Detailed Site Investigation

Bevian Road, Rosedale, NSW

Prepared for Walker Rosedale Pty Ltd

26 April 2024

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This report has been prepared for Walker Rosedale Pty Ltd in accordance with the terms and conditions of appointment for Q23166 on 25 October 2023. I, Chris Gunton, confirm this Detailed Site Investigation, Bevian Road, Rosedale, addresses the requirement of SEAR No MP 05_0199 and relevant State and local legislation, policies and guidelines. I further confirm that information contained in this report is not false or misleading.

REVISIONS

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Table of Contents

Executive Summary **6**

1. Introduction **9**

1.1 Objectives 10

1.2 Scope of Work 10

1.3 Regulatory Guidelines / Legislations 10

1.4 Limitations 10

2. Site Characteristics **12**

2.1 Site Identification and Description 12

2.2 Surrounding Land Uses 14

2.3 Sensitive Environments 14

2.4 Proposed Land Use 14

3. Site History **15**

3.1 Previous Investigations 15

3.2 Site Zoning 17

3.3 Aerial and Historical Photograph Review 18

3.4 Historical Business Directories 20

3.5 Contaminated Site Register 20

3.6 Heritage Items 20

3.7 Waste Management & Liquid Fuel Facilities 20

3.8 SafeWork Dangerous Good Search 21

3.9 Manufacturing Processes 21

3.10 Storage Tank 21

3.11 Discharges to Land, Water and Air 21

3.12 Review of Current and Historical Uses 21

4. Site Condition and Environmental Setting **23**

4.1 Topography 23

4.2 Visible Signs of Contamination 23

4.3 Odours 23

4.4 Fill Material 23

4.5 Staining 23

5. Geology and Hydrogeology **24**

5.1 Geology 24

5.2 Hydrogeology 24

5.3 Hydrology 24

5.4 Acid Sulfate Soil Risk 24
6. Preliminary Conceptual Site Model 26
6.1 Areas of Environmental Concern 26
6.2 Contaminants of Potential Concern 27
6.3 Exposure Pathways and Receptors 28
7. Data Quality Objectives 30
8. Sampling, Analysis and Quality Plan 33
8.1 Chronology of Events 33
8.2 Sampling Plan 33
8.2.1 Soil 33
8.2.2 Surface Water & Sediment 34
8.2.3 Groundwater 34
8.2.4 Quality Assurance / Quality Control 35
8.3 Analytical Plan 35
9. Assessment Criteria 37
9.1 Soil Assessment Criteria 37
9.2 Sediment Assessment Criteria 39
9.3 Surface Water & Groundwater Criteria 40
10. Methods 41
10.1 Soil Sampling 41
10.2 Sediment Sampling 41
10.3 Surface Water Samples 41
10.4 Groundwater Samples 42
10.5 Decontamination Procedure 42
11. Quality Assurance (QA) and Quality Control (QC) Plan 43
11.1 Field QA/QC 43
11.2 Laboratory QA/QC 45
12. Results and Discussion 49
12.1 Visual Observations / Field Measurements 49
12.1.1 Soil 49
12.1.2 Sediment 50
12.1.3 Surface Water 50
12.1.4 Groundwater 50
12.2 Analytical Results 51
12.2.1 Soil 51
12.2.2 Sediment 53

12.2.3 Surface Water 54
12.2.4 Groundwater 57
13. Revised Conceptual Site Model 59
13.1 Summary of Site Condition 59
13.1.1 Soil 59
13.1.2 Sediment 59
13.1.3 Surface Waters 60
13.1.4 Groundwater 60
13.2 Potential Receptors and Exposure Pathways 61
14. Summary and Conclusions 63
15. References 66

List of Tables

Table 1: Summary of Site Details 12
Table 2: AECs and associated CoPCs as outlined by Douglas Partners (2007). 15
Table 3: Details of the Review of Aerial Photographs 19
Table 4: Identified COPC and the associated AECs 27
Table 5: Summary of Exposure Pathways 28
Table 6: *DQOs derived for the Investigation* 30
Table 7: *Summary of the Chronology of Works* 33
Table 8: *Summary of AEC sample plan* 33
Table 9: *Purpose of groundwater well locations* 35
Table 10: Analytical plan for the investigation 35
Table 11: Used Physicochemical Properties 37
Table 12: Soil Assessment Criteria 38
Table 13: Summary of RPDs 43
Table 14: Summary of RPDs 44
Table 15: Summary of RPDs 44
Table 16: Summary of laboratory QA/QC 45
Table 17: Summary of fill material 49
Table 18: Revised Conceptual Site Model 61

Appendices

Appendix A Figures
Appendix B Analytical Results
Appendix C Lotsearch Report
Appendix D Site Photographs
Appendix E EIL Calculations
Appendix F Borehole Logs
Appendix G Field Monitoring Forms
Appendix H Laboratory Reports and Chain of Custody Documentation

Appendix I Equipment Calibration Certificates
Appendix J DSI Checklist

Executive Summary

Walker Rosedale Pty Ltd (Walker) engaged Lanterra Consulting Pty Ltd (Lanterra) to complete a detailed site investigation (DSI) to support the proposed modification of the 2008 Concept Plan Approval (application number 05_0199 for a residential subdivision at Bevian Road, Rosedale, NSW

From the project brief, it is understood that a modification is sought for the 2008 Concept Plan Approval to provide a Torrens title development that includes residential development and ancillary commercial facilities, public roads, public open areas and residual rural lot yielding a total of 792 residential lots, inclusive of the 51 residential lots recently constructed and registered as part of stage 1 (DA305/18) in accordance with the Secretary's Environmental Assessment Requirements (SEARS) for the project (MP 05_0199). For the purposes of the modification, stage 1 is excluded from further consideration.

A preliminary site investigation (PSI) was completed by Douglas Partners (2007) which identified areas of environmental concern across the site. Lanterra reviewed the PSI (Douglas Partners, 2007) in 2022, including a site visit, to contemporise the findings and complete a gap analysis to assess whether the site had changed between 2007 and 2022. The following AECs were identified by Lanterra (2022) for further assessment:

- AEC 1 - Above Ground Storage Tanks (Lot 11 DP 755902).
- AEC 2 – Location of former cheese factory (Lot 11 DP 755902).
- AEC 3 – Location of former dairy and cattle yards (Lot 213 DP 755902).
- AEC 4 – Area of identified asbestos scatter (Lot 11 DP 755902).
- AEC 5 – Area beneath and surrounding abandoned car (Lot 72 DP 755902).
- AEC 6 – Former nursery compound, including fill pad, potential stockpiles and pumphouse (Lot 11 DP 755902).
- AEC 7 – Large stockpiles likely associated with new road construction (Lot 52 DP1293369).

Based on the history of the site and this soil investigation, a summary of the key findings is provided below:

- Fill material was observed in AEC1 (area surrounding former AST) and AEC 6 (former nursery) to depths varying between 0.2 to 1.1 m below ground level. Fill material was also found in the man-made wetland in the east of the site.
- Fill material across the site corresponded with topsoil and reworked material likely sourced from the site and its surrounding. The reworked material corresponded with the geology of the area. The sediment identified as fill material within the man-made wetland was likely imported materials.
- Two fragments of ACM were observed on the surface of the site in AEC3 (former dairy) and AEC4 (identified asbestos scatter).
- No asbestos fines or fibrous asbestos were detected in any of the analysed samples across the site.
- Detectable concentrations, below the adopted assessment criteria, of TRHs were reported within soil, sediment, surface waters and groundwater across the site. However, a silica gel cleanup indicated that these were likely to be of biogenic origin, resulting from eucalypt forests at and surrounding the site. Lanterra does not consider these to be a risk to human health or the ecological environment of the site for the proposed residential development from a contamination perspective.

- Detectable concentrations of PAHs were found in sediments and surface waters from a dam in the north-west of the site and the man-made wetland/drainage channel in the east. Exceedances of the adopted drinking water guidelines (health) and recreational water quality and aesthetics guidelines were found for benzo(a)pyrene. These concentrations of PAHs are considered to be attributed to the incomplete combustion of organic materials caused by the 2019/20 bushfires that impacted both the site and the surrounding region.
- Exceedances of nickel above the adopted assessment criteria for the protection of aquatic ecosystems was reported for sediments and above the protection of freshwater species and the drinking water guidelines criteria for groundwater. Exceedances of copper above the protection of freshwater species criteria was reported in surface water.
  Exceedances of zinc above the protection of freshwater species were reported in surface waters and groundwater. Heavy metal concentrations at the site were attributed to the natural composition of soils and were not considered to be a risk to human or ecological health of the site.
- Concentrations of benzene, ethylbenzene and xylene were below the laboratory LOR. Detectable concentrations of toluene were reported within surface waters; however, concentrations were below the adopted assessment criteria.
- Detectable concentrations of phenols were reported within surface waters; however, concentrations were below the adopted assessment criteria.
- Concentrations of OPP/OCP and PCBs, across the site were below the adopted assessment criteria for the protection of human and ecological health for low-density residential land use.

Based on the findings of this contamination assessment (detailed site assessment), the site is considered suitable for the proposed residential subdivision in accordance with the Secretary's Environmental Assessment Requirements (SEARS) MP 05_0199.

Lanterra notes that prior to any earthwork occurring across the site a construction environmental management plan (CEMP) which includes an unexpected finds protocol (UFP) to manage any unexpected occurrences of contamination must be prepared by a suitably qualified environmental consultant.

Any soil to be removed from the site as part of the development works must be assessed in accordance with the definition of virgin excavated natural material (VENM) as defined by the *Protection of the Environment Operations Act 1997* (POEO Act), the NSW EPA (2014) *'The Excavated Natural Material Order 2014'* if suitable for off-site use as excavated natural material (ENM) or NSW EPA (2014) *'Waste Classification Guidelines, Part 1: Classifying Waste'* for off-site disposal as waste.

Lanterra recommends that any asbestos containing material (ACM) remaining at the surface of the site within areas of environmental concern (AECs) 3 (former dairy) and 6 (identified asbestos scatter) should be removed by completing an emu pick, so that the exposed surface of the site is free of visible ACM fragments. Alternatively, a 30 cm layer of topsoil can be layered over the site. Lanterra notes that all soil to be imported must comply with the definition of virgin excavated natural material (VENM) as defined by the *Protection of the Environment Operations Act 1997* (POEO Act). Once remediation is complete, a clearance certificate must be issued by either a 'competent person' or a licensed asbestos assessor.

Lanterra recommends that future abstraction of groundwater for domestic use at the site should be prohibited. A beneficial reuse assessment should be completed for any other use to determine whether the groundwater quality is suitable for the proposed purpose.

Lanterra recommends waterways at the site should not be used for recreational purposes or as a source of drinking water.

1. Introduction

Walker Rosedale Pty Ltd (Walker) engaged Lanterra Consulting Pty Ltd (Lanterra) to complete a detailed site investigation (DSI) to support the proposed modification of the 2008 Concept Plan Approval (application number 05_0199 for a residential subdivision at Bevian Road, Rosedale, NSW. The location and layout of the site is illustrated in **Figure 1** and **Figure 2, Appendix A**.

From the project brief, it is understood that a modification is sought for the 2008 Concept Plan Approval to provide a Torrens title development that includes residential development and ancillary commercial facilities, public roads, public open areas and residual rural lot yielding a total of 792 residential lots, inclusive of the 51 residential lots recently constructed and registered as part of stage 1 (DA305/18) in accordance with the Secretary's Environmental Assessment Requirements (SEARS) for the project (MP 05_0199). For the purposes of the modification, stage 1 is excluded from further consideration.

The site is currently divided into four zoning areas as follows:

- R2 – Low Density Residential (comprising the majority of the site, including central, eastern norther and south-east portions of the site).
- RU1 – Primary Production (north-west portion).
- E4 – Environmental Living (south-west portion).
- E2 – Environmental Conservation (southern portion).

The site has an estimated area of approximately 1.8 km^2 and is currently used as a rural residential property, with an occupied dwelling located adjacent to the eastern boundary. Historically the site has had various uses, including a dairy and cattle yard, cheese factory, nursery and anecdotally an orchard. A detailed site plan is shown on **Figure 2, Appendix A**.

A preliminary site investigation (PSI) was completed by Douglas Partners (2007) which identified areas of environmental concern across the site. Lanterra reviewed the PSI (Douglas Partners, 2007) in 2022, including a site visit, to contemporise the findings and complete a gap analysis to assess whether the site had changed between 2007 and 2022. The following AECs were identified by Lanterra (2022) for further assessment:

- AEC 1 - Above Ground Storage Tanks (Lot 11 DP 755902).
- AEC 2 – Location of former cheese factory (Lot 11 DP 755902).
- AEC 3 – Location of former dairy and cattle yards (Lot 213 DP 755902).
- AEC 4 – Area of identified asbestos scatter (Lot 11 DP 755902).
- AEC 5 – Area beneath and surrounding abandoned car (Lot 72 DP 755902).
- AEC 6 – Former nursery compound, including fill pad, potential stockpiles and pumphouse (Lot 11 DP 755902).
- AEC 7 – Large stockpiles likely associated with new road construction (Lot 52 DP 1293369).

The purpose of this investigation was to assess the suitability of the site for the proposed development.

1.1 Objectives

The objective of the investigation is to assess the suitability of areas of environmental concern that were identified in the previous environmental investigations and assess the greater site area to comply with the requirements of the SEARs.

1.2 Scope of Work

The following scope work has been completed to meet the project objectives:

- Undertake intrusive site investigation comprising four stages:
    - Soil assessment within the seven identified AECs.
    - Surface water and sediment sampling.
    - Groundwater investigation, including the installation and sampling of eight groundwater wells.
    - Background soil assessment on the remaining area outside the AECs.
- Undertake all analysis at a National Associated of Testing Authorities (NATA) accredited laboratory for the analyses of contaminants of potential concern (COPCs) identified by Lanterra during this investigation.
- Assess laboratory results obtained from the investigation against the applicable land use criteria.
- Preparation of a contamination assessment report in general accordance with the State Environmental Planning Policy (Resilience and Hazards) 2021 - Remediation of Land and the associated guidelines, to satisfy the requirements of SEAR 9, by presenting the outcomes of the investigation and makes any necessary recommendations.

