Parathion-ethyl (Parathion)	mg/kg	0.2	0.00012368940.0001093543	0	200	0		
		Total OP Pesticides*	mg/kg	1.7	0	0	200	0		

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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

OP Pesticides in Soil (continued)

Method: ME-(AU)-IENVJAN20

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285090.003	LB352121.024	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.44907719270.4955848985		30	10
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.43326748730.4756165274		30	9

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-IENVJAN20

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %		
SE285090.003	LB352121.014	Naphthalene	mg/kg	0.1	<0.1	<0.1	176	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	0.2	0.2	75	18		
		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	1.4	1.1	38	26		
		Anthracene	mg/kg	0.1	0.3	0.2	70	14		
		Fluoranthene	mg/kg	0.1	2.6	2.8	34	8		
		Pyrene	mg/kg	0.1	2.8	3.0	33	7		
		Benzo(a)anthracene	mg/kg	0.1	1.4	1.7	37	16		
		Chrysene	mg/kg	0.1	1.5	1.8	36	17		
		Benzo(b&j)fluoranthene	mg/kg	0.1	1.1	1.5	37	29		
		Benzo(k)fluoranthene	mg/kg	0.1	1.4	1.6	37	13		
		Benzo(a)pyrene	mg/kg	0.1	1.7	2.0	35	17		
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.9	1.1	40	19		
		Dibenzo(ah)anthracene	mg/kg	0.1	0.2	0.2	83	21		
		Benzo(ghi)perylene	mg/kg	0.1	1.2	1.2	38	7		
		Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	2.4	2.8	18	17		
		Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	2.4	2.8	18	17		
		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	2.4	2.8	22	17		
		Total PAH (18)	mg/kg	0.8	17	18	31	11		
		Surrogates		d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	30	6
				2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	7
				d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	9
		SE285099.001	LB352121.025	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	<0.8	200	0		
Surrogates				d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	0
				2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
				d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	1

PCBs in Soil

Method: ME-(AU)-IENVJAN20

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285090.003	LB352121.014	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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

PCBs in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE285090.003	LB352121.014	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	LB352121.024	TCMX (Surrogate)	mg/kg	-	0.47	0.48	30	4
			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
			TCMX (Surrogate)	mg/kg	-	0.47	0.48	30	3
SE285099.001	LB352121.025	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	
		TCMX (Surrogate)	mg/kg	-	0.46	0.46	30	0	

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 %
SE285090.003	LB352124.014	Arsenic, As	mg/kg	1	1	2	97	12
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	1.4	1.9	60	26
		Copper, Cu	mg/kg	0.5	16	20	33	22
		Nickel, Ni	mg/kg	0.5	0.7	0.8	97	16
		Lead, Pb	mg/kg	1	150	190	31	21
		Zinc, Zn	mg/kg	2	100	120	32	17
		SE285099.001	LB352124.022	Arsenic, As	mg/kg	1	5	5
Cadmium, Cd	mg/kg			0.3	<0.3	<0.3	200	0
Chromium, Cr	mg/kg			0.5	11	13	34	17
Copper, Cu	mg/kg			0.5	9.7	9.2	35	5
Nickel, Ni	mg/kg			0.5	1.6	1.2	66	23
Lead, Pb	mg/kg			1	13	13	38	2
Zinc, Zn	mg/kg			2	16	13	43	21

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE285090.003	LB352121.014	TRH C10-C14	mg/kg	20	<20	<20	200	0	
		TRH C15-C28	mg/kg	45	120	210	57	56	
		TRH C29-C36	mg/kg	45	130	160	61	21	
		TRH C37-C40	mg/kg	100	<100	<100	200	0	
		TRH C10-C36 Total	mg/kg	110	250	380	65	40	
		TRH >C10-C40 Total (F bands)	mg/kg	210	230	350	104	42	
		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	230	350	62	42
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
			TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	158	0
			TRH C29-C36	mg/kg	45	87	71	87	20
		SE285099.001	LB352121.022	TRH C37-C40	mg/kg	100	<100	<100	200
TRH C10-C36 Total	mg/kg			110	<110	<110	169	0	
TRH >C10-C40 Total (F bands)	mg/kg			210	<210	<210	200	0	
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	110	<90	123	17

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285099.001	LB352121.022	TRH F Bands	mg/kg	120	<120	<120	200	0