1.3 Regulatory Guidelines / Legislations

The investigation and preparation of this report was undertaken with reference to (but not limited to) the following regulatory guidance documents and standards:

- *National Environmental Protection Council (NEPC) (2013). National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended April 2013) (hereafter ASC NEPM 2013)*
- *NSW EPA (2017) Guidelines for the NSW Site Auditor Scheme (3rd Ed.) (2017)*
- *NSW EPA (1995) Sampling Design Guidelines*
- *NSW EPA (2022) Contaminated Land Guidelines – Sampling Design Part 1 - Application*
- *NSW EPA (2020) Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites*
- *Standards Australia (2005). Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds AS4482.1 (2005) and Part 2: Volatile substances, AS4482.2 (2005)*
-

1.4 Limitations

The findings of the report were based on the Scope of Work outlined above. Lanterra performed services in a manner consistent with the normal level of care and expertise exercised by members of the environmental assessment profession. No warranties express or implied, are made.

Subject to the Scope of Work, the assessment was limited strictly to identifying typical environmental conditions associated with the subject property area and does not include evaluation of any other issues.

The absence of any identified hazardous or toxic materials on the subject property should not be interpreted as a guarantee that such materials do not exist on the site. Lanterra will not investigate any waste materials from the property that may have been disposed of off the site, nor related waste management practices.

The results of this assessment are based upon the site inspection and the sampling specified above conducted by Lanterra personnel and information from the Client or regulatory agencies. All conclusions and recommendations regarding the property area will be the professional opinions of the Lanterra personnel involved with the project, subject to the qualifications made above.

While normal assessments of data reliability are made, Lanterra will not assume responsibility or liability for errors in any data obtained from regulatory agencies, statements from sources outside of Lanterra, or developments resulting from situations outside the scope of this project.

2. Site Characteristics

2.1 Site Identification and Description

The site location and a detailed site plan are presented as **Figure 1** and **Figure 2**, **Appendix A**.

Table 1: *Summary of Site Details*

Site Characteristics	Detail
Street Address	Bevian Road, Rosedale NSW
Approximate Easting and Northing (centre of site)	Easting: 247721 Northing: 6032799 GDA2020/MGA zone 56
Approximate Elevation (m AHD)	10 – 110 m
Lot and Plan	Lot 2 DP 623340 Lot 2 DP 627034 Lot 11 DP 755902 Lot 29 DP 755902 Lot 32 DP 755902 Lot 72 DP 755902 Lot 102 DP 755902 Lot 52 DP 1293369 Lot 119 DP 755902 Lot 213 DP 755902
Land Zoning	RU1 – Primary Production R2 – Low Density Residential E2 – Environmental Conservation E4 – Environmental Living
Current Land Use	Rural Residential
Future Land Use	Low-density residential
Owner/Custodian	Walker Rosedale Pty Ltd
Site Area	Approximately 180,000 m^2 (180 ha)

The site is a rural property located approximately 800 m to the west of the township of Rosedale.

The following description is based on observations made during a site visit for the preliminary site investigation conducted on Wednesday 2 June 2022 by a suitably qualified environmental scientist from Lanterra. The site inspection focused mainly on the Areas of Environmental Concern (AECs) as described in the Preliminary Contamination Assessment (2007) by Douglas Partners, while other parts of the site were briefly inspected for evidence of contamination or potential contaminating activities.

- The site is currently occupied by a single residential dwelling located adjacent to the eastern boundary of the site. The remaining site comprised of densely vegetated areas, grasslands and waterways. Excavation works were occurring at the time of the inspection and new roads had been constructed in the eastern portion of the site. Large stockpiles of what

appeared to be soil material associated with the excavation works were present towards the centre of the site.

- Bevian Road passes through the north-eastern boundary, through the central portion of the site to the southern boundary. The road was unsealed and appeared to be in a maintained condition in the northern portion of the site, unlike the southern portion which was heavily rutted and overgrown in some parts.
- The residential dwelling was occupied at the time of the inspection, no access was provided within the fenced area surrounding the dwelling. What appeared to be two large rainwater tanks were present adjacent to the eastern side of the dwelling and a driveway extending from the eastern side of Bevian Road to the northern side of the dwelling. The area beneath and surrounding the dwelling appeared to have been filled for levelling purposes.
- Directly adjacent to the north of the residential property was the area of the former cheese factory. No structures were present at the time of the inspection. The top of a concrete tank, of approximately 1.5 m diameter, was visible through the surface vegetation which was present in the central portion of the area, along with a large stockpile of what appeared to be burnt vegetation. A makeshift marker indicated the location of the tank, constructed of metal piping, a star picket and caution tape.
- What appears to be a filled and levelled area (fill pad) is present in the western portion of the former nursery compound (north-east portion of the site). Occasional fragments of building waste were identified across the surface of this area, including glass, ceramic pipe, polyvinyl chloride (PVC) pipe, electrical wiring and fibreglass fragments. A stockpile of approximately 25 m^3 volume comprised of woodchips was present within the north-west portion of the nursery compound. The fill pad was mostly covered with dense vegetation, comprised of gasses, shrubs and trees, although towards the central and northern portions there were areas of bare soil and pooled surface water. An abandoned tractor was also present towards central portion of the fill pad. No evidence of the above-ground storage tanks as described in the Preliminary Contamination Assessment (2007) was observed at the time of inspection. There also appeared to be no evidence of the described asbestos scatter on the surface of the north-western portion of the former nursery compound.
- What appeared to be two small stockpiles of unknown contents, each with approximate volumes of $5m^3$, were present adjacent to the eastern side of the fill pad within the former nursery compound. The surface of each stockpile was covered with dense vegetation. A heavily rusted abandoned trailer, constructed of steel and timber was present to the south of the stockpiles.
- The nursery compound is bordered by a creek/dam to the south and a portion of the east, and an access road from Bevian Road to the north. The remainder of the nursery compound was covered in dense vegetation, permitting only limited visibility of the ground surfaces.
- A small steel and timber structure on a concrete slab was present within the eastern portion of the former nursery compound, located on the western bank of the creek/dam. It contained what appeared to be a pump, electrical wiring and associated items and discarded bricks. A power pole was present directly adjacent to the structure, with an associated electricity distribution box, which at the time of inspection had become disconnected from its attachment to the pole and was resting on the ground. What appeared to be a warning/indication light was also present on the pole. The structure was assumed to have been used as a pump house.
- Towards the central area of the northern portion of the site, in what is described in the Preliminary Contamination Assessment (2007) as the former Dairy, was a large, partially in-

ground concrete tank (approximately 4 m diameter) which was full of an unknown liquid (presumably water). Surrounding the tank to the north appeared to have been the location of the former Dairy building, what appeared to be asbestos fragments were present across the surface of the area. A steel cage structure and discarded plastic and steel piping were present adjacent to the tank. No other structures were present.

- No evidence of the 'Abandoned Orchard' in the southern portion of the site, the 'Disturbed Area' in the central portion of the site, the 'Two Pits' to the west of the former nursery compound or any filling of the gullies or creeks across the site as described in the Preliminary Contamination Assessment (2007) were observed during the inspection. Dense vegetation cover was present across the majority of the site which permitted only limited visibility of the surface conditions.
- An abandoned, burnt car was present on Bevian Road, adjacent to the north of Burri (Bevian) Wetland.
- A network of creeks and dams were present across the site, along with part of Burri (Bevian) Wetland in the south.

A detailed site plan is presented in **Figure 2, Appendix A** while photographs of the site are provided in **Appendix D**.

2.2 Surrounding Land Uses

A summary of the land uses that surround the site are as follows:

- **North**: Immediately adjacent to the site boundary is Burri Road and Primary Production Land lots, including an open cut gravel quarry.
- **South**: The Tomakin Sewage Treatment Plant is adjacent to the south-east boundary of the site and a portion of Burri (Bevian) Wetland adjacent to the south-west, George Bass Drive is beyond.
- **East**: Rural residential properties are adjacent to the east of the site.
- **West**: Rural residential properties are adjacent to the south-west of the site; Mogo State Forest is adjacent to the north-west.

2.3 Sensitive Environments

The following sensitive environment receptors were identified:

- Onsite waterways, including Burri (Bevian) Wetland, which is zoned as Environmental Conservation.
- Mogo State Forest to directly to the North-east of the site.
- Residential property on site and residential properties surrounding the site.
- State Forest to the north-east of the site.

2.4 Proposed Land Use

The site is the proposed location of the Rosedale Residential Subdivision project called Ocean Ridge. Lanterra were informed by Walker that the proposed use would include low-density Torrens title residential lots and ancillary commercial facilities, public roads, public open areas and residual rural lot yielding a total of 792 residential lots.

3. Site History

3.1 Previous Investigations

A summary of previous investigation reports is provided below:

***Report on Preliminary Contamination Assessment, Bevian Road Concept Application, Bevian Road, Rosedale,* Douglas Partners Pty Ltd. October 2007.**

A Preliminary Contamination Assessment was conducted for the site by Douglas Partners during October 2007. Investigation findings are presented below:

- *The investigation comprised a review of site history information including a review of previous investigations, a groundwater bore search, a review of historical titles, council records and historical aerial photographs, a search of regulatory Notices or Orders, a review of Rosedale Urban Release Area Cultural Heritage Assessment, an interview with a former site owner, a site inspection and the identification of areas of environmental concern.*
- *The site history and inspection indicated that the site had mainly been used for agricultural, horticultural and rural residential purposes.*
- *Based on the site history review and inspection/field mapping, the overall potential for contamination at the subject site is considered to be low.*
- *Thirty- seven separate PAECs (Potential Areas of Concern) were identified across the site of which ten were deemed to be areas of environmental concern (AEC). As the land has been proposed for residential development, it is recommended that field-based investigations be carried out in each of the identified AEC to confirm the suitability for residential landuse. Appropriate scopes of work and sample and analysis quality plans (SAQP) should be prepared for each AEC prior to commencement of fieldwork.*

Douglas Partners (2007) refers to an investigation titled *Stage 1 Environmental Site Assessment, Lot 11 DP 755902* completed by Douglas Partners in 2003, which included the limited sampling of the former nursery compound which identified no elevated contaminants and also identified the above-ground storage tanks and pump. Lanterra were unable to obtain a copy of this report for verification purposes.

A summary of each AEC and their associated potential contaminants of concern, as outlined in the Preliminary Contamination Investigation (Douglas Partners 2007) are presented in the table below.

Table 2: *AECs and associated CoPCs as outlined by Douglas Partners (2007).*

	Description	Potential Contaminants of Concern
AEC1	*Area surrounding Above Ground Storage Tanks (ASTs) (Lot 11 DP 755902)*	*Total Recoverable Hydrocarbons (TRH), Benzene, Toluene, Ethylbenzene, Xylene (BTEX), Polycyclic Aromatic Hydrocarbons (PAH), Phenols*
AEC2	*Old Cheese Factory (Lot 11 DP 755902)*	*Asbestos, Lead in paint, Lead in soil, Organochlorine Pesticides (OCP), Organophosphorus Pesticides (OPP)*

AEC 3	*Disturbed Area (Lot 32 DP 755902)*	*Heavy metals, TRH/BTEX, PAH, OC, OP, PCB, Asbestos*
AEC4	*Disused Dairy (Lot 213 DP 755902)*	*Heavy metals, TRH/BTEX, PAH, OC, OP, PCB, Asbestos*
AEC6	*Asbestos Scatter (Lot 11 DP 755902)*	*Asbestos*
AEC7	*Abandoned Orchard (Lot 29 DP755902)*	*Heavy metals, OC, OP*
AEC8	*Two Pits (Lot 213 DP 755902)*	*Heavy metals, TRH/BTEX, PAH, OC, OP, PCB, Asbestos*
AEC9	*Filled gully/ Creek North of Nursery*	*Heavy metals, TRH/BTEX, PAH, OC, OP, PCB, Asbestos*
AEC10	*Filled gullies on Southern side of Old Dairy*	*Heavy metals, TRH/BTEX, PAH, OC, OP, PCB, Asbestos*

Bevian Road, Rosedale, NSW – Preliminary Site Investigation, Lanterra Consulting, February 2022.

Lanterra Consulting Pty Ltd (Lanterra) was engaged by Walker to complete a review and contemporisation of previously prepared *Preliminary Contamination Assessment* by Douglas Partners in 2007 for a total of 10 lots (herein referred to as the site) located at Bevian Road, Rosedale NSW:

- Lot 2 DP 623340
- Lot 2 DP 627034
- Lot 11 DP 755902
- Lot 29 DP 755902
- Lot 32 DP 755902
- Lot 72 DP 755902
- Lot 102 DP 755902
- Lot 52 DP 1293369
- Lot 119 DP 755902
- Lot 213 DP 755902

The site is currently divided into four zoning areas as follows:

- R2 – Low Density Residential (comprising the majority of the site, including central, eastern norther and south-east portions of the site).
- RU1 – Primary Production (north-west portion).
- E4 – Environmental Living (south-west portion).
- E2 – Environmental Conservation (southern portion).

The site has an estimated area of approximately 1.8 km^2 and is currently used as a rural residential property, with an occupied dwelling located adjacent to the eastern boundary. Historically the site has had various uses, including a dairy and cattle yard, cheese factory, nursery and anecdotally an orchard. A detailed site plan is shown on **Figure 2, Appendix A**.

At the time of reporting, the Masterplan for the proposed development was currently under review, Lanterra were informed by Walker that development would include low-density residential allotments.

Areas of Environmental Concern (AECs) were identified at the site and are summarised in the table below:

- AEC 1 - Above Ground Storage Tanks (Lot 11 DP 755902).
- AEC 2 – Location of former cheese factory (Lot 11 DP 755902).
- AEC 3 – Location of former dairy and cattle yards (Lot 213 DP 755902).
- AEC 4 – Area of identified asbestos scatter (Lot 11 DP 755902).
- AEC 5 – Area beneath and surrounding abandoned car (Lot 72 DP 755902).
- AEC 6 – Former nursery compound, including fill pad, potential stockpiles and pumphouse (Lot 11 DP 755902).
- AEC 7 – Large stockpiles likely associated with new road construction (Lot 52 DP 1293369).

These AECs were the outcome of the review of the previous contamination assessment by Douglas Partners (2007) and the status of the site at the time of the site visit. AEC 5 and AEC 7 have been included as additional AECs, whilst the 'Disturbed Area', Abandoned Orchard', 'Two Pits', 'Filled Gully/Creek North of Nursery; and 'Filled Gullies on Southern side of Old Dairy' which were identified by Douglas Partners (2007) were no longer considered as AEC due to lack of historical or current (at time of inspection) evidence to indicate any contamination.