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE285090.003	LB352122.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	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
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.0	8.6	50	5
			d8-toluene (Surrogate)	mg/kg	-	9.1	8.5	50	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.2	9.4	50	8
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE285099.001	LB352122.022	Fumigants	2,2-dichloropropane	mg/kg	0.1	0	0.0002121905	200	0
			1,2-dichloropropane	mg/kg	0.1	0	0	200	0
			cis-1,3-dichloropropene	mg/kg	0.1	4.4804219404	0.0006187889	200	0
			trans-1,3-dichloropropene	mg/kg	0.1	0.00021952230	0.0009281453	200	0
			1,2-dibromoethane (EDB)	mg/kg	0.1	8.04466135563	7.909174467	200	0
		Halogenated	Dichlorodifluoromethane (CFC-12)	mg/kg	1	0	0.0003161784	200	0
		Aliphatics	Chloromethane	mg/kg	1	0.01360950700	0.185471473	200	0
			Vinyl chloride (Chloroethene)	mg/kg	0.1	0.00243242630	0.0270354840	200	0
			Bromomethane	mg/kg	1	0.03684415560	0.0325196759	200	0
			Chloroethane	mg/kg	1	0.0025622544	0	200	0
			Trichlorofluoromethane	mg/kg	1	0	0.0001049464	200	0
			1,1-dichloroethene	mg/kg	0.1	0.00058617040	0.0006565750	200	0
			Iodomethane	mg/kg	5	0	0	200	0
			Dichloromethane (Methylene chloride)	mg/kg	0.5	0.02223771560	0.0211978134	200	0
			Allyl chloride	mg/kg	0.1	0.00333381060	0.0064474423	200	0
			trans-1,2-dichloroethene	mg/kg	0.1	0	0	200	0
			1,1-dichloroethane	mg/kg	0.1	0	0	200	0
			cis-1,2-dichloroethene	mg/kg	0.1	0.00364111220	0.0032725749	200	0
			Bromochloromethane	mg/kg	0.1	0	0.0026306587	200	0
			1,2-dichloroethane	mg/kg	0.1	0.00183517310	0.0018802573	200	0
			1,1,1-trichloroethane	mg/kg	0.1	0	0	200	0
			1,1-dichloropropene	mg/kg	0.1	0.00025511148	7.980728665	200	0
			Carbon tetrachloride	mg/kg	0.1	0	0	200	0
			Dibromomethane	mg/kg	0.1	0	0	200	0
			Trichloroethene (Trichloroethylene, TCE)	mg/kg	0.1	0.00095413910	0.0009749476	200	0
			1,1,2-trichloroethane	mg/kg	0.1	0	0	200	0
			1,3-dichloropropane	mg/kg	0.1	0	0.0004497322	200	0
			Tetrachloroethene (Perchloroethylene, PCE)	mg/kg	0.1	0.00020660480	0.0001811438	200	0
			1,1,1,2-tetrachloroethane	mg/kg	0.1	0	0	200	0
			1,1,2,2-tetrachloroethane	mg/kg	0.1	0.00038857050	0.0003486426	200	0
			1,2,3-trichloropropane	mg/kg	0.1	8.2645748563	0	200	0
			trans-1,4-dichloro-2-butene	mg/kg	1	0.00126062670	0.0011649718	200	0
			1,2-dibromo-3-chloropropane	mg/kg	0.1	0	0.0015362147	200	0
			Hexachlorobutadiene	mg/kg	0.1	2.3559155041	0	200	0
		Halogenated	Chlorobenzene	mg/kg	0.1	0.00052673290	0.0003856258	200	0
		Aromatics	Bromobenzene	mg/kg	0.1	0.00027116620	0.0008595987	200	0
			2-chlorotoluene	mg/kg	0.1	0.00028087640	0.0003088992	200	0
			4-chlorotoluene	mg/kg	0.1	0.00012833166	6.751103594	200	0
			1,3-dichlorobenzene	mg/kg	0.1	4.29898567822	7.264823276	200	0
			1,4-dichlorobenzene	mg/kg	0.1	0.00033112740	0.0002869038	200	0
			1,2-dichlorobenzene	mg/kg	0.1	0.00030786860	0.0002667514	200	0
			1,2,4-trichlorobenzene	mg/kg	0.1	0	0	200	0
			1,2,3-trichlorobenzene	mg/kg	0.1	3.02854609208	4.093491537	200	0
		Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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)-IENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE285099.001	LB352122.022	Monocyclic	m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
		Aromatic	o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.9	8.6	50	8
			d8-toluene (Surrogate)	mg/kg	-	7.9	8.9	50	11
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.9	9.8	50	10
			Totals	Total Chlorinated Hydrocarbons VIC EPA*	mg/kg	1.8	0.03709429860.0597670424		200
			Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Chlorinated Hydrocarbons - subset A*	mg/kg	3	0.00041103250.0023974765		200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
		Trihalomethanes	Chloroform (THM)	mg/kg	0.1	0.00362309800.0032803222		200	0
			Bromodichloromethane (THM)	mg/kg	0.1	7.67793062815.6299913622		200	0
			Dibromochloromethane (THM)	mg/kg	0.1	0.00037504390.0003935384		200	0
			Bromoform (THM)	mg/kg	0.1	0	0	200	0

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-IENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE285090.003	LB352122.014	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	-	9.0	8.6	50	5
			d8-toluene (Surrogate)	mg/kg	-	9.1	8.5	50	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.2	9.4	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		
SE285099.001	LB352122.022	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	-	7.9	8.6	50	8
			d8-toluene (Surrogate)	mg/kg	-	7.9	8.9	50	11
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.9	9.8	50	10
		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		

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 %
LB352125.002	Mercury	mg/kg	0.05	0.21	0.2	80 - 120	106

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB352121.002	Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	93
	Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	82
	Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	90
	Dieldrin	mg/kg	0.1	0.2	0.2	60 - 140	96
	Endrin	mg/kg	0.1	0.1	0.2	60 - 140	75
	p,p'-DDT	mg/kg	0.1	0.1	0.2	60 - 140	64
Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.48	0.5	40 - 130	96

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB352121.002	Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.0	2	60 - 140	101	
	Diazinon (Dimpylate)	mg/kg	0.5	2.3	2	60 - 140	117	
	Dichlorvos	mg/kg	0.5	1.9	2	60 - 140	97	
	Ethion	mg/kg	0.2	2.1	2	60 - 140	107	
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	101
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	95	

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB352121.002	Naphthalene	mg/kg	0.1	4.1	4	60 - 140	102	
	Acenaphthylene	mg/kg	0.1	4.1	4	60 - 140	102	
	Acenaphthene	mg/kg	0.1	4.1	4	60 - 140	103	
	Phenanthrene	mg/kg	0.1	4.4	4	60 - 140	110	
	Anthracene	mg/kg	0.1	4.3	4	60 - 140	107	
	Fluoranthene	mg/kg	0.1	4.3	4	60 - 140	108	
	Pyrene	mg/kg	0.1	4.3	4	60 - 140	107	
	Benzo(a)pyrene	mg/kg	0.1	4.4	4	60 - 140	111	
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	93
	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	101	
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	95	

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB352121.002	Arochlor 1260	mg/kg	0.1	0.4	0.4	60 - 140	93
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.48	0.5	40 - 130