Overall, the majority of the site is considered suitable for proposed low-density residential use from a contamination perspective. Investigation of soil and sediment will be required within the identified AECs prior to development.

Lanterra recommends the following:

- Sampling of water and sediment within the onsite waterways prior to development. This is to assess whether these receptors may have been receiving contaminated media (soil/sediment) from onsite or off-site sources.
- Removal and validation sampling of the following vehicles observed on the site:
    - burnt car that had been abandoned adjacent to Burri (Bevian) Wetland,
    - tractor and trailer located at the former nursery compound.
- Removal of building waste identified across the surface of the former dairy and nursery compounds. Fragments of asbestos containing material (ACM) were observed on the surface of the former dairy which will require disposal by a licensed asbestos removalist and disposed to a suitable waste facility. Validation sampling of the soil is also recommended once the waste materials have been removed.
- The large concrete tank located within the former dairy is to be removed prior to development. Testing and assessment of the liquid contained within the tank will need to occur prior to pumping and disposal.
- If the residential dwelling is to be removed, an investigation targeting the fill beneath and surrounding the structure will be required.
- Any structures designated for removal will require a Hazardous Materials Survey prior to demolition.
- An unexpected finds protocol (UFP) to manage any unexpected occurrences of contamination should they be encountered during development of the site (including building demolition) should be prepared prior to any earthworks commencing.

3.2 Site Zoning

The site currently contains four zones under the Eurobodalla Local Environmental Plan 2012 as follows, and encompass each of the outlined objectives:

- R2 - Low Density Residential:
  - To provide for the housing needs of the community within a low-density residential environment.
  - To enable other land uses that provide facilities or services to meet the day to day needs of residents.
  - To encourage residential development that is consistent with the character of the neighbourhood.
- RU1 - Primary Production:
  - To encourage sustainable primary industry production by maintaining and enhancing the natural resource base.
  - To encourage diversity in primary industry enterprises and systems appropriate for the area.
  - To minimise the fragmentation and alienation of resource lands.
  - To minimise conflict between land uses within this zone and land uses within adjoining zones.
  - To minimise the visual impact of development on the rural landscape.
  - To provide for recreational and tourist activities that support the agricultural, environmental and conservation value of the land.
- E4 – Environmental Living:
  - To provide for low-impact residential development in areas with special ecological, scientific or aesthetic values.
  - To ensure that residential development does not have an adverse effect on those values.
  - To protect the size and shape of vegetation remnants if consistent with the protection of assets from bush fire.
  - To ensure that development in the area does not unreasonably increase the demand for public services or public facilities.
  - To manage items, places and landscapes of Aboriginal cultural heritage significance into the future in collaboration with the local Aboriginal community.
- E2: Environmental Conservation:
  - To protect, manage and restore areas of high ecological, scientific, cultural or aesthetic values.
  - To prevent development that could destroy, damage or otherwise have an adverse effect on those values.
  - To identify sensitive coastal lakes, estuaries, wetlands, overland flow paths and riparian zones and those areas at risk from coastline hazards, including sea level rise.
  - To protect and improve water quality.
  - To protect and enhance the natural environment for recreation purposes.
  - To manage items, places and landscapes of Aboriginal cultural heritage significance into the future in collaboration with the local Aboriginal community.

3.3 Aerial and Historical Photograph Review

A Lotsearch (Environmental Risk Report) was requested as part of the PSI (Lanterra, 2022) to assist with the history of the site and its surroundings, which included historical aerial photographs of the site. These were reviewed to assist with assessing the history of the site. A summary of each

photograph examined as a part of the investigation is provided in **Table 3** below and the Lotsearch report in **Appendix C**.

Table 3: *Details of the Review of Aerial Photographs*

Date	Source	Description of the Subject Site	Description of Surrounding Land
1961	Lotsearch	The site appears to be partially cleared and what are known as the Cheese Factory (Lot 11 DP 755902) in the eastern portion of the site and former Dairy (Lot 213 DP 755902) in the central portion of the site have been developed. One large structure is apparent comprising the Dairy, while several structures are apparent comprising the Cheese Factory. An unsealed road (Bevian Road) runs through the site from the northeast corner to the southern end of the site.	The surrounding area was mostly undeveloped forest with visible trees surrounding the site. Patches of cleared land visible to the north and east of the site. Mogo State Forest present to the west of the site. Burri (Bevian) Wetland and creek lines were present to the south of the site. George Bass Drive is visible to the southeast of the site
1970	Lotsearch	Largely unchanged from the previous aerial photograph. Noticeable land clearing in the northern and central portions of the site.	Largely unchanged from the previous aerial photograph. George Bass Drive is visible to the northeast of the site
1979	Lotsearch	Substantial land clearing throughout the site with trees only remaining in the central and northeast portion of the site and along the site boundaries. A large structure is now present in what is known as the former nursery compound (Lot 11 DP 755092) located within the northeast portion of the site. Series of farm dams have been constructed across tributary gullies in the northern portion of the site.	George Bass Drive extends to the entire south with caravan park located further south of the site along George Bass Drive
1989	Lotsearch	Largely unchanged from the previous aerial photograph. Additional dams (Lot 11 DP 755902) have been constructed in the northern and central portions of the site. The former nursery compound (Lot 11 DP 755092) appears to contain further structures and changes to the ground surface have appeared. Clearing has occurred in the north-east corner of the site. A structure in now present to the south of the Cheese Factory, with what appears to be an unsealed driveway leading from Bevian Road.	Roseby Drive is visible to the southeast of the site with some rural properties along Nicholas Grove and Innes Grove. Rural properties located near the sites southwest corner. Sewage treatment plant located south of the site along George Bass Drive. Barlings Drive and Thomsen Place visible to the west of the site.
1997	Lotsearch	Largely unchanged from the previous aerial photograph.	Largely unchanged from the previous aerial photograph.
2005	Lotsearch	Largely unchanged from the previous aerial photograph.	Largely unchanged from the previous aerial photograph.

Date	Source	Description of the Subject Site	Description of Surrounding Land
2013	Lotsearch	Largely unchanged from the previous aerial photograph.	Largely unchanged from the previous aerial photograph. Ocean View Way visible to the southwest along George Base Drive.
2020	Lotsearch	Areas of the site appear to have been affected by the bushfires of 2019/20. The structures associated with the Former dairy (Lot 213 DP 755902) and nursery compound (Lot 11 DP 755092) are no longer present. Soil appears to be disturbed in the near east corner of the site	Largely unchanged from the previous aerial photograph. Residential properties southwest of the site near Ocean View Way.
2022	Nearmap	Largely unchanged from the previous aerial photograph. Road infrastructure developed (Lot 52 DP 1293369)	Roadworks and earthworks east of the site. Roadworks appears to be an offshoot from George Bass Drive.

3.4 Historical Business Directories

A historical business directories search of the site is provided as part of the Lotsearch Environmental Risk report (**Appendix C**).

This search showed no records of potentially hazardous activities have been performed within the site or within a 500 m radius of the site. Although, business directory records from 1950-1951 indicate that Tomakin Auto Centre, under the motor garages & service centres business activity, is located within the George Bass Drive Road corridor to the south-west of the site. Review of the historical aerial imagery provided in the Lotsearch Environmental Risk report (**Appendix C**) does not indicate the presence of any properties which appear to have been used for this purpose within the site buffer.

3.5 Contaminated Site Register

A contaminated site search was completed for the site with NSW EPA as part of the Lotsearch Report (**Appendix C**) with findings below:

- The site is not listed under the NSW EPA contaminated site notification list.
- No records of sites on the NSW EPA contaminated land list were located within a 500 m radius of the site.

3.6 Heritage Items

No heritage listed items are located within the site, however, several items are observed in its surroundings.

The closest are Barlings Beach Area and Barlings Beach Aboriginal Place to the south-west beyond George Bass Drive.

A copy of these records is presented in the Lotsearch report in **Appendix C**.

3.7 Waste Management & Liquid Fuel Facilities

There are no records within the site for National Liquid Fuel Facilities or records in the National Waste Management Site Database.

3.8 SafeWork Dangerous Good Search

A search of the SafeWork NSW dangerous good storage and hazardous chemicals was not undertaken for the site.

3.9 Manufacturing Processes

There are no known manufacturing processes that currently occur on the site, although a Cheese Factory was believed to be in operation historically.

3.10 Storage Tank

Based on the site visit on 2 June 2022 no evidence of fuel storage tanks was observed during the site inspection, although the previous investigation (Douglas Partners 2007) identified above-ground storage tanks and a pump in the nursery compound of Lot 11 DP 755902 which is assumed to have since been removed.

3.11 Discharges to Land, Water and Air

No information regarding discharges to land, water and air was available for review at the time of writing this report. As manufacturing operations are known to have occurred at the site (the Cheese Factory in the north-east portion of the site), it is possible that there may have been previous discharges to land, water or air in the past.

3.12 Review of Current and Historical Uses

Based on the observations made during the site visit and the historical information received, the following summary for the current and historical uses has been compiled:

- The above-ground storage tanks and oil heaters within the former nursery area were no longer present (Lot 11 DP 755902).
- The asbestos scatter described within the former nursery area was not evident (Lot 11 DP 755902).
- The buildings and structures comprising the former nursery area were no longer present within Lot 11 DP 755902.
- An abandoned tractor and trailer were noted within the western portion of the former nursery area (Lot 11 DP 755902) which were not previously identified by Douglas Partners (2007). These were no longer present on inspection during December 2023.
- The buildings or structures comprising the former Cheese Factory were no longer present within Lot 11 DP 755902.
- The buildings or structures comprising the former Dairy area were no longer present (with the exception of a concrete tank) within Lot 213 DP 755902.
- Construction of roads was occurring in the eastern portion of the site within Lot 118 DP 755902.
- Large stockpiles assumed to be associated with the construction of the new roads were now present within the western portion of Lot 52 DP 1293369.
- An abandoned car was present on Bevian Road, adjacent to the Burri (Bevian) Wetland in the southern portion of the site (Lot 72 DP 755902) which had not been identified in the

previous investigation (Douglas Partners, 2007). These were no longer present on inspection during December 2023.

4. Site Condition and Environmental Setting

4.1 Topography

The digital topographic map presented in **Appendix C** indicates that the site has an elevation of approximately 10-110 m above Australian Height Datum (m AHD).

The site is undulating, although the regional topography slopes from north to south. The site is steepest to the northwest with steep ridgelines across the site generally running west to east.

4.2 Visible Signs of Contamination

No obvious indicators of chemical contamination were noted during the site visit on 2 June 2022. Asbestos fragments were observed across the ground surface of the former dairy.

4.3 Odours

There were no olfactory indicators of possible contamination during the site walkover.

4.4 Fill Material

During the site visit on 2 June 2022 what appeared to be areas of fill were present within the nursery compound and beneath and surrounding the residential dwelling to the east of Bevian Road in the north-east portion of the site.

Large stockpiles located in Lot 52 DP 1293369 were observed and assumed to have been associated with the construction of the new roads in the same lot.

4.5 Staining

There was no evidence of hydrocarbon staining on the site during the site visit on 2 June 2022.

5. Geology and Hydrogeology

5.1 Geology

Based on information provided in the Lotsearch Environmental Risk Report (**Appendix C**), the site is underlain by the following Silurian and Quaternary aged geological units:

- Wagonga Group across the majority of the site which comprises of chert, conglomerate, siltstone, sandstone and basic volcanic rocks.
- Bogolo Formation in the south-eastern section of the site which comprises of mudstone plus minor quartz sandstone and chert, mafic volcanic rocks.
- Alluvial fan deposits are present in a small areas across the site which comprise fluvially-deposited quartz-lithic sand, silt, gravel, clay.
- Coastal deposits – backbarrier flat facies in the vicinity of the Burri (Bevian) Wetland in the southern portion of the site which comprise fine to medium grained quartz-lithic sand with carbonate and humic components (marine-deposited), indurated sand, silt, clay, gravel, organic mud, peat.
- Alluvial floodplain deposits are present in a very small portion at the eastern boundary of the site which comprise silt, very fine to medium grained lithic to quartz-rich sand, clay.

5.2 Hydrogeology

A groundwater bore search was provided within the Lotsearch report (**Appendix C**). The purpose of the bore search was to document the location and depth of any nearby registered groundwater bores, and the associated quality of the groundwater so that potential impacts of contaminants from the site or surrounding land uses (if any) on local users of groundwater may be assessed. A copy of the groundwater bore search results is presented in **Appendix C**.

This search indicated that there are fourty-six (46) groundwater boreholes registered with the Bureau of Meteorology within 2,000 m of the site. The nearest of these boreholes is located approximately 146 m to the north of the site. (See **Appendix C**).

Based on information provided in the Lotsearch report (**Appendix C**) sourced from the Commonwealth of Australia (Geoscience Australia) Hydrogeology Map of Australia, groundwater beneath the site is hosted by fractured or fissured, extensive aquifers of low to moderate productivity.

Based on the standing water levels of boreholes located at a similar altitude, groundwater is expected to be found between 0 – 10 m below ground level (bgl). Based on the general topography of the site groundwater flow direction is inferred to be in an overall south-eastern direction towards the Tasman Sea.

5.3 Hydrology

Surface water on the site is expected to follow the topographic contours of the site and flow from west to east in the northern portion of the site into Saltwater Creek and from north to south in the southern portion of the site east into Burri (Bevian) Wetland.

5.4 Acid Sulfate Soil Risk

A review of the Australian Soil Resource Information System (ASRIS) map shows the subject site to be situated in an area of “low probability” of occurrence for acid sulfate soil.

6. Preliminary Conceptual Site Model

Conceptual site models (CSM) are a method of presenting site contamination information and the relationships between sources of contamination, how it may have been introduced to the site, possible pathways for contaminant migration and exposure and the receptors that may be affected by contaminants.

Based on the information reviewed prior to conducting any intrusive investigation, the CSM was developed to assist with generating areas of environmental concern (AEC) based on the risk of contamination being present and the potential for exposure pathways.

The preliminary CSM is presented in the sections below.

6.1 Areas of Environmental Concern

The areas of environmental concern (AECs) for the site are summarised below. AECs are presented in **Appendix A, Figure 2**

AEC 1 - Above Ground Storage Tanks (Lot 11 DP 755902)

Above ground storage tanks were noted on site by Douglas Partners (2007). Whilst no apparent evidence of the above-ground storage tanks was observed by Lanterra, no reports outlining the investigation or remediation of the soils in the vicinity of the area were available to review.

AEC 2 – Location of former cheese factory (Lot 11 DP 755902)

This building was no longer present at the time of inspection. A review of the historical aerial images (**Appendix C**) suggests that the building was damaged during the 2019/20 bushfire and demolished soon thereafter.

Lanterra was not provided with any reports or clearance certificates outlining investigation of the soils in the vicinity of the former building.

An underground concrete tank was present within the area of the former building.

AEC 3 – Location of former dairy and cattle yards (Lot 213 DP 755902)

The building and associated structures were no longer present, with the exception of a large concrete water tank. Asbestos fragments and building waste were present across the footprint of the former building.

No reports outlining any soil investigation in the surrounding area were provided to Lanterra.

AEC 4 – Area of identified asbestos scatter (Lot 11 DP 755902)

No evidence of the asbestos scatter was present at the time of inspection, as identified by Douglas Partners (2007).

No reports or clearance certificates outlining the remediation were provided to Lanterra.

AEC 5 – Area beneath and surrounding abandoned car (Lot 72 DP 755902)

the area beneath and surrounding the abandoned car located on Bevian Road, adjacent the Burri Wetland requires further investigation to determine whether contamination of the soil has occurred from any potential fuel or oil spill/leaks.

AEC 6 – Former nursery compound, including fill pad, potential stockpiles and pumphouse (Lot 11 DP 755902)

This area includes filling across the western portion of the compound (fill pad) and the footprint of the previous buildings and structures, potential stockpiles, pump house and crop area located in the eastern portion of the compound.

AEC 7 – Large stockpiles likely associated with new road construction (Lot 52 DP 1293369)

Large stockpiles located to the east of Bevian road in the central portion of the site, likely associated with the construction of the new roads, require investigation to determine the composition and contamination status of the comprising materials.

On-site surface waters (creeks, dams, wetland) and their associated sediments were also identified as requiring further investigation, along with groundwater beneath the site.

6.2 Contaminants of Potential Concern

To comprehensively characterise the site and based on the activities historically undertaken in the surroundings of the site and the site walkover, the following contaminants of potential concern (COPC) were identified.

Table 4: *Identified COPC and the associated AECs*

AECs	Media	Contaminants of Potential Concern (CoPCs)
AEC 1 – Above Ground Storage Tanks (Lot 11 DP 755902)	Soil, groundwater	Total Recoverable Hydrocarbons (TRH), Benzene, Toluene, Ethylbenzene, Xylene, Naphthalene (BTEX), Polycyclic Aromatic Hydrocarbons (PAHs), Phenols
AEC 2 – Location of former cheese factory, including the underground concrete tank (Lot 11 DP 755902)	Soil, groundwater	Heavy metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc), TRHs, BTEXN, PAHs, Organochlorine/Organophosphorus Pesticides (OC/OPPs), Polychlorinated Biphenyls (PCBs), Asbestos
AEC 3 – Location of former dairy and cattle yards (Lot 213 DP 755902)	Soil, groundwater	Heavy metals, TRHs, BTEXN, PAH, OC/OPPs, PCBs, Asbestos
AEC 4 – Area of identified asbestos scatter (Lot 11 DP 755902)	Soil	Asbestos
AEC 5 – area immediately surrounding abandoned car (Lot 72 DP 755902)	Soil	Heavy metals, TRHs, BTEXN, PAHs
AEC 6 – former nursery compound, including fill pad, potential stockpiles and pump house.	Soil, groundwater	Heavy metals, TRHs, BTEXN, PAH, OC/OPPs, PCBs, Asbestos
AEC 7 – large stockpiles associated with new road construction	Soil	Heavy metals, TRH, BTEXN, PAHs, OC/OPPs, Asbestos

AECs	Media	Contaminants of Potential Concern (CoPCs)
On-site creeks, dams and Burri wetland	Water	Heavy metals, TRHs, BTEXN, PAH, OC/OPPs, PCBs.
Groundwater	Water	Heavy metals, TRHs, BTEXN, PAH, OC/OPPs, PCBs.

6.3 Exposure Pathways and Receptors

For a contaminant to pose a risk to either human health and/or the environment, there must be a potentially complete or complete pathway between the contaminant and the receptor. Identified receptors at the site are as follows:

- Future construction workers engaged as part as the development.
- On-site workers associated with the current and future use of the site.
- Groundwater.
- Ecological Receptors.

Common pathways for contaminants to migrate through the environment and result in exposure to receptors are summarised in **Table 5** below.

Table 5: *Summary of Exposure Pathways*

Pathway	Contaminants of Concern	Exposure Pathway Complete or Potentially Complete (Yes/No)	Comments
Direct Contact with Soil and Sediments including dermal contact and ingestion	TRH, BTEX, PAH, Heavy Metals, OCP, OPP, PCB, Phenols	Potentially Complete	Should the soil within the identified AECs be impacted, then there is potential that current and future users of the site, construction workers and fauna may have direct contact to the impacted soil.
Direct Contact with Groundwater including dermal contact and ingestion	TRH, BTEX, PAH, Heavy Metals, OCP, OPP, PCB, Phenols	Potentially Complete	Due to the shallow depth of groundwater in the southern portion of the site, exposure to groundwater during excavation and construction works is likely.
Direct Contact with Surface Waters including dermal contact and ingestion	TRH, BTEX, PAH, Heavy Metals, OCP, OPP, PCB, Phenols	Potentially Complete	Given that the waterways will remain on-site as part of the proposed development, direct contact may occur.
Inhalation of Asbestos Fibres	Asbestos	Complete	Asbestos fragments were identified on the ground surface of the former dairy during this site visit. The site history review indicates the potential for further asbestos to be present within the soil profile in other locations.
Inhalation of gasses and vapour	TRH, BTEX, PAH	Incomplete	No storage of volatile compounds was identified during the site visit and, if present, are unlikely to be present at volumes that may pose a risk.

In its current condition, there are potentially complete contaminant exposure pathways which are contingent on whether COPCs are present.

7. Data Quality Objectives

This section outlines the data quality objectives (DQOs) applied to the investigation.

The DQO process is a planning tool that relies on scientific methods for establishing criteria for data quality and for designing data collection programs. The DQO defines the experimental process required to test a hypothesis. The DQO process aims to ensure that efforts relating to data collection are cost-effective, by eliminating unnecessary, duplicative or overly precise data whilst at the same time, ensuring the data collected is of sufficient quality and quantity to support defensible decision making.

The DQO process consists of seven steps, which are designed to clarify the study objectives, define the appropriate type of data and specify tolerable levels of potential decision errors. The seven-step DQO process adopted for this investigation is as follows:

Step 1: State the Problem – concisely describe the problem to be studied. Review prior studies and existing information to gain a sufficient understanding to define the problem;

Step 2: Identify the Decision – identify what questions the study will attempt to resolve, and what actions may result;

Step 3: Identify the Inputs to the Decision – identify the information that needs to be obtained and the measurements that need to be taken to resolve the decision statement;

Step 4: Define the Study Boundaries – specify the time periods and spatial area to which decisions will apply. Determine when and where data should be collected;

Step 5: Develop a Decision Rule – define the statistical parameter of interest, specify the action level, and integrate the previous DQO outputs into a single statement that describes the logical basis for choosing among alternative actions;

Step 6: Specify Tolerable Limits on Decision Errors – define the decision maker's tolerable decision error rates based on a consideration of the consequences of making an incorrect decision; and

Step 7: Optimise the Design –evaluate information from the previous steps and generate alternative data collection designs. Choose the most resource-effective design that meets all DQOs.

The DQOs derived for the investigation are presented in **Table 5.**

Table 6: *DQOs derived for the Investigation*

Step	Details
Step 1: State the Problem	The site has been used for activities that have the potential to introduce contaminants into the environment, particularly for the storage of fuel, manufacturing and agricultural uses.
Step 2: Identify the Decision	The suitability of the site is to be assessed for future development from a contamination perspective. The site would be assessed as suitable should concentration of COPCs be below the adopted criteria.
Step 3: Identify the Inputs into the Decision	The COPCs selected are based on the review of previous on- and off-site historical uses and activities (see **Section 2**, **Section 3** and **Section 4** for details). The site comprises the following zonings: • R2: Low density residential • RU1: Primary production

Step	Details
	• E4: Environmental living • E2: Environmental Conservation Based on the project brief, it is understood that the site will be used for residential and parkland uses. Therefore, the following assessment criteria from the National Environment Protection Council (NEPC) '*National Environment Protection (Assessment of Site Contamination) Measure 1999*' (revised in 2013; ASC NEPM 2013) has been selected: • Health Based Investigation Levels for Residential (HIL A) • Health Based Screening Levels for Low Density Residential (HSL A) • Ecological Investigation Levels (EIL) for Urban Residential/Public Open Space • Ecological Screening Levels (ESL) for Urban Residential/Public Open Space Selected assessment criteria based on the proposed development (see **Section 9**).
Step 4: Define the Site Boundaries	The investigation is limited to the site boundary shown in **Appendix A: Figure 2**. The vertical boundary of the site was 2.1 m below ground level (bgl which was the maximum borehole depth. It is also noted that the results of the assessment are limited to the condition of the site during the period when the site investigation work was completed.
Step 5: Develop a Decision Rule	• If review of previous investigations reports identified data gaps and/or potentially contaminating activities that require further investigations and/or management. • If site inspections identified signs of recent contamination, then further assessment to assess the potential contamination will be required, to determine the management actions required. • If the laboratory quality assurance / quality control data are within acceptable ranges, the results will be considered suitable for use. • If the concentrations of contaminants in samples analysed exceed the adopted assessment criteria, further investigation for delineation may be required to determine the remediation/management required. • If analytical results for COPCs are below the adopted criteria for the adopted assessment criteria, then the soil condition on-site would be considered not impacted by potential contaminating activities.
Step 6: Specify Tolerable Limits	The tolerable limits for the investigation adopted for quality assurance/quality control (QA/QC) purposes are as follows: • The relative percentage difference (RPD) for laboratory duplicates is as per the laboratory's quality assurance targets accepted under their NATA accreditation. • Recovery of matrix spikes and surrogate spikes is as per the laboratory's Quality Assurance targets accepted under their NATA accreditation. The tolerable limits for field QA/QC and duplicates data are as follows: RPD criteria of 30% or less, for concentrations > or = 5 times PQL.
Step 7: Optimise the Design	The investigation program for this assessment is detailed in **Section 8** to adequately characterise the identified risks of contamination across the site (**Section 3** and **Section 4**) and in general accordance with the NSW EPA (2022) 'Contaminated Land Guidelines – Sampling Design Part 1 - Application 'Sampling Design Guidelines'.

Step	Details
	As a summary, samples collected from soil, surface waters and groundwater were collected to assess potential impacts across the site.

8. Sampling, Analysis and Quality Plan

Details of the sampling and analytical plan adopted to meet the project objectives are presented in the following sections.

8.1 Chronology of Events

The chronology of key project events is summarised in **Table 7** below:

Table 7: *Summary of the Chronology of Works*

Date	Event
11 – 15 December 2023	Background soil, sediment and surface water sampling across the site. Installation and development of groundwater wells.
18 January 2024	Borehole advancement and soil sampling within the identified AECs. Survey of groundwater wells and deployment of groundwater samplers.
29 January 2024	Retrieval of groundwater samples.
19-20 December 2023	Receipt of laboratory results for background soil, sediment and surface water samples.
23 January 2023	Receipt of laboratory results for soil samples collected within the AECs.
1 February 2024	Receipt of laboratory results for groundwater samples.
05 April 2024	Issue of DSI report

8.2 Sampling Plan

8.2.1 Soil

Considering the identified potential contamination risks, the sampling plan follows a combination of low and high density, systematic sampling across the site, in general accordance with the NSW EPA (2022) Contaminated Land Guidelines – Sampling Design Part 1 – Application'.

Table 8: *Summary of AEC sample plan*

AEC	Approximate size of area (ha)	Number of sample locations	Recommended number of Sample locations	Comment
AEC 1 – former above ground fuel storage tank	NA	5	-	Targeting location of former fuels storage tank.
AEC 2 – former cheese factory	0.4	8	11	Given the known location of the potential contamination source within the area, the number of sample locations was considered suitable to identify any potential contamination.
AEC 3 – former dairy and cattle yards	0.18	8	8	In accordance with guideline
AEC 4 – asbestos scatter	0.08	8	8	In accordance with guideline
AEC 5 – abandoned car	NA	1	-	Number of samples considered suitable to

AEC	Approximate size of area (ha)	Number of sample locations	Recommended number of Sample locations	Comment
				detect any potential contamination.
AEC 6 – former nursery compound	2.2	9	35	Based on the agricultural history (nursery) of the site and the identified risks, the lower systematic sampling density is considered suitable for this assessment to identify potential contamination on the site.

Seventy-seven (77) background samples were collected from across the site (not including the AECs) on a systematic, grid basis. It is noted that 77 sample locations are less than the recommended sampling density for a site of 180 hectares, however, based on agricultural history of the site and the identified risks included in the AECs, the lower systematic sampling density is considered suitable to assess the unlikely presence of any potential contamination.

Based on the history of the site and identified risks, samples were planned to a maximum depth of 0.6 m below ground level (bgl) for the background soil samples and 2.1 m bgl for the AECs.

Soil samples were also collected during the drilling of groundwater wells.

Soil samples were collected at the surface (0.0-0.1 m), 0.5 m. 1.0 m and each metre thereafter, at changes in lithology of from lenses of gross contamination.

The soil sampling plans are presented in **Figures 3a and 3e to g**, **Appendix A**.

8.2.2 Surface Water & Sediment

Surface water and sediment samples were collected from the agricultural dams, creeks and Burri (Bevian) wetland at the site, as outlined below:

- Agricultural dams – 6 sediment and 6 surface water samples.
- Creeks and tributaries – 12 sediment and 12 surface water samples.
- Wetland – 1 sediment and 1 surface water samples.

Where no water was present at the sample location, only the sediment in the base of the creek or tributary would be collected.