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 %
LB352124.002	Arsenic, As	mg/kg	1	330	318.22	80 - 120	104
	Cadmium, Cd	mg/kg	0.3	3.6	4.81	70 - 130	75
	Chromium, Cr	mg/kg	0.5	35	38.31	80 - 120	92
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	108
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	101
	Lead, Pb	mg/kg	1	93	89.9	80 - 120	103
	Zinc, Zn	mg/kg	2	270	273	80 - 120	100

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB352121.002	TRH C10-C14	mg/kg	20	200	200	60 - 140	98
	TRH F Bands	TRH >C10-C16	mg/kg	25	190	200	60 - 140

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB352122.002	Halogenated	1,1-dichloroethene	mg/kg	0.1	3.9	5	60 - 140	78
	Aliphatics	1,2-dichloroethane	mg/kg	0.1	4.7	5	60 - 140	95
		Trichloroethene (Trichloroethylene, TCE)	mg/kg	0.1	4.7	5	60 - 140	93

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.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB352122.002	Halogenated	Chlorobenzene	mg/kg	0.1	4.1	5	60 - 140	82
	Monocyclic	Benzene	mg/kg	0.1	4.4	5	60 - 140	89
		Aromatic	Toluene	mg/kg	0.1	4.6	5	60 - 140
	Aromatic	Ethylbenzene	mg/kg	0.1	4.7	5	60 - 140	93
		m/p-xylene	mg/kg	0.2	9.1	10	60 - 140	91
		o-xylene	mg/kg	0.1	4.7	5	60 - 140	94
	Trihalomethan	Chloroform (THM)	mg/kg	0.1	5.1	5	60 - 140	103

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB352122.002	TRH C6-C10	mg/kg	25	73	92.5	60 - 140	79
	TRH C6-C9	mg/kg	20	59	80	60 - 140	74
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	45	62.5	60 - 140

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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285047.001	LB352125.004	Mercury	mg/kg	0.05	0.20	<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%
SE285047.001	LB352121.004	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	86
		Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	80
		Aldrin	mg/kg	0.1	0.2	<0.1	0.2	78
		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	95
		Endrin	mg/kg	0.1	0.1	<0.1	0.2	72
		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	0.2	62
		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	1.0	<0.1	-	-
		Total OC VIC EPA IWRG621	mg/kg	0.1	1.0	<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	0.48	-	94

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285047.001	LB352121.004	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	1.9	<0.2	2	94
		Diazinon (Dimpylate)	mg/kg	0.5	2.1	<0.5	2	107
		Dichlorvos	mg/kg	0.5	1.8	<0.5	2	88
		Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
		Ethion	mg/kg	0.2	2.0	<0.2	2	100
		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	7.8	<1.7	-	-
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	98
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	93

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285047.001	LB352121.004	Naphthalene	mg/kg	0.1	3.9	<0.1	4	97
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Acenaphthylene	mg/kg	0.1	3.9	<0.1	4	97
		Acenaphthene	mg/kg	0.1	4.0	<0.1	4	99
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	4.2	<0.1	4	105
		Anthracene	mg/kg	0.1	4.0	<0.1	4	101
		Fluoranthene	mg/kg	0.1	4.2	<0.1	4	105

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 identifier 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%	
SE285047.001	LB352121.004	Pyrene	mg/kg	0.1	4.2	<0.1	4	104	
		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	32	<0.8	-	-	
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	-	89
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	98
	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	93		

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285047.001	LB352121.004	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	0.4	<0.1	0.4	89
		Total PCBs	mg/kg	0.1	0.4	<0.1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.47	0.48	-

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285047.001	LB352124.004	Arsenic, As	mg/kg	1	48	7	50	82
		Cadmium, Cd	mg/kg	0.3	42	<0.3	50	83
		Chromium, Cr	mg/kg	0.5	53	13	50	80
		Copper, Cu	mg/kg	0.5	58	16	50	83
		Nickel, Ni	mg/kg	0.5	47	3.0	50	88
		Lead, Pb	mg/kg	1	57	19	50	76
		Zinc, Zn	mg/kg	2	52	9.9	50	85

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE285047.001	LB352121.004	TRH C10-C14	mg/kg	20	190	<20	200	93	
		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	190	<110	-	-	
		TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-	
		TRH F	TRH >C10-C16	mg/kg	25	180	<25	200	92
		Bands	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	180	<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%	
SE285047.001	LB352122.004	Monocyclic Aromatic	Benzene	mg/kg	0.1	5.3	<0.1	5	106
			Toluene	mg/kg	0.1	5.8	<0.1	5	115
			Ethylbenzene	mg/kg	0.1	5.9	<0.1	5	117
			m/p-xylene	mg/kg	0.2	12	<0.2	10	117
			o-xylene	mg/kg	0.1	6.3	<0.1	5	125
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
			Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	7.1	-
		d8-toluene (Surrogate)		mg/kg	-	9.3	7.0	-	93
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.6	8.5	-	86

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 identifier 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%
SE285047.001	LB352122.004	Totals						
		Total BTEX*	mg/kg	0.6	35	<0.6	-	-
		Total Xylenes*	mg/kg	0.3	18	<0.3	-	-

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%	
SE285047.001	LB352122.004	TRH C6-C10	mg/kg	25	92	<25	92.5	99	
		TRH C6-C9	mg/kg	20	77	<20	80	97	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	7.1	-	88
			d8-toluene (Surrogate)	mg/kg	-	9.3	7.0	-	93
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.6	8.5	-	86
		VPH F	Benzene (F0)	mg/kg	0.1	5.3	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	57	<25	62.5	91

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

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: $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

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 identifier 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.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf

- * 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.
- 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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CLIENT DETAILS

LABORATORY DETAILS

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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:

Surrogate	VOCs in Water	1 item
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SAMPLE SUMMARY

Sample counts by matrix	7 Water	Type of documentation received	COC
Date documentation received	07/07/2025@05:53F	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	9.8°C
Sample container provider	SGS	Turnaround time requested	Three Days
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