The surface water and sediment sampling plans are presented in **Figures 3ba and 3d**, **Appendix A**.

8.2.3 Groundwater

Considering the identified potential contamination risks and scale of the site, eight groundwater wells were installed for sampling across the site to target the following:

Table 9: *Purpose of groundwater well locations*

Well ID	Purpose
GW1	Target AEC 2 – former cheese factory and assess flow at eastern boundary of the site.
GW2	Target AEC 6 and assess flow from north-east section of site.
GW3	Target AEC 1 – former above-ground fuel tank
GW4	Target AEC 3 – former dairy and cattle yards and assess flow from north-west portion of the site.
GW5	Assess flow from north-east portion of site.
GW6	Assess flow from central portion of site.
GW7	Assess flow from the south-west portion of the site and residential properties offsite.
GW8	Target offsite water treatment plant and assess flow from south-east portion of the site.

Groundwater well locations are presented in **Figures 3c**, **Appendix A**.

8.2.4 Quality Assurance / Quality Control

For quality assurance / quality control (QA/QC) purposes, the following samples were collected in accordance with AS4482.1 (2005).

- One (1) field duplicate sample for each twenty (20) soil samples to be analysed by the primary laboratory to assess the precision of the results for the following matrices:
    - Soil
    - Sediment
    - Water
- One (1) field duplicate sample for each twenty (20) primary samples to be analysed by the primary laboratory to assess the precision of the results for the following matices:
    - Soil
    - Sediment
    - Water

The QA/QC analytical plan was considered appropriate for the investigation.

8.3 Analytical Plan

From the samples collected across the site, the analytical plan presented in **Table 10** was executed to assess the identified COPCs.

Table 10: *Analytical plan for the investigation*

Sample Type	Sample Media	TRH	BTEX	PAH	OPP/OCP	PCB	Phenols	Heavy Metals	Asbestos in Soil	Cation Exchange Capacity (CEC)
Primary	Soil	114	114	114	109	109	109	114	32	7
Duplicate	Soil	6	6	6	4	4	4	4	0	0
Triplicate	Soil	6	6	6	4	4	4	4	0	0

Sample Type	Sample Media	TRH	BTEX	PAH	OPP/OCP	PCB	Phenols	Heavy Metals	Asbestos in Soil	Cation Exchange Capacity (CEC)
Primary	Water	27	27	27	27	27	27	27	0	0
Duplicate	Water	3	3	3	3	3	3	3	0	0
Triplicate	Water	3	3	3	3	3	3	3	0	0
Primary	Sediment	22	22	22	22	22	22	22	0	0
Duplicate	Sediment	2	2	2	2	2	2	2	0	0
Triplicate	Sediment	0	0	0	0	0	0	0	0	0

9. Assessment Criteria

The assessment criteria adopted for the investigation was determined from the residential zoning of the site being the more sensitive. Therefore, the following criteria has been adopted from the ASC NEPM 2013 and details of the criteria are presented in the following sections.

9.1 Soil Assessment Criteria

The assessment criteria to be adopted for soil materials are as follow:

- Health Based Investigation Levels for Residential sites (HIL A).
- Health Based Screening Levels for Low Density Residential (HSL A) for a clay lithology and depths of 0 m to <1 m and 0 m to <2 m below ground level. This assumption is considered appropriate based on the predominant soil observed on site.
- Ecological Investigation Levels (EIL) for aged contaminants in Urban Residential/Public Open Space.
- Ecological Screening Levels (ESL) for Urban Residential/Public Open Space for fine soil based on clayey texture.
- Health Based Investigation Levels for Residential Sites where:
    - 0.01 %w/wt asbestos for bonded ACM
    - 0.001 %w/wt asbestos for asbestos fines (AF) and fibrous asbestos (FA).
- United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSL) were adopted in the absence of available national criteria using target hazard quotients (THQ) of 1.0 for residential use (health) as a conservative approach.

It is noted that the laboratory limit of reporting for the NATA accredited analytical method is 0.01 %w/wt which is greater than the adopted criteria of 0.001 %w/wt for AF and FA. Therefore, where asbestos is detected at trace concentrations in the soil, it will be assumed that asbestos exceeds the criterion value.

EIL criteria were derived based on an average calculation of the results of 7 soil samples analysed by the laboratory for cation exchange capacity (CEC), pH and clay content from across the site. The calculated values are presented in **Table 11** below (see **Appendix B**: **Table 1** for individual tabulated results).

Table 11: *Used Physicochemical Properties*

Physicochemical Property	Unit	Value
pH	pH Unit	5.6
CEC	meq / 100g	10.1
% Clay	%w / w	5

The EIL criteria were calculated using the ASC NEPM 2013 EIL Interactive (Excel) Calculation Spreadsheet using values for aged contaminants. Results of the EIL calculations are presented in **Appendix E**.

These criteria are shown in **Table 12**.

Table 12: *Soil Assessment Criteria*

Contaminant Group	HIL/HSL – A (mg/kg)	EIL – Urban Residential & Public Open Space (mg/kg)	ESL – Urban / Residential (mg/kg)
Heavy Metals			
Arsenic	100	100	-
Cadmium	20	-	-
Chromium (III)	100	410	-
Copper	6,000	160	-
Lead	300	1,100	-
Nickel	400	170	-
Zinc	7,400	370	-
Mercury	40	-	-
OCP/OPP			
Aldrin and Dieldrin	6	-	-
Chlordane	50	-	-
DDT	-	180	-
DDT+DDD+DDE	240	-	-
Endrin	10	-	-
HCB	10	-	-
Heptachlor	6	-	-
Malathion*	0.3	-	-
Methoxychlor	300	-	-
Mirex	10	-	-
Chlorpyrifos	160	-	-
TRH and BTEX			
TRH C_6-C_{10} – BTEX (F1)	50	-	180
TRH >C_{10}-C_{16} – Naphthalene (F2)	-	-	120
TRH >C_{16}-C_{34} (F3)	-	-	1,300
TRH >C_{34}-C_{40} (F4)	-	-	5,600

Contaminant Group	HIL/HSL – A (mg/kg)	EIL – Urban Residential & Public Open Space (mg/kg)	ESL – Urban / Residential (mg/kg)
Benzene	0.7	-	65
Toluene	480	-	105
Ethylbenzene	-	-	125
Xylenes	110	-	45
PAH and PCB			
Total PAH	300	-	-
Benzo(a)pyrene	-	-	0.7
Carcinogenic PAHs as B(a)P TEQ	3	-	-
Naphthalene	5	170	-
Total PCB	1	-	-
Phenols			
Phenol	3,000	-	-
Pentachlorophenol	100	-	-
Cresols	400	-	-
Asbestos			
Bonded ACM	0.01%	-	-
FA and AF (friable asbestos)	0.001%	-	-
All forms of asbestos	No visible asbestos for surface soil	-	-

Notes:

- NL denotes non-limiting.
- ESL for Carcinogenic PAH provides concentration for Benzo(a)pyrene only.
- ACM denotes asbestos containing material.
- * adopted from USEPA RSLs

9.2 Sediment Assessment Criteria

The National Water Quality Management Strategy (Australian and New Zealand Guidelines for Fresh and Marine Water Quality) 2000 (ANZG 2000) provides guidelines (Interim Sediment Quality Guidelines) to identify sediment contamination issues for the protection of aquatic ecosystems and the protection necessary to manage them. The <2 mm sediment particle size fraction was used for chemical analysis for comparison with the sediment quality guidelines.

United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSL) were adopted in the absence of available national criteria using target hazard quotients (THQ) of 1.0 for residential use (health) as a conservative approach.

The adopted assessment criteria are presented in the **Appendix B, Table 3.**

9.3 Surface Water & Groundwater Criteria

The assessment criteria to be adopted for groundwater and surface water to assess the potential contamination risk to human and ecological health:

- ANZG 2018, *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. Australian and New Zealand Governments and Australian State and Territory Governments, Canberra ACT – Toxicant Default Guideline Values for 95% species protection in freshwater. It is noted that the Groundwater Investigation Levels for fresh water under ASC NEPM are similar to the ANZG 2018 levels.
- NHRMC 2011, *Australian Drinking Water Guideline – Version 6 (August 2018)* (ADWG 2011).
- *ASC NEPM 2013*, HSL A Vapour Intrusion criteria for residential land use for sand lithology (conservative approach).

The following criteria were adopted in the absence of available national criteria

- United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSL) using target hazard quotients (THQ) of 1.0 for residential use (ingestion) as a conservative approach.
- Health Canada, Environment and Climate Change Canada, May 2016.

The adopted assessment criteria are presented in the **Appendix B, Tables 4 and 5.**

10. Methods

A suitably qualified and experienced environmental scientist and an excavation subcontractor was mobilised to the site with appropriate equipment to undertake the field investigations required. The methodology adopted is presented in this section.

10.1 Soil Sampling

- All background boreholes (BH1 to BH77) were drilled with the aid of an electric powered hand auger.
- Borehole samples were collected at the surface (0.0-0.1 m) and 0.5 m below ground level (bgl) which was the target depth.
- A new, clean pair of single-use nitrile gloves were used to extract each soil sample directly from the auger where it was then placed in a laboratory supplied 250 mL glass jar with a screw top, Teflon lined cap.
- Four (4) duplicate and four (4) triplicate sample were collected for QA/QC purposes.
- Each sample was labelled including the sample name, the job number, the date of sample and the sample depth.
- For asbestos analysis, a 300 grams sample of soil was placed was placed in a zip lock plastic bag.
- Each soil sample was described in general accordance with the Unified Soil Classification System (USCS) and details of any discolouration, staining, odours or other indicators of contamination noted.
- All samples were immediately placed and stored in an ice-filled esky to keep them chilled. Samples were transported to a NATA accredited laboratory with the signed chain of custody (COC) form with the required analysis (**Appendix H**).

10.2 Sediment Sampling

- Sediment samples were collected from each location by a suitably qualified environmental scientist with the aid of a shovel.
- Where sediment samples were collected from a dam, the sample was collected beneath the water level at each location.
- Sediment samples collected from the drainage channels/creeks were obtained with the hand auger with samples collected from the surface and then at 0.5 m bgl.
- Samples were placed directly into a 250 mL glass jar with a screw top lid.
- Each soil sample was described in general accordance with the Unified Soil Classification System (USCS) and details of any discolouration, staining, odours or other indicators of contamination noted.
- Samples were placed into an ice-filled esky and sent to a NATA accredited laboratory for analysis.

10.3 Surface Water Samples

- Water samples were collected from each location by a suitably qualified environmental scientist with the aid of a telescopic sampling pole with a HDPE container at the end of the pole to collect the water from approximately 10 cm below the water level. The HDPE collection container was replaced after each use.

- Water samples were transferred into clean laboratory supplied containers and labelled with the project number, sample name and date of sampling.
- Samples were placed into an ice-filled esky and sent to a NATA accredited laboratory for analysis.

10.4 Groundwater Samples

- Prior to hydrasleevee installation, the wells were gauged using a calibrated interface probe (see **Appendix G**) and redeveloped with a weighted bailer to remove any accumulated sediments at the bottom of the wells.
- After redeveloping the wells, they were left to settle for a minimum of 1 week prior to the installation of a hydrasleeve.
- The hydrasleeve was assembled with a bottom weight and clip and tether at the top.
- The hydrasleeve was slowly lowered into the well and placed so that the top of the hydrasleeve is situated within the lower portion of the screened interval.
- The length of the screen above the top of the hydrasleeve was at least the length of the hydrasleeve.
- The hydrasleeves were tethered to the well cap to be kept in place.
- After installation of the hydrasleeves, wells were left to equilibrate for 1 week prior to sampling.
- After equilibration and prior to sampling the standing water level of each well was measured.
- To retrieve the hydrasleeve, the tether was rapidly pulled in one smooth motion to open the top valve and collect the sample from within the screened well interval. Once the hydrasleeve is filled, the top valve was closed and no additional water from above the screen was sampled.
- The sample was discharged using a discharge tube directly into each laboratory prepared sample container. Each container was labelled with a unique sample identifier and date and placed into an ice-cooled esky for transport to a NATA accredited laboratory for analysis.
- The remaining sample was used to measure field water quality parameters using a calibrated water quality meter, which included temperature, electric conductivity (EC), pH, dissolved oxygen (DO) and redox potential (redox).
- Decontamination procedures applied on-site are provided in **Section 10.5.**
- Calibration certificates for field equipment used for groundwater sampling are included in **Appendix E.**
- The collar of monitoring wells was surveyed by a licensed surveyor (see **Appendix F**).

10.5 Decontamination Procedure

The following methods were adopted to minimise the potential for cross-contamination between samples:

- A clean new pair of nitrile gloves and samples were placed directly into the laboratory supplied containers.
- When collecting samples from the auger flights, care was taken to collect samples from soil not touching the flights.
- The auger flights were brushed clean between samples.
- Where water samples were collected, a clean HDPE container was used for each sample.

11. Quality Assurance (QA) and Quality Control (QC) Plan

11.1 Field QA/QC

Field duplicates and triplicates were collected for calculating the relative percent difference (RPD) and assess the precision and accuracy of the laboratory for each media (soil, sediment and water). An RPD of less than 30% is considered acceptable where the analyte concentration is greater than five (5) times the laboratory LOR. Should the RPD be greater than 30%, then further investigation as to the reason for high RPD would occur.

Soil

Six field duplicate and five field triplicate samples were collected for calculating the relative percent difference (RPD) for soil.

The duplicate and triplicate samples were collected with the following primary samples:

- QC1 and QC2 (12 December 2023) were collected with primary sample BH20 0.0-0.1
- QC3 and QC4 were collected with primary sample BH40 0.0-0.1
- QC5 and QC6 were collected with primary sample BH60 0.0-0.1
- QC7 was collected with primary sample BH77 0.0-0.1
- QC1 and QC2 (18 January 2024) were collected with primary sample LC19 0.0-0.1
- QC3 and QC4 (19 January 2024) were collected with primary sample LC24 0.0-0.1

The results of the RPD calculation for each analyte were less than 30% and/or with concentrations less than five (5) times the LOR. A summary of the RPDs is tabulated below:

Table 13: *Summary of RPDs*

Sample Type	Number of samples	Target	Actual	Criteria Met (Yes/No)
Primary samples	114			
Duplicate (QA/QC)	6	≥ 5%	5.2%	Yes
Triplicate (QA/QC)	5	≥ 5%	4.3%	No
Total RPDs	537			
Total RPDs > 5x LOR & > 30%	8	≤ 5%	1.4%	Yes

Field QAQC criteria was met for soil analysis, with the exception of the number of triplicate samples analysed. The remaining RPD results indicate that the soil data is considered suitable and reliable for the investigation.