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

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Porth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH01M	SE285800.001	LB353601	07 Jul 2025	07 Jul 2025	04 Aug 2025	10 Jul 2025	04 Aug 2025	10 Jul 2025
BH03M	SE285800.002	LB353601	07 Jul 2025	07 Jul 2025	04 Aug 2025	10 Jul 2025	04 Aug 2025	10 Jul 2025
BH08M	SE285800.003	LB353601	07 Jul 2025	07 Jul 2025	04 Aug 2025	10 Jul 2025	04 Aug 2025	10 Jul 2025
GWQD01	SE285800.004	LB353601	07 Jul 2025	07 Jul 2025	04 Aug 2025	10 Jul 2025	04 Aug 2025	10 Jul 2025
R01	SE285800.005	LB353601	07 Jul 2025	07 Jul 2025	04 Aug 2025	10 Jul 2025	04 Aug 2025	10 Jul 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
BH01M	SE285800.001	LB353482	07 Jul 2025	07 Jul 2025	14 Jul 2025	08 Jul 2025	17 Aug 2025	10 Jul 2025
BH03M	SE285800.002	LB353482	07 Jul 2025	07 Jul 2025	14 Jul 2025	08 Jul 2025	17 Aug 2025	10 Jul 2025
BH08M	SE285800.003	LB353482	07 Jul 2025	07 Jul 2025	14 Jul 2025	08 Jul 2025	17 Aug 2025	10 Jul 2025
GWQD01	SE285800.004	LB353482	07 Jul 2025	07 Jul 2025	14 Jul 2025	08 Jul 2025	17 Aug 2025	10 Jul 2025
R01	SE285800.005	LB353482	07 Jul 2025	07 Jul 2025	14 Jul 2025	08 Jul 2025	17 Aug 2025	10 Jul 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
BH01M	SE285800.001	LB353463	07 Jul 2025	07 Jul 2025	04 Aug 2025	08 Jul 2025	05 Aug 2025	10 Jul 2025
BH03M	SE285800.002	LB353463	07 Jul 2025	07 Jul 2025	04 Aug 2025	08 Jul 2025	05 Aug 2025	10 Jul 2025
BH08M	SE285800.003	LB353463	07 Jul 2025	07 Jul 2025	04 Aug 2025	08 Jul 2025	05 Aug 2025	10 Jul 2025

Total Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN077/AN287

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH01M	SE285800.001	LB353494	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	08 Jul 2025
BH03M	SE285800.002	LB353494	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	08 Jul 2025
BH08M	SE285800.003	LB353494	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	08 Jul 2025

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH01M	SE285800.001	LB353459	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	08 Jul 2025
BH03M	SE285800.002	LB353459	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	08 Jul 2025
BH08M	SE285800.003	LB353459	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	08 Jul 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
BH01M	SE285800.001	LB353577	07 Jul 2025	07 Jul 2025	03 Jan 2026	09 Jul 2025	03 Jan 2026	09 Jul 2025
BH03M	SE285800.002	LB353577	07 Jul 2025	07 Jul 2025	03 Jan 2026	09 Jul 2025	03 Jan 2026	09 Jul 2025
BH08M	SE285800.003	LB353577	07 Jul 2025	07 Jul 2025	03 Jan 2026	09 Jul 2025	03 Jan 2026	09 Jul 2025
GWQD01	SE285800.004	LB353577	07 Jul 2025	07 Jul 2025	03 Jan 2026	09 Jul 2025	03 Jan 2026	09 Jul 2025
R01	SE285800.005	LB353577	07 Jul 2025	07 Jul 2025	03 Jan 2026	09 Jul 2025	03 Jan 2026	09 Jul 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
BH01M	SE285800.001	LB353482	07 Jul 2025	07 Jul 2025	14 Jul 2025	08 Jul 2025	17 Aug 2025	10 Jul 2025
BH03M	SE285800.002	LB353482	07 Jul 2025	07 Jul 2025	14 Jul 2025	08 Jul 2025	17 Aug 2025	10 Jul 2025
BH08M	SE285800.003	LB353482	07 Jul 2025	07 Jul 2025	14 Jul 2025	08 Jul 2025	17 Aug 2025	10 Jul 2025
GWQD01	SE285800.004	LB353482	07 Jul 2025	07 Jul 2025	14 Jul 2025	08 Jul 2025	17 Aug 2025	10 Jul 2025
R01	SE285800.005	LB353482	07 Jul 2025	07 Jul 2025	14 Jul 2025	08 Jul 2025	17 Aug 2025	10 Jul 2025

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH01M	SE285800.001	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	11 Jul 2025
BH03M	SE285800.002	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	11 Jul 2025
BH08M	SE285800.003	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	11 Jul 2025
GWQD01	SE285800.004	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	10 Jul 2025
R01	SE285800.005	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	10 Jul 2025
TRIP BLANK	SE285800.006	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	10 Jul 2025
TRIP SPIKE	SE285800.007	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	10 Jul 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
BH01M	SE285800.001	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	10 Jul 2025
BH03M	SE285800.002	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	10 Jul 2025
BH08M	SE285800.003	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	10 Jul 2025
GWQD01	SE285800.004	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	10 Jul 2025

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

Volatile Petroleum Hydrocarbons in Water (continued)

Method: ME-(AU)-ENVJAN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
R01	SE285800.005	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	10 Jul 2025
TRIP BLANK	SE285800.006	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	11 Jul 2025
TRIP SPIKE	SE285800.007	LB353474	07 Jul 2025	07 Jul 2025	21 Jul 2025	08 Jul 2025	21 Jul 2025	11 Jul 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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH01M	SE285800.001	%	40 - 130%	68
	BH03M	SE285800.002	%	40 - 130%	76
	BH08M	SE285800.003	%	40 - 130%	80
d14-p-terphenyl (Surrogate)	BH01M	SE285800.001	%	40 - 130%	72
	BH03M	SE285800.002	%	40 - 130%	78
	BH08M	SE285800.003	%	40 - 130%	80
d5-nitrobenzene (Surrogate)	BH01M	SE285800.001	%	40 - 130%	66
	BH03M	SE285800.002	%	40 - 130%	72
	BH08M	SE285800.003	%	40 - 130%	76