The soil QA/QC results and calculated RPDs are presented in **Appendix B: Table 6**.

Sediment

Two field duplicates were collected for sediment. No field triplicate samples were analysed for sediment due to the external laboratory not conducting the same methodology of analysis to provide an accurate comparison.

The duplicate and triplicate samples were collected with the following primary samples:

- QC9 was collected with primary sample CS-9-S
- QC11 was collected with primary sample CS-10-S

The results of the RPD calculation for each analyte were less than 30% and/or with concentrations less than five (5) times the LOR. A summary of the RPDs is tabulated below:

Table 14: *Summary of RPDs*

Sample Type	Number of samples	Target	Actual	Criteria Met (Yes/No)
Primary samples	22			
Duplicate (QA/QC)	2	≥ 5%	9%	Yes
Triplicate (QA/QC)	NA			
Total RPDs	223			
Total RPDs > 5x LOR & > 30%	0	≤ 5%	0%	Yes

Field QAQC criteria was met for sediment analysis; therefore the soil data is considered suitable and reliable for the investigation.

The sediment QA/QC results and calculated RPDs are presented in **Appendix B: Table 7**.

Water

Three field duplicate and three field triplicate samples were collected for calculating the relative percent difference (RPD) for soil.

The duplicate and triplicate samples were collected with the following primary samples:

- QC1 and QC2 (15 December 2023) were collected with primary sample DS4
- QC3 and QC4 were collected with primary sample DS9
- QC1 and QC2 (29 January 2024) were collected with primary sample GW2

The results of the RPD calculation for each analyte were less than 30% and/or with concentrations less than five (5) times the LOR. A summary of the RPDs is tabulated below:

Table 15: *Summary of RPDs*

Sample Type	Number of samples	Target	Actual	Criteria Met (Yes/No)
Primary samples	26			
Duplicate (QA/QC)	3	≥ 5%	11.5%	Yes
Triplicate (QA/QC)	3	≥ 5%	11.5%	Yes
Total RPDs	322			
Total RPDs > 5x LOR & > 30%	9	≤ 5%	2.8%	Yes

Field QAQC criteria was met for water analysis; therefore, the water data is considered suitable and reliable for the investigation.

The soil QA/QC results and calculated RPDs are presented in **Appendix B: Table 8**.

A trip blank sample (TB) was collected at the beginning of the day of groundwater sample collection (29th January 2024) to assess whether the samples may have had exposure to any volatile contaminants during field work or transportation to the laboratory. All analysed contaminants remained below the laboratory LOR, suggesting that the samples had not been exposed to any cross contamination during field or transportation procedures.

11.2 Laboratory QA/QC

A review of the laboratory QA/QC data is summarised below.

Table 16: *Summary of laboratory QA/QC*

Report Number	Sample Name	Analyte	Non-compliance
SE258531	CS1	Mercury (dissolved in water), Speciated Phenols in Water, VOCs in water, Volatile Petroleum Hydrocarbons in Water	Extraction and analysis time outside acceptance criteria
SE258531	CS1, CS3, CS5, CS6	OC Pesticides in Water, OP Pesticides in Water, PAH in Water, PCBs in Water, TRH in Water	Extraction time outside acceptance criteria
ME346357	All samples (SE258533.001 to SE258533.024)	SVOCs in Solids/Soils, SVOC Pesticides in Solids/Soils, Moisture Content	Extraction time outside acceptance criteria
ME346357	SE258533.012, SE258533.013, SE258533.016, SE258533.024	SVOCs All in Solids/Soils	Surrogate outside acceptance criteria.
ME346357	LB071559.002, LB071559.028	SVOCs All in Solids/Soils (Acenaphthene and Aldrin)	Laboratory Control outside acceptance criteria.
ME346357	LB071559.005	SVOCs All in Solids/Soils (4,4-DDT, Acenaphthene and Aldrin)	Majority of spike recoveries are within acceptance criteria.
SE258534	SE258534.001, SE258534.011, SE258534.020, SE258534.033	Exchangeable Cations and Cation Exchange Capacity	Late extraction & analysis
SE258534	SE258534.007 to SE258534.033	Mercury in Soil	Late analysis
SE258534	SE258534.007 to SE258534.033	Moisture Content	Late analysis
SE258534	SE258534.001, SE258534.011, SE258534.020, SE258534.033	pH in Soil	Late extraction
SE258534	All samples (SE258534.001 to SE258534.001.033)	VOCs in Soil, Volatile Petroleum Hydrocarbons in Soil	Late analysis
SE258534	SE258534.027	PAH in Soil (d5-nirobenzene)	At least 2 of 3 Surrogates are within acceptance criteria.
SE258534	SE258534.003, SE258534.004	Speciated Phenols in Soil (2,4,6-Tribromophenol)	Recovery failed acceptance criteria due to matrix interference.
SE258534	SE258534.023	Speciated Phenols in Soil (d5-phenol)	Surrogate outside acceptance criteria.
SE258534	LB300381.004	Total Recoverable Elements in Soil/Waste	Recovery failed acceptance criteria

Report Number	Sample Name	Analyte	Non-compliance
		Solids/Materials (Copper, Zinc)	due to matrix interference.
SE258534	LB300366.004	TRH in Soil (TRH C10-14, TRH C15-C28, TRH>C10-C16, TRH>C16-C34)	Recovery failed acceptance criteria due to matrix interference.
SE258534	SE258534.007/LB300371.004	VOCs in Soil (d8-toluene), Volatile Petroleum Hydrocarbons in Soil (d8-toluene)	At least 2 of 3 Surrogates are within acceptance criteria.
SE258534A	SE258534A.011, SE258534A.014, SE258534A.019, SE258534A.020, SE258534A0.21, SE258534A.029	TRH Silica Gel	Late extraction
SE258536	SE258536.009, SE258536.026, SE258536.037	Exchangeable Cation and Cation Exchange Capacity	Late extraction & analysis
SE258536	All Samples (SE258536.001 to SE258536.048)	Mercury in Soil, Moisture Content	Late analysis
SE258536	SE258536.009, SE258536.026, SE258536.037	pH in Soil	Late extraction
SE258536	SE258536.001 to SE258536.024	VOCs in Soil, Volatile Petroleum Hydrocarbons in Soil	Late analysis
SE258536	SE258536.022	PAH in Soil (d5-nitrobenzene)	At least 2 of 3 Surrogates are within acceptance criteria.
SE258536	SE258536.031, SE258536.045, SE258536.046	VOCs in Soil, Volatile Petroleum Hydrocarbons in Soil (d4-1,2-dichloroethane),	At least 2 of 3 Surrogates are within acceptance criteria.
SE258536	SE258536.030/LB3000383.024 SE258536.040/LB3000384.014	Total Recoverable Elements in Soil/Waste Solids (Zinc, Lead)	RPD failed acceptance criteria due to sample heterogeneity

Report Number	Sample Name	Analyte	Non-compliance
SE258536	SE258536.031/LB3000369.004	TRH in Soil (TRH C10-C14, TRH C15-C28, TRH C29-C36, TRH>C10-C16, TRH>C16-C34)	Recovery failed acceptance criteria due to matrix interference
SE258536	SE258536.031/LB3000369.004	VOCs in Soil, Volatile Petroleum Hydrocarbons in Soil (d8-toluene)	At least 2 of 3 Surrogates are within acceptance criteria.
SE258536A	All Samples (SE258536A.008, SE258536A.015, SE258536A.022, SE258536A.025, SE258536A.030, SE258536A.038, SE258536A.043)	TRH Silica Gel in Soil	Late extraction
SE259897	All Samples (SE259897.001 to SE259897.010)	OC Pesticides in Water, OP Pesticides in Water, PAH in Water, PCBs in Water, TRH in Water	Late extraction
SE259897	SE259897.012/LB303228.025	VOCs in Water, Volatile Petroleum Hydrocarbons in Water (d4-1,2-dichloroethane)	Laboratory Duplicates outside acceptance criteria

Holding Times

Although several tests were either extracted or analysed outside of the recommended holding, times as outlined in the table above. Considering the results of the tests completed within holding times are comparable it is not expected that the late extraction or analysis have impacted the outcome of the investigation.

Surrogate and Spike Recoveries

The laboratory advised that for the surrogates or spike recoveries outside of the criteria, at least 2 of 3 surrogates were within the acceptance criteria. For the analytes that did not have at least 2 of the 3 surrogates within the acceptance criteria (SVOCs and phenol) both were observed below the laboratory LOR in the primary samples, the exceedances were not considered to affect the results of this investigation.

Laboratory Control Sample Results

All laboratory control sample results were within the tolerable limits, with the exception of two samples as outlined in the table above for acenaphthene and aldrin. Given that acenaphthene and aldrin were observed below the laboratory LOR in the primary samples, the exceedances were not considered to affect the results of this investigation.

Laboratory Duplicate Results

The duplicate sample RPDs were within the tolerable range with the exception of one sample for VOC's in water. Based on the comments provided by the laboratory, the exceedances were due to sample heterogeneity. Considering the nature of the material, the exceedance is not considered to have impacted the outcome of this investigation.

Laboratory Blank Results

All method laboratory blanks were below the laboratory LOR and therefore within tolerable limits.

Laboratory Accreditation

All analysis was performed in NATA accredited laboratory as follow:

- **Primary Laboratory:** SGS Australia Pty Ltd (NATA accreditation No. 2562)
- **Secondary Laboratory:** Envirolab Services Pty Ltd (NATA accreditation No. 2901)

12. Results and Discussion

The findings from site inspection and laboratory analytical results of the investigation are presented in the following sections.

12.1 Visual Observations / Field Measurements

12.1.1 Soil

Topsoil comprising variations of gravels, sands, silts and clays was observed in most boreholes across the site to depths varying between 0.2 to 0.7 m below ground level (bgl).

Fill material was only observed within AEC1 (area surrounding former AST), and AEC 6 (former nursery) as outlined in the table below.

Table 17: *Summary of fill material*

Location	Fill Description	Depth (m)
AEC1 – former AST area		
LC9	Gravelly, clayey sand, brown, dry to moist, soft.	0-0.2
	Sandy, clayey silt, brown to pale brown, dry, soft.	0.2-1.1
LC10	Gravelly, sandy clay, brown to pale brown, dry to moist, soft, low plasticity.	0-0.2
	Sandy, clayey silt, brown to dark brown, dry to moist, soft.	0.2-0.4
LC11	Gravelly, sandy clay, brown to pale brown, dry to moist, soft to plastic.	0-0.2
LC12	Gravelly, sandy clay, brown to pale brown, dry to moist, soft to plastic.	0-0.2
	Gravelly, sandy clay, brown to dark brown, dry to moist, plastic.	0.2-0.4
LC13	Gravelly, sandy clay, brown, dry to moist, soft, plastic.	0-0.2
	Sandy, clayey silt, brown to dark brown, dry to moist, soft.	0.2-1.0
	Gravelly, clayey silt, brown, dry, soft.	1.0-2.0
AEC6 – Former nursery		
LC17	Clayey, sandy silt, pale brown to dark brown, dry to moist, soft. Traces of plastic film and cable.	0.2-1.0
LC18	Gravelly, sandy silt, pale brown to dark brown, moist, soft. PVC fragments.	0-0.4
LC19	Gravelly, sandy silt, pale brown to dark brown, moist, soft.	0-0.2
LC21	Sandy, silty clay, brown, moist, soft to plastic.	0.2-0.8

Asbestos containing materials (ACM) were observed on the surface of the site within AEC3 (former dairy) and AEC4 (identified asbestos scatter).

Natural materials mostly comprised combinations of gravelly, sandy and clayey silts. Natural materials were observed in all boreholes across the site. This material was described as a varying shade of brown

with occasional oranges, greys and yellows – including weathered siltstones fragments, traces of volcanic and sedimentary rock fragments and quartz fragments, in accordance with the underlying geology of the area (see **Section 5**).

Samples were generally collected from open grassy areas, although several were collected within dense bushland.

Burnt trees were observed in the vicinity of BH32, consistent with the bushfires that impacted the site in 2019/20.

PID concentrations of collected samples varied from 0.0 to 0.2 ppm, indicating low levels of volatile organic compounds.

Borehole details are provided in **Appendix F**.

12.1.2 Sediment

Sediment within the waterways across the site comprised mostly of sands, silts and clays which ranged from varying shades of brown. Organic odours and organic material were noted across the site sediments.

One sample (DS3-S) was collected from within a man-made drainage and wetland which comprised of brown, clayey gravel which was considered to be imported fill material.

PID concentrations of collected samples varied from 0.0 to 0.3 ppm, indicating low levels of volatile organic compounds.

Sediment sample details are provided in **Appendix G**.

12.1.3 Surface Water

Surface water sampled across the site included both flowing and stagnant waters, ranging from clear to brown and moderately turbid.

A biogenic sheen (i.e. non-petroleum) was observed at three sampling locations (CS3, CS12 and CS8). Field pH readings indicated that the waters were mildly acidic, ranging from 5.32 to 6.57 pH units. Field redox measurements ranged from -51.3 to 92.6 mV and dissolved oxygen ranged from 0.13 to 4.21 mg/L. Field electrical conductivity readings ranged from 291.0 to 1,101.0 µS/cm, indicating that the waters on site were freshwater.

Surface water sampling details are provided in **Appendix G**.

12.1.4 Groundwater

During the installation of groundwater wells across the site, groundwater interception ranged from approximately 2.5 m below ground level (bgl) at GW02 in the north-east portion of the site to 26.8 m bgl at GW04 in the central-northern portion of the site. Groundwater was intercepted within clays and gravelly, sandy clays beneath the site. Groundwater well construction logs are presented in **Appendix F**.

After stabilisation and at the time of sampling, standing groundwater levels ranged from 0.504 m bgl at GW08, located to the east of the lagoon, to 26.508 m bgl in GW04 in the central northern portion of the site. Reduced ground water levels were calculated for each well, giving a range of 4.757 m AHD at GW08 to the east of the lagoon and 25.65 m AHD at GW04 in the central-northern portion of the site.