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
(13C2_PFTeDA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	10 - 150%	68
	BH03M	SE285800.002	%	10 - 150%	71
	BH08M	SE285800.003	%	10 - 150%	65
(13C2-4:2 FTS) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	40 - 300%	234
	BH03M	SE285800.002	%	40 - 300%	176
	BH08M	SE285800.003	%	40 - 300%	157
(13C2-6:2 FTS) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	40 - 300%	88
	BH03M	SE285800.002	%	40 - 300%	95
	BH08M	SE285800.003	%	40 - 300%	87
(13C2-8:2 FTS) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	40 - 300%	100
	BH03M	SE285800.002	%	40 - 300%	77
	BH08M	SE285800.003	%	40 - 300%	70
(13C2-PFDoA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	10 - 150%	75
	BH03M	SE285800.002	%	10 - 150%	65
	BH08M	SE285800.003	%	10 - 150%	53
(13C3-PFBS) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	40 - 150%	84
	BH03M	SE285800.002	%	40 - 150%	84
	BH08M	SE285800.003	%	40 - 150%	82
(13C3-PFHxS) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	40 - 150%	93
	BH03M	SE285800.002	%	40 - 150%	91
	BH08M	SE285800.003	%	40 - 150%	87
(13C4_PFOA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	40 - 150%	84
	BH03M	SE285800.002	%	40 - 150%	85
	BH08M	SE285800.003	%	40 - 150%	78
(13C4-PFBA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	5 - 150%	87
	BH03M	SE285800.002	%	5 - 150%	85
	BH08M	SE285800.003	%	5 - 150%	80
(13C4-PFHpA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	40 - 150%	84
	BH03M	SE285800.002	%	40 - 150%	85
	BH08M	SE285800.003	%	40 - 150%	81
(13C5-PFHxA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	40 - 150%	95
	BH03M	SE285800.002	%	40 - 150%	96
	BH08M	SE285800.003	%	40 - 150%	91
(13C5-PFPeA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	35 - 150%	78
	BH03M	SE285800.002	%	35 - 150%	78
	BH08M	SE285800.003	%	35 - 150%	71
(13C6-PFDA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	40 - 150%	71
	BH03M	SE285800.002	%	40 - 150%	63
	BH08M	SE285800.003	%	40 - 150%	49
(13C7-PFUdA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	30 - 150%	57
	BH03M	SE285800.002	%	30 - 150%	58
	BH08M	SE285800.003	%	30 - 150%	46
(13C8-PFOS) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	40 - 150%	79
	BH03M	SE285800.002	%	40 - 150%	77
	BH08M	SE285800.003	%	40 - 150%	60
(13C8-PFOSA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	20 - 150%	74
	BH03M	SE285800.002	%	20 - 150%	61
	BH08M	SE285800.003	%	20 - 150%	50
(13C9-PFNA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	40 - 150%	81

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 identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples (continued)

Method: ME-(AU)-[ENV]AN404

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
(13C9-PFNAA) Isotopically Labelled Internal Recovery Standard	BH03M	SE285800.002	%	40 - 150%	79
	BH08M	SE285800.003	%	40 - 150%	71
(D3-N-MeFOSA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	10 - 150%	45
	BH03M	SE285800.002	%	10 - 150%	43
	BH08M	SE285800.003	%	10 - 150%	44
(D3-N-MeFOSAA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	30 - 170%	48
	BH03M	SE285800.002	%	30 - 170%	50
	BH08M	SE285800.003	%	30 - 170%	47
(D5-N-EiFOSA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	10 - 150%	51
	BH03M	SE285800.002	%	10 - 150%	51
	BH08M	SE285800.003	%	10 - 150%	44
(D5-N-EiFOSAA) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	20 - 150%	54
	BH03M	SE285800.002	%	20 - 150%	56
	BH08M	SE285800.003	%	20 - 150%	48
(D7-N-MeFOSE) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	10 - 150%	58
	BH03M	SE285800.002	%	10 - 150%	58
	BH08M	SE285800.003	%	10 - 150%	53
(D9-N-EiFOSE) Isotopically Labelled Internal Recovery Standard	BH01M	SE285800.001	%	10 - 150%	62
	BH03M	SE285800.002	%	10 - 150%	64
	BH08M	SE285800.003	%	10 - 150%	56

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH01M	SE285800.001	%	40 - 130%	104
	BH03M	SE285800.002	%	40 - 130%	103
	BH08M	SE285800.003	%	40 - 130%	103
	GWQD01	SE285800.004	%	40 - 130%	103
	R01	SE285800.005	%	40 - 130%	102
	TRIP BLANK	SE285800.006	%	40 - 130%	97
	TRIP SPIKE	SE285800.007	%	40 - 130%	98
	d4-1,2-dichloroethane (Surrogate)	BH01M	SE285800.001	%	40 - 130%
d4-1,2-dichloroethane (Surrogate)	BH03M	SE285800.002	%	40 - 130%	86
	BH08M	SE285800.003	%	40 - 130%	104
	GWQD01	SE285800.004	%	40 - 130%	86
	R01	SE285800.005	%	40 - 130%	88
	TRIP BLANK	SE285800.006	%	40 - 130%	90
	TRIP SPIKE	SE285800.007	%	40 - 130%	130 †
	d8-toluene (Surrogate)	BH01M	SE285800.001	%	40 - 130%
d8-toluene (Surrogate)	BH03M	SE285800.002	%	40 - 130%	91
	BH08M	SE285800.003	%	40 - 130%	92
	GWQD01	SE285800.004	%	40 - 130%	92
	R01	SE285800.005	%	40 - 130%	91
	TRIP BLANK	SE285800.006	%	40 - 130%	89
	TRIP SPIKE	SE285800.007	%	40 - 130%	107