The inferred groundwater flow direction was in a general south-east direction towards the Tasman Sea. The groundwater contour plan is presented in **Figure 5, Appendix A**.

Groundwaters beneath the site were fresh to brackish, with an electrical conductivity range from 480 µS/cm (GW02) to 12,722 µS/cm (GW07). The highest field electrical conductivity readings were noted close to the southern boundary of the site, adjacent to the wetland and noted to be approximately 750 m to the Tasman Sea. Field pH readings indicated that the groundwater was acidic, ranging from 4.95 pH units (GW2) to 6.45 pH units (GW3). Field redox measurements ranged from 90.1 mV (GW6) to 165.5 (GW5) and dissolved oxygen ranged 0.80 mg/L (GW07) to 2.79 mg/L (GW2).

Groundwater sampling details are provided in **Appendix G**.

12.2 Analytical Results

12.2.1 Soil

A total of one hundred and fourteen (114) primary soil samples were collected for analysis. A summary of the analytical results are presented in **Appendix B: Tables 1 and 2**, while copies of the laboratory reports, sample receipt and COCs are presented in **Appendix H**.

A brief summary of the results is presented below.

OCP/OPP, PCB, BTEX, PAH and Phenols

Concentrations of OCP/OPP, PCB, BTEX, PAH and Phenols were below the laboratory limit of reporting (LOR) (see **Appendix B: Table 1**) and therefore below the adopted assessment criteria for residential land use.

TRH

Detectable concentrations of TRH compounds were reported in the majority of background (i.e., soil samples collected outside of the AECs) samples, with the concentrations outlined below:

- TRH >C10-C16 (F2) = 39 mg/kg
- TRH >C16-C34 (F3) = 430 mg/kg
- TRH >C34-C40 (F4) = 180 mg/kg
- TRH >C10-C40 (sum) = 790 mg/kg
- TRH C15-C28 = 210 mg/kg
- TRH C29-C36 = 570 mg/kg
- TRH C10-C36 Total = 750 mg/kg

Sample LC33, collected from within AEC3 – the former dairy, reported detectable concentrations of TRH >C16-C34 F3 (110 mg/kg), TRH C15-C28 (61 mg/kg), TRH C29-C36 (70 mg/kg) and TRH C10-C36 (sum) (130 mg/kg).

However, all detectable concentrations of TRH were below the adopted criteria for residential land use.

A figure showing TRH >C10-C40 (Sum) concentrations for each soil location is presented in **Figure 4, Appendix A.**

Heavy Metals

Details of heavy metal concentrations were as follows:

- Concentrations of cadmium were below the laboratory LOR in each analysed sample, with the exception of LC25 0.0-0.1, collected from the surface of AEC2 – former cheese factory, which reported a concentration equal to the laboratory LOR (0.3 mg/kg) and was below the adopted assessment criteria.
- Concentrations of mercury were below the laboratory LOR in each analysed sample, with the exception of:
    - BH9 0.0-0.1
    - BH12 0.0-0.1
    - BH14 0.0-0.1
    - BH17 0.0-01
    - BH18 0.0-0.1
    - BH26 0.0-0.1
    - BH55 0.0-0.1
    - BH64 0.0-0.1
    - LC2 0.0-0.1
    - LC23 0.0-0.1
    - LC29 0.0-0.1

  The highest concentration of mercury reported was 0.07 mg/kg in LC23 0.0-0.1, collected from AEC2 – former cheese factory. Lanterra notes that the laboratory LOR for mercury was 0.05 mg/kg. All concentrations of mercury remained below the adopted assessment criteria.

- Concentrations of arsenic, chromium, copper, lead, nickel and zinc were detected above the laboratory LOR in each sample, although remained below the adopted assessment criteria. Maximum concentrations are provided below:
    - Arsenic = 15 mg/kg
    - Chromium = 150 mg/kg
    - Copper = 120 mg/kg
    - Lead = 26 mg/kg
    - Nickel = 87 mg/kg
    - Zinc = 400 mg/kg

  Given the low and widespread concentrations across the site, it is likely that heavy metals are the result of the natural composition of the soils.

Fibrous asbestos (FA), asbestos fines (AF) and asbestos containing materials (ACM)

No FA or AF were detected in any of the soil samples analysed. ACM was confirmed from 2 pieces of cement sheeting collected from AEC2 – former dairy and AEC4 – asbestos scatter. These results are presented in **Appendix B: Table 1 and 2**.

Silica Gel Cleanup

A silica gel cleanup was conducted by the laboratory on selected samples where TRH concentrations were above the laboratory LOR to assess whether the presence of TRH was of biogenic or petrochemical origin. The following soil (11) and groundwater (2) samples were selected for analysis:

- BH11 0.0-0.1

- BH14 0.0-0.1
- BH19 0.0-0.1
- BH20 0.0-0.1
- BH21 0.0-0.1
- BH29 0.0-0.1
- BH41 0.0-0.1
- BH48 0.0-0.1
- BH55 0.0-0.1
- BH58 0.0-0.1
- BH63 0.0-0.1
- BH71 0.0-0.1
- BH76 0.0-0.1
- GW2
- GW7

Results from the silica gel cleanup were all reported below the laboratory LOR (with the exception of sample BH20), which suggests that the origin of the TRHs was likely of biogenic origin. This is likely to be from the eucalypt trees both on and surrounding the site. Sample BH20, collected from the north-east corner of the site, reported remaining TRHs that were not absorbed by the silica gel cleanup, indicating that these may be of petrochemical source. Given there was an overall reduction of TRH in comparison of the original results to the silica gel cleanup results and that neither exceeded the adopted assessment criteria, TRHs were likely to be of biogenic origin and were not considered to be a contamination risk for the proposed residential development.

Tabulated silica gel cleanup results for soil are presented in **Appendix B, Table 1.**

12.2.2 Sediment

A total of twenty-three (23) primary sediment samples were collected for analysis. A summary of the analytical results is presented in **Appendix B: Table 3**, while copies of the laboratory reports, sample receipt and COCs are presented in **Appendix H**.

A brief summary of the results is presented below.

OCP/OPP, PCB, BTEX and Phenols

Concentrations of OCP/OPP, PCB, BTEX and Phenols were below the laboratory limit of reporting (LOR) (see **Appendix B: Table 3**) and therefore below the adopted assessment criteria for residential land use.

TRH

Detectable concentrations of TRH compounds were reported in nine (9) sediment samples, with the maximum concentrations outlined below:

- TRH >C16-C34 (F3) = 170 mg/kg
- TRH C15-C28 = 100 mg/kg
- TRH C29-C36 = 110 mg/kg
- TRH C10-C36 Total = 210 mg/kg

Each of the detectable concentrations of TRH were below the adopted assessment criteria for residential land use.

PAH

Concentrations of PAH compounds were below the laboratory LOR in each sample with the exception of DS10-S, collected from a dam located in the north-west portion of the site, which reported 0.007 mg/kg of fluoranthene. Due to the absence of any assessment criteria available, the USEPA regional screening level (RSL) for residential soil THQ=1.0 of 2,400 mg/kg was adopted, indicating that the reported concentration was not considered a risk to human health.

Heavy Metals

Details of heavy metal concentrations were as follows:

- Concentrations of cadmium were below the laboratory LOR in each analysed sample, therefore below the adopted assessment criteria.
- Concentrations of mercury were below the laboratory LOR in each analysed sample, with the exception of:
    - CS-2-S
    - CS-10-S

  Detectable mercury concentrations ranged from 0.05 mg/kg to 0.06 mg/kg which were at and slightly above the laboratory LOR of 0.05 mg/kg and remained below the adopted assessment criteria of 40 mg/kg for the protection of human health.

- Detectable concentrations of nickel were reported in all analysed samples. Concentrations were below the adopted assessment criteria in all samples, with the exception of CS-10-S (23 mg/kg), collected from a dam in the north-west portion of the site, which slightly exceeded the ISQG criteria of 21 mg/kg for the protection of aquatic ecosystems.

- Concentrations of arsenic, chromium, copper, lead and zinc were detected above the laboratory LOR in each sample although remained below the adopted assessment criteria. Maximum concentrations are provided below:
    - Arsenic = 8 mg/kg
    - Chromium = 40 mg/kg
    - Copper = 48 mg/kg
    - Lead = 13 mg/kg
    - Nickel = 87 mg/kg
    - Zinc = 94 mg/kg

12.2.3 Surface Water

A total of eighteen (18) primary surface water samples were collected from the onsite waterways for analysis. A summary of the analytical results is presented in **Appendix B: Table 4**, while copies of the laboratory reports, sample receipt and COCs are presented in **Appendix H**.

A brief summary of the results is presented below.

OCP/OPP and PCBs

Concentrations of OCP/OPP and PCBs were below the laboratory LOR (see **Appendix B: Table 3**) and therefore below the adopted assessment criteria for residential land use.

TRH

Detectable concentrations of TRH compounds were reported in four (4) surface water samples (CS3, CS12, DS1 and DS2), with the maximum concentrations outlined below:

- TRH >C10-C16 (F2) Total = 210 µg/L
- TRH >C16-C34 (F3) = 510 µg/L
- TRH >C10-C40 (F4) = 750 µg/L
- TRH C15-C28 = 380 µg/L
- TRH C10-C14 = 190 µg/L

However, all detectable concentrations of TRH compounds were below the adopted assessment criteria for residential land use.

BTEX

Concentrations of benzene, ethylbenzene and xylene were below the laboratory LOR and therefore below the adopted assessment criteria for residential land use.

Detectable concentrations of toluene were reported in three (3) surface water samples (CS12, DS8 and DS9), with the maximum concentrations of 15 µg/L reported in DS8, collected from a dam located in the north-east portion of the site. All detectable concentrations of toluene were below the adopted assessment criteria.

Phenols

Concentrations of phenol compounds were below the laboratory LOR in all samples with the exception of the following:

- Detectable concentrations of 3&4-Methylphenol (m&p-cresol) and total cresol were reported in CS12 (31 µg/L), collected from the creek in the northern portion of the site, which was found to be below the adopted assessment criteria of 1,500 µg/L for total cresol. No assessment criteria was found to be available for 3&4-Methylphenol (m&p-cresol).
- Detectable concentrations of phenol were reported in CS7 (0.5 µg/L), collected from adjacent to AEC6 and CS12 (7.9 µg/L), collected from the northern portion of the site. Detectable phenol concentrations were below the adopted assessment criteria.

These concentrations of phenols were considered to be the attributed to decomposing organic materials. Lanterra does not consider these to be a risk to human health or the ecological environment of the site for the proposed residential development from a contamination perspective.

PAH

Concentrations of PAH compounds were below the laboratory LOR in all samples with the exception of the following:

- Benzo(a)pyrene, benzo(b+j)fluoranthene and indenol(123)pyrene.
    - DS3 - 0.1 µg/L, 2.0 µg/L and 0.2 µg/L respectively
    - DS10 - 0.1 µg/L, 1.0 µg/L and 0.1 µg/L respectively

Detectable concentrations of benzo(a)pyrene in DS3, collected from the man-made wetland in the eastern portion of the site, and DS10, collected from the dam in the north-west portion of the site, were found to exceed the adopted assessment criteria for drinking water (health) and recreational water quality and aesthetics, both with a criteria of 0.01 µg/L.

Concentrations of benzo(b+j)fluoranthene were below the adopted health criteria (USEPA RSL) of 2.4 µg/L.

- A detectable concentration of benzo(g,h,i)perylene at the laboratory LOR of 0.1 µg/L was reported in DS3. No assessment criteria was found to be available for this compound.
- A detectable concentration of fluoranthene at the laboratory LOR of 0.1 µg/L was reported in CS11. No assessment criteria was found to be available for this compound.

The concentrations of PAHs are considered to be the attributed to incomplete combustion of organic materials likely caused by the 2019/20 bushfires that impacted both the site and the surrounding region. Lanterra does not consider these to pose a risk to human health or the ecological environment of the site for the proposed residential development from a contamination perspective.

Heavy Metals

Details of heavy metal concentrations were as follows:

- Concentrations of cadmium, lead and mercury were below the laboratory LOR in each analysed sample, therefore below the adopted assessment criteria.
- A detectable concentration of chromium, equal to the laboratory LOR of 0.001 mg/L was detected in sample DS3, remaining below the adopted assessment criteria.
- Concentrations of arsenic, and nickel were detected above the laboratory LOR in some samples although remained below the adopted assessment criteria. Maximum concentrations are provided below:
    - Arsenic = 0.002 mg/L
    - Nickel = 0.003 mg/L
- Concentrations of copper exceeded the adopted criteria of 0.0014 mg/L for the protection of freshwater species in eight (8) of the samples analysed, as follows:
    - CS6 – 0.003 mg/L
    - CS7 - 0.002 mg/L
    - CS12 - 0.002 mg/L
    - DS1 - 0.002 mg/L
    - DS3 - 0.021 mg/L
    - DS4 - 0.002 mg/L
    - DS9 - 0.002 mg/L
    - DS10 - 0.002 mg/L
- Concentrations of zinc exceeded the adopted criteria of 0.008 mg/L for the protection of freshwater species in seven (7) of the samples analysed, as follows:
    - CS8 – 0.015 mg/L
    - DS2 – 0.035 mg/L
    - DS3 – 0.011 mg/L
    - DS4 – 0.016 mg/L
    - DS7 – 0.017 mg/L

- DS8 – 0.018 mg/L
- DS9 – 0.020 mg/L
- DS10 – 0.016 mg/L

Given the low concentration of copper and zinc within the surface waters, the conservative nature of the freshwater species protection criteria and no identified areas of heavy metal contamination within the soils, these concentrations are considered to be attributed to the natural composition of the soils and waters at the site and are not expected to be a risk to the proposed residential development.

12.2.4 Groundwater

A total of eight (8) primary groundwater samples were collected from the onsite groundwater wells for analysis. A summary of the analytical results is presented in **Appendix B: Table 5**, while copies of the laboratory reports, sample receipt and COCs are presented in **Appendix H**.

A brief summary of the results is presented below.

BTEX, OCP/OPP, PAHs, Phenols and PCBs

Concentrations of BTEX, OCP/OPP, PAHs, Phenols and PCBs were below the laboratory LOR (see **Appendix B: Table 5**) and therefore below the adopted assessment criteria for residential land use.