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH01M	SE285800.001	%	40 - 130%	104
	BH03M	SE285800.002	%	40 - 130%	103
	BH08M	SE285800.003	%	40 - 130%	103
	GWQD01	SE285800.004	%	40 - 130%	103
	R01	SE285800.005	%	40 - 130%	102
d4-1,2-dichloroethane (Surrogate)	BH01M	SE285800.001	%	60 - 130%	83
	BH03M	SE285800.002	%	60 - 130%	86
	BH08M	SE285800.003	%	60 - 130%	104
	GWQD01	SE285800.004	%	60 - 130%	86
	R01	SE285800.005	%	60 - 130%	88
d8-toluene (Surrogate)	BH01M	SE285800.001	%	40 - 130%	92
	BH03M	SE285800.002	%	40 - 130%	91
	BH08M	SE285800.003	%	40 - 130%	92
	GWQD01	SE285800.004	%	40 - 130%	92
	R01	SE285800.005	%	40 - 130%	91

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
LB353601.001	Mercury	mg/L	0.0001	<0.0001

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB353482.001	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)	%	-
2-fluorobiphenyl (Surrogate)		%	-	86
d14-p-terphenyl (Surrogate)		%	-	84

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR	Result
LB353463.001	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 (PFTTrDA)	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 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 Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN077/AN287

Sample Number	Parameter	Units	LOR
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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.

Total Cyanide in water by Discrete Analyser (continued)

Method: ME-(AU)-[ENV]AN077/AN287

Sample Number	Parameter	Units	LOR	Result
LB353494.001	Total Cyanide	mg/L	0.004	<0.004

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result
LB353459.001	Total Phenols	mg/L	0.05	<0.05

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB353577.001	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 Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB353482.001	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

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	
LB353474.001	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
		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
		cis-1,4-dichloro-2-butene	µg/L	1	<1
		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		

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)-ENVJAN433

Sample Number	Parameter	Units	LOR	Result	
LB353474.001	Halogenated Aliphatics	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
	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)	%	-	85
		d8-toluene (Surrogate)	%	-	87
		Bromofluorobenzene (Surrogate)	%	-	100
	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)-ENVJAN433

Sample Number	Parameter	Units	LOR	Result	
LB353474.001	TRH C6-C9	µg/L	40	<40	
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	85
		d8-toluene (Surrogate)	%	-	87
		Bromofluorobenzene (Surrogate)	%	-	100

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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 (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285828.003	LB353601.014	Mercury	µg/L	0.0001	<0.0001	<0.0001	131	0

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285800.003	LB353482.025	Naphthalene	µg/L	0.1	<0.1	0	200	0
		2-methylnaphthalene	µg/L	0.1	<0.1	0	200	0
		1-methylnaphthalene	µg/L	0.1	<0.1	0	200	0
		Acenaphthylene	µg/L	0.1	<0.1	0	200	0
		Acenaphthene	µg/L	0.1	<0.1	0	200	0
		Fluorene	µg/L	0.1	<0.1	0	200	0
		Phenanthrene	µg/L	0.1	<0.1	0	200	0
		Anthracene	µg/L	0.1	<0.1	0	200	0
		Fluoranthene	µg/L	0.1	<0.1	0	200	0
		Pyrene	µg/L	0.1	<0.1	0	200	0
		Benzo(a)anthracene	µg/L	0.1	<0.1	0	200	0
		Chrysene	µg/L	0.1	<0.1	0	200	0
		Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	0	200	0
		Benzo(k)fluoranthene	µg/L	0.1	<0.1	0	200	0
		Benzo(a)pyrene	µg/L	0.1	<0.1	0	200	0
		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	0	200	0
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1	0	200	0
		Benzo(ghi)perylene	µg/L	0.1	<0.1	0	200	0
		Surrogates						
		d5-nitrobenzene (Surrogate)	µg/L	-	0.4	0.38	30	0
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.4	30	0
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.4	30	0

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285800.001	LB353463.011	Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	200	0
		Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.02	0.02	200	10
		Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.01	0.01	200	13
		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
		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-Methylperfluorooctane sulfonamide (N-MeFOSA)	µg/L	0.01	<0.01	<0.01	200	0
		N-Ethylperfluorooctane 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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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]JAN404

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285800.001	LB353463.011	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	13
		Sum of PFAS B	µg/L	0.01	<0.01	<0.01	200	0
		Sum of PFAS C	µg/L	0.01	0.02	0.02	200	10
		Sum of Positive PFAS	µg/L	0.01	0.04	0.03	200	11
		(13C4-PFBA) Isotopically Labelled Internal Recovery	%	-	87	97	200	11
		(13C5-PFPeA) Isotopically Labelled Internal Recovery	%	-	78	85	200	9
		(13C5-PFHxA) Isotopically Labelled Internal Recovery	%	-	95	106	200	11
		(13C4-PFHpA) Isotopically Labelled Internal Recovery	%	-	84	95	200	11
		(13C4_PFOA) Isotopically Labelled Internal Recovery	%	-	84	94	200	11
		(13C9-PFNA) Isotopically Labelled Internal Recovery	%	-	81	86	200	6
		(13C6-PFDA) Isotopically Labelled Internal Recovery	%	-	71	72	200	1
		(13C7-PFUDa) Isotopically Labelled Internal Recovery	%	-	57	59	200	4
		(13C2-PFDoA) Isotopically Labelled Internal Recovery	%	-	75	78	200	4
		(13C2_PFTeDA) Isotopically Labelled Internal Recovery	%	-	68	72	200	6
		(13C3-PFBS) Isotopically Labelled Internal Recovery	%	-	84	98	200	15
		(13C3-PFHxS) Isotopically Labelled Internal Recovery	%	-	93	105	200	12
		(13C8-PFOS) Isotopically Labelled Internal Recovery	%	-	79	86	200	9
		(13C8-PFOA) Isotopically Labelled Internal Recovery	%	-	74	85	200	14
		(D3-N-MeFOSAA) Isotopically Labelled Internal	%	-	48	51	200	7
		(D5-N-EtFOSAA) Isotopically Labelled Internal Recovery	%	-	54	57	200	5
		(13C2-4:2 FTS) Isotopically Labelled Internal Recovery	%	-	234	278	200	17
		(13C2-6:2 FTS) Isotopically Labelled Internal Recovery	%	-	88	107	200	19
		(13C2-8:2 FTS) Isotopically Labelled Internal Recovery	%	-	100	111	200	10
		(D7-N-MeFOSE) Isotopically Labelled Internal Recovery	%	-	58	66	200	13
		(D9-N-EtFOSE) Isotopically Labelled Internal Recovery	%	-	62	69	200	12
		(D3-N-MeFOSA) Isotopically Labelled Internal Recovery	%	-	45	56	200	23
		(D5-N-EtFOSA) Isotopically Labelled Internal Recovery	%	-	51	57	200	12

Total Phenolics in Water

Method: ME-(AU)-[ENV]JAN295

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285774.003	LB353459.026	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0
SE285793.001	LB353459.031	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0
SE285800.002	LB353459.014	Total Phenols	mg/L	0.05	<0.05	<0.05	200	0

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]JAN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285800.004	LB353577.014	Arsenic	µg/L	1	1	2	81	4
		Cadmium	µg/L	0.1	<0.1	<0.1	144	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	<1	2	98	52
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	4	5	37	7
		Zinc	µg/L	5	<5	<5	200	0
SE285829.010	LB353577.024	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 Water

Method: ME-(AU)-[ENV]JAN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE285785.011	LB353482.026	TRH C10-C14	µg/L	50	NVL	NVL	NVL	NVL	
		TRH C15-C28	µg/L	200	NVL	NVL	NVL	NVL	
		TRH C29-C36	µg/L	200	NVL	NVL	NVL	NVL	
		TRH C37-C40	µg/L	200	NVL	NVL	NVL	NVL	
		TRH C10-C40	µg/L	320	NVL	NVL	NVL	NVL	
		TRH F Bands	TRH >C10-C16	µg/L	60	NVL	NVL	NVL	NVL
		TRH >C10-C16 - Naphthalene (F2)	µg/L	60	NVL	NVL	NVL	NVL	

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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

TRH (Total Recoverable Hydrocarbons) in Water (continued)

Method: ME-(AU)-IENVJAN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285785.011	LB353482.026	TRH F Bands	TRH >C16-C34 (F3)	µg/L	500	NVL	NVL	NVL	NVL
			TRH >C34-C40 (F4)	µg/L	500	NVL	NVL	NVL	NVL
SE285800.003	LB353482.025		TRH C10-C14	µg/L	50	<50	<50	186	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	171	0
			TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	171	0
			TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
			TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

VOCs in Water

Method: ME-(AU)-IENVJAN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE285731.003	LB353474.029	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	0.6	<0.5	152	17
			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
			cis-1,4-dichloro-2-butene	µg/L	1	<1	<1	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	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE285731.003	LB353474.029	Monocyclic Aromatic	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 Compounds	Acrylonitrile	µg/L	0.5	<0.5	<0.5	200	0
			2-nitropropane	µg/L	100	<100	<100	200	0
		Oxygenated Compounds	Acetone (2-propanone)	µg/L	10	<10	<10	200	0
			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	<2	<2	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.8	10.7	30	19
			d8-toluene (Surrogate)	µg/L	-	9.1	9.1	30	0
			Bromofluorobenzene (Surrogate)	µg/L	-	10.2	10.3	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	<0.5	<0.5	200	0
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		
SE285800.004	LB353474.023	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
			Toluene	µg/L	0.5	1.2	1.2	71	2
		Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0	
		m/p-xylene	µg/L	1	2	2	85	14	
		o-xylene	µg/L	0.5	0.7	0.7	107	0	
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	168	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.6	11.5	30	29
			d8-toluene (Surrogate)	µg/L	-	9.2	9.2	30	0
			Bromofluorobenzene (Surrogate)	µg/L	-	10.3	10.3	30	1
		Totals	Total BTEX	µg/L	3	4	4	112	8

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-ENVJAN433

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %	
SE285800.004	LB353474.023	TRH C6-C10	µg/L	50	<50	43.2119392697	147	0	
			µg/L	40	<40	39.7811733515	131	0	
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.6	11.5013100615	30	29
			d8-toluene (Surrogate)	µg/L	-	9.2	9.1764055646	30	0
			Bromofluorobenzene (Surrogate)	µg/L	-	10.3	10.3283848255	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	0.1786277425	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	39.389716147C	158	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.