TRH

Detectable concentrations of TRH compounds were reported in six (6) groundwater samples (GW1, GW2 and GW5-GW8), with the maximum concentrations outlined below (noting that the maximum concentrations for each fraction occurred in GW7, located to the east of Burri Wetland):

- TRH >C10-C16 (F2) = 570 µg/L
- TRH >C16-C34 (F3) = 1,800 µg/L
- TRH >C10-C40 (F4) = 2,600 µg/L
- TRH C10-C14 = 530 µg/L
- TRH C15-C28 = 1,300 µg/L
- TRH C29-C36 = 660 µg/L

All detectable concentrations of TRH compounds were below the adopted assessment criteria for residential land use.

The increased levels of TRHs observed in GW7 in comparison to the other groundwater samples, situated south of the site and downstream of the Tomakin Sewage Treatment Plant to the east, may suggest a potential influence from the sewage plant.

Silica Gel Cleanup

A silica gel cleanup was conducted by the laboratory on selected samples to determine whether the reported detectable TRHs within the samples were of biogenic or petrochemical origin. The groundwater samples were selected for analysis based on the higher reported TRH concentrations across the site:

- GW2
- GW7

Results from the silica gel cleanup were all reported below the laboratory LOR indicating that the reported TRHs were likely of biogenic origin, most likely resulting from the large amount of eucalypt trees at, and surrounding the site, and the potential impact of the sewage treatment plant at GW7.

Heavy Metals

Details of heavy metal concentrations were as follows:

- Concentrations of chromium, copper and lead were below the laboratory LOR in each analysed sample, therefore below the adopted assessment criteria.
- Concentrations of arsenic and mercury were detected at or slightly above the laboratory LOR in the following samples, although remained below the adopted assessment criteria:
    - Arsenic = 2 µg/L (GW7)
    - Mercury = 0.1 2 µg/L (GW5, GW6)
- A detectable concentration of cadmium exceeding the protection of freshwater species criteria (0.2 µg/L) was reported in GW3 (1.3 µg/L), located within AEC1 – area of the former AST.
- Concentrations of nickel exceeded the adopted criteria for the protection of freshwater species (11 µg/L) and the drinking water guidelines (20 µg/L) in three (3) of the samples analysed, along with one exceedance of the recreational water quality and aesthetics guidelines (100 µg/L) as follows:
    - GW5 – 110 µg/L
    - GW6 - 28 µg/L
    - GW7 - 26 µg/L
- Concentrations of zinc exceeded the adopted criteria for the protection of freshwater species (8 µg/L) as follows:
    - GW1 - 44 µg/L
    - GW2 - 63 µg/L
    - GW3 - 11 µg/L
    - GW4 - 34 µg/L
    - GW7 - 10 µg/L
    - GW8 - 67 µg/L

Given widespread presence of metals across the site and the acidity of the groundwater increasing the potential for mobilisation, it is expected that the heavy metals are the result of the natural composition of the soils at the site.

13. Revised Conceptual Site Model

Based on the results of the intrusive investigation, the CSM has been revised to reflect information obtained from the site investigation.

13.1 Summary of Site Condition

13.1.1 Soil

Fill material was encountered within AECs 1 and 6, being the area surrounding the former AST and the former nursery, respectively. Fill was identified from the surface of the site to a maximum depth of 1.0 m bgl and corresponded with reworked materials across the site and its surrounding.

Asbestos containing materials (ACM) were observed on the surface of the site within AEC3 (former dairy) and AEC4 (identified asbestos scatter). No asbestos fibres or fines were detected within any of the soil samples.

The site was comprised of open grassy areas and areas of dense vegetation. Burnt trees were observed at the site, consistent with the bushfires that impacted the site in 2019/20.

Detectable concentrations of TRH compounds were reported in the majority of background (i.e., soil samples collected outside of the AECs) samples, with concentrations of TRH >C10-C40 up to 790 mg/kg. One sample collected from within Sample LC33, collected from within AEC3 – the former dairy, reported detectable concentrations of TRH >C16-C34 F3 (110 mg/kg), TRH C 15-C28 (61 mg/kg), TRH C29-C36 (70 mg/kg) and TRH C10-C36 (sum) (130 mg/kg). silica gel cleanup was conducted on selected background soil samples with results indicating that the TRH concentrations were likely biogenic, originating from the eucalypt trees at the site.

All reported TRH concentrations remained below the adopted assessment criteria.

Concentrations of cadmium, mercury, arsenic, copper, chromium, lead, nickel and zinc were detected at the site, although all concentrations remained below the adopted assessment criteria.

Concentrations of OCP/OPP, PCB, BTEX, PAH and Phenols were below the laboratory LOR and therefore below the adopted assessment criteria for residential land use.

13.1.2 Sediment

Sediment within the waterways across the site comprised mostly of sands, silts and clays which ranged from varying shades of brown. Organic odours and organic material were noted across the site sediments. One sample (DS3-S) was collected within a man-made drainage and wetland which comprised of brown, clayey gravel which was considered to be imported fill material.

Detectable concentrations of TRH compounds were reported in sediment samples across the site, with TRH C10-C36 Total up to 210 mg/kg. However, all detectable concentrations of TRH were below the adopted assessment criteria for residential land use.

Concentrations of PAH compounds were below the laboratory LOR in all samples with the exception of DS10-S, collected from a dam located in the north-west portion of the site, which reported 0.007 mg/kg of fluoranthene. Due to the absence of assessment criteria, the USEPA regional screening level (RSL) for residential soil THQ=1.0 of 2,400 mg/kg was adopted, indicating that the reported concentration was not considered a risk to human health. The detection of fluoranthene was likely associated with incomplete combustion of organic material resulting from the effects of the 2019/20 bushfires.

Concentrations of arsenic, chromium, copper, lead, mercury and zinc were detected at the site, although all concentrations remained below the adopted assessment criteria. Concentrations of cadmium were below the laboratory LOR in each analysed sample, therefore below the adopted assessment criteria. One concentration of nickel (23 mg/kg) was reported slightly above the adopted assessment criteria for the protection of aquatic ecosystems (21 mg/kg) from CS-10-S, collected from a dam in the north-west portion of the site. Heavy metal concentrations from across the site were considered to be attributed to the natural composition of the soils.

Concentrations of OCP/OPP, PCB, BTEX and Phenols were below the LOR and therefore below the adopted assessment criteria for residential land use.

13.1.3 Surface Waters

Surface water sampled across the site included both flowing and stagnant waters, ranging from clear to brown and moderately turbid.

Concentrations of OCP/OPP and PCBs were below the laboratory and therefore below the adopted assessment criteria for residential land use.

Detectable concentrations of TRH compounds were reported in four (4) surface water samples (CS3, CS12, DS1 and DS2), with the maximum concentration reported being 750 µg/L of TRH >C10-C40. all detectable concentrations of TRH compounds were below the adopted assessment criteria for residential land use.

Concentrations of benzene, ethylbenzene and xylene were below the laboratory LOR. Detectable concentrations of toluene were reported in three (3) surface water samples (CS12, DS8 and DS9), with the maximum concentrations of 15 µg/L reported in DS8, collected from a dam located in the north-east portion of the site. All detectable concentrations of toluene were below the adopted assessment criteria.

Detectable concentrations of 3&4-Methylphenol (m&p-cresol) and total cresol were reported in CS12 (31 µg/L), collected from the creek in the northern portion of the site, which was found to be below the adopted assessment criteria of 1,500 µg/L for total cresol. No assessment criteria was found to be available for 3&4-Methylphenol (m&p-cresol). These concentrations of phenols are considered to be the attributed to decomposing organic materials. Remaining phenols were below the laboratory LOR.

Concentrations of PAHs were reported in samples collected from dams DS3 and DS10, located in the east (man-made wetland/drainage) and north-west of the site, respectively, exceeding the adopted assessment criteria for drinking water (health) and recreational water quality and aesthetics. These concentrations of PAHs are considered to be the attributed to the incomplete combustion of organic materials caused by the 2019/20 bushfires that impacted both the site and the surrounding region.

Concentreations of copper and zinc exceeded the adopted criteria for the protection of ecosystems from various waterways across the site which were considered to be attributed to the natural composition of the soils. Remaining heavy metals were either below the laboratory LOR or the adopted assessment criteria.

13.1.4 Groundwater

During the installation of groundwater wells across the site, groundwater interception ranged from approximately 2.5 m below ground level (bgl) at GW02 in the north-east portion of the site to 26.8 m bgl at GW04 in the central-northern portion of the site. Standing groundwater levels ranged from 0.504 m bgl at GW08, located to the east of the lagoon, to 26.508 m bgl in GW04 in the central

northern portion of the site. The inferred groundwater flow direction was in a general south-east direction towards the Tasman Sea.

Groundwaters beneath the site were fresh to brackish, with an electrical conductivity range from 480 µS/cm (GW02) to 12,722 µS/cm (GW07). Field pH readings indicated that the groundwater was mild acidic.

Concentrations of BTEX, OCP/OPP, PAHs, Phenols and PCBs were below the laboratory LOR and therefore below the adopted assessment criteria for residential land use.

Detectable concentrations of TRH compounds were reported in six (6) groundwater samples (GW1, GW2 and GW5-GW8), with the maximum concentration being 2,600 µg/L of TRH >C10-C40 (F4), from GW7 located adjacent to the east of Burri Wetland. All detectable concentrations of TRH compounds were below the adopted assessment criteria for residential land use. A silica gel cleanup of selected groundwater samples indicated that the detected TRH concentrations were of biogenic origin likely resulting from the vast amount of eucalypt trees at and surrounding the site.

Concentrations of nickel exceeding the adopted criteria for the protection of freshwater species (11 µg/L) and the drinking water guidelines (20 µg/L) in three (3) of the samples analysed, along with one exceedance of the recreational water quality and aesthetics guidelines (100 µg/L) were reported in GW5 (110 µg/L), GW6 (28 µg/L) and GW7 (26 µg/L). Exceedances of the adopted criteria for the protection of freshwater were also reported in the majority of samples for zinc. It is expected that the heavy metals are the result of the natural composition of the soils at the site.

Prior to any soil removal from the site, a soil assessment must be undertaken following the guidelines of the NSW EPA (2014) *'The Excavated Natural Material Order 2014'* if suitable for off-site use as natural excavated material (ENM) or NSW EPA (2014) *'Waste Classification Guidelines, Part 1: Classifying Waste'* for off-site disposal as waste.

13.2 Potential Receptors and Exposure Pathways

Based on the results of the investigation, the revised CSM is presented in the table below:

Table 18: *Revised Conceptual Site Model*

Pathway	COPCs	Potential Receptors	Exposure Pathway Complete or Potentially Complete	Comments
Direct Contact with Soil or Sediment including dermal contact and ingestion	TRH, BTEX, PAH, OCP, OPP, PCB, Phenols, Heavy metals	• On-site users • On-site workers • Future workers • Future residents • Ecological receptors	Incomplete	The site investigation did not identify concentration of COPCs in soil or sediments that would pose an unacceptable risk to the human health and the environment. Therefore, the pathway associated with these COPCs is considered incomplete.
Direct Contact with Groundwater including dermal contact and ingestion	TRH, BTEX, PAH, OCP, OPP, PCB, Phenols, Heavy metals	• On-site users • On-site workers • Future workers • Future residents • Ecological receptors	Incomplete	Based on the nature of the development, which does not include basement levels, and the fact that no abstraction bores are located on or near the site the risk of exposure to

Pathway	COPCs	Potential Receptors	Exposure Pathway Complete or Potentially Complete	Comments
				groundwater is considered negligible. However, given the presence of naturally occurring heavy metals (notably nickel and zinc) within the groundwater, any future extraction of groundwater at the site should not be used as a source of drinking water.
Direct Contact with Surface Waters including dermal contact and ingestion	TRH, BTEX, PAH, OCP, OPP, PCB, Phenols, Heavy metals	• On-site users • On-site workers • Future workers • Future residents • Ecological receptors	Incomplete	Given the nature of the waterways, which are unlikely to be used for recreational purposes or a source of drinking water the risk of exposure to surface waters is considered negligible. However, given the presence of PAHs (which are considered to be of biogenic origin), surface waters at the site should not be used for recreational purposes or as a source of drinking water.
Inhalation of Asbestos Fibres	Asbestos	• On-site users • On-site workers • Future workers • Future residents	Incomplete	Asbestos containing materials (ACM) were found within AECs 3 (former dairy) and 6 (identified asbestos scatter). No asbestos fibres or fines were found during sampling works across the site. Therefore, the exposure pathway is considered incomplete. However, given the size of the site, it is not possible to rule out its existence and a UFP must be prepared in case asbestos containing materials are found during developing works. Remediation of AECs 3 and 6, involving an “emu pick” of the surface for any remaining ACM, should also be conducted.
Inhalation of gasses and vapour	TRH, BTEX	• On-site users • On-site workers • Future workers • Future residents	Incomplete	Volatile compounds were below the adopted criteria of this investigation. Therefore, the exposure pathway is incomplete.

14. Summary and Conclusions

Walker Rosedale Pty Ltd (Walker) engaged Lanterra Consulting Pty Ltd (Lanterra) to complete a detailed site investigation (DSI) to support the proposed modification of the 2008 Concept Plan Approval (application number 05_0199 for a residential subdivision at Bevian Road, Rosedale, NSW

From the project brief, it is understood that a modification is sought for the 2008 Concept Plan Approval to provide a Torrens title development that includes residential development and ancillary commercial facilities, public roads, public open areas and residual rural lot yielding a total of 792 residential lots, inclusive of the 51 residential lots recently constructed and registered as part of stage 1 (DA305/18) in accordance with the Secretary's Environmental Assessment Requirements (SEARS) for the project (MP 05_0199). For the purposes of the modification, stage 1 is excluded from further consideration.

A preliminary site investigation (PSI) was completed by Douglas Partners (2007) which identified areas of environmental concern across the site. Lanterra reviewed the PSI (Douglas Partners, 2007) in 2022, including a site visit, to contemporise the findings and complete a gap analysis to assess whether the site had changed between 2007 and 2022. The following AECs were identified by Lanterra (2022) for further assessment:

- AEC 1 - Above Ground Storage Tanks (Lot 11 DP 755902).
- AEC 2 – Location of former cheese factory (Lot 11 DP 755902).
- AEC 3 – Location of former dairy and cattle yards (Lot 213 DP 755902).
- AEC 4 – Area of identified