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %	
LB353482.002	Naphthalene	µg/L	0.1	39	40	60 - 140	97	
	Acenaphthylene	µg/L	0.1	44	40	60 - 140	109	
	Acenaphthene	µg/L	0.1	42	40	60 - 140	106	
	Phenanthrene	µg/L	0.1	43	40	60 - 140	109	
	Anthracene	µg/L	0.1	41	40	60 - 140	102	
	Fluoranthene	µg/L	0.1	43	40	60 - 140	107	
	Pyrene	µg/L	0.1	47	40	60 - 140	119	
	Benzo(a)pyrene	µg/L	0.1	45	40	60 - 140	114	
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.4	0.5	40 - 130	76
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	76
d14-p-terphenyl (Surrogate)		µg/L	-	0.4	0.5	40 - 130	78	

Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Samples

Method: ME-(AU)-[ENV]AN404

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353463.002	Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.16	0.2	40 - 160	82
	Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.22	0.2	40 - 160	108
	Perfluorononanoic acid (PFNA)	µg/L	0.01	0.21	0.2	40 - 160	106
	Perfluorodecanoic acid (PFDA)	µg/L	0.01	0.21	0.2	40 - 160	107
	Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	0.20	0.2	40 - 160	100
	Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	0.18	0.2	40 - 160	89
	Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	0.16	0.2	40 - 160	78
	Perfluorooctane sulfonamide (FOSA)	µg/L	0.01	0.17	0.2	40 - 160	87

Total Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN077/AN287

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353494.002	Total Cyanide	mg/L	0.004	0.023	0.025	80 - 120	92

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353459.002	Total Phenols	mg/L	0.05	0.20	0.2	80 - 120	101

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353577.002	Arsenic	µg/L	1	20	20	80 - 120	98
	Cadmium	µg/L	0.1	21	20	80 - 120	106
	Chromium	µg/L	1	21	20	80 - 120	106
	Copper	µg/L	1	22	20	80 - 120	109
	Lead	µg/L	1	20	20	80 - 120	102
	Nickel	µg/L	1	21	20	80 - 120	106
	Zinc	µg/L	5	21	20	80 - 120	106

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353482.002	TRH C10-C14	µg/L	50	710	1000	60 - 140	71
	TRH F Bands	µg/L	60	720	1000	60 - 140	72

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %		
LB353474.002	Halogenated	1,1-dichloroethene	µg/L	0.5	37	45.45	60 - 140	82	
		Aliphatics	1,2-dichloroethane	µg/L	0.5	34	45.45	60 - 140	75
			Trichloroethene (Trichloroethylene, TCE)	µg/L	0.5	54	45.45	60 - 140	118
	Halogenated	Chlorobenzene	µg/L	0.5	43	45.45	60 - 140	94	
	Monocyclic	Benzene	µg/L	0.5	32	25	60 - 140	127	
		Aromatic	Toluene	µg/L	0.5	32	25	60 - 140	129
	Aromatic	Ethylbenzene	µg/L	0.5	30	25	60 - 140	121	
		m/p-xylene	µg/L	1	63	50	60 - 140	126	
		o-xylene	µg/L	0.5	32	25	60 - 140	126	
	Trihalomethan	Chloroform (THM)	µg/L	0.5	38	45.45	60 - 140	83	

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.

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB353474.002	TRH C6-C10	µg/L	50	420	400	60 - 140	105
	TRH C6-C9	µg/L	40	380	350	60 - 140	110

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 identifier 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(Porth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285800.001	LB353601.004	Mercury	mg/L	0.0001	0.0017	<0.0001	0.008	87

Total Cyanide in water by Discrete Analyser

Method: ME-(AU)-[ENV]AN077/AN287

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285800.003	LB353494.010	Total Cyanide	mg/L	0.004	0.024	<0.004	0.025	90

Total Phenolics in Water

Method: ME-(AU)-[ENV]AN295

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285718.001	LB353459.004	Total Phenols	mg/L	0.05	0.20	<0.05	0.2	99

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE285847.003	LB353577.004	Arsenic	µg/L	1	20	<1	20	100
		Cadmium	µg/L	0.1	22	<0.1	20	109
		Chromium	µg/L	1	22	<1	20	108
		Copper	µg/L	1	24	1	20	112
		Lead	µg/L	1	20	<1	20	101
		Nickel	µg/L	1	22	<1	20	111
		Zinc	µg/L	5	24	<5	20	125

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number	Parameter	Units	LOR	Original	Spike	Recovery%	
SE285731.001	LB353474.031	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	Dichlorodifluoromethane (CFC-12)	µg/L	5	<5	-	-
			Aliphatics	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	97
		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	79
		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	130	
		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	-	-	
		cis-1,4-dichloro-2-butene	µg/L	1	<1	-	-	
		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	-	-			

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 identifier 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%	
SE285731.001	LB353474.031	Halogenated	Hexachlorobutadiene	µg/L	0.5	<0.5	-	-
		Halogenated	Chlorobenzene	µg/L	0.5	<0.5	45.45	101
		Aromatics	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	Benzene	µg/L	0.5	<0.5	25	100
		Aromatic	Toluene	µg/L	0.5	<0.5	25	107
			Ethylbenzene	µg/L	0.5	<0.5	25	94
			m/p-xylene	µg/L	1	<1	50	107
			Styrene (Vinyl benzene)	µg/L	0.5	<0.5	-	-
			o-xylene	µg/L	0.5	<0.5	25	105
			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	Acrylonitrile	µg/L	0.5	<0.5	-	-
		Compounds	2-nitropropane	µg/L	100	<100	-	-
		Oxygenated	Acetone (2-propanone)	µg/L	10	<10	-	-
		Compounds	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	Naphthalene (VOC)*	µg/L	0.5	<0.5	-	-
Sulphonated	Carbon disulfide	µg/L	2	<2	-	-		
Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.6	-	125		
	d8-toluene (Surrogate)	µg/L	-	9.0	-	106		
	Bromofluorobenzene (Surrogate)	µg/L	-	10.4	-	96		
Totals	Total BTEX	µg/L	3	<3	-	-		
	Total VOC	µg/L	10	<10	-	-		
Trihalomethanes	Chloroform (THM)	µg/L	0.5	<0.5	45.45	97		
	Bromodichloromethane (THM)	µg/L	0.5	<0.5	-	-		
	Dibromochloromethane (THM)	µg/L	0.5	<0.5	-	-		
	Bromoform (THM)	µg/L	0.5	<0.5	-	-		

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

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: $MAD = 100 \times SDL / Mean + LR$

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 identifier 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.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf

- * 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.
- 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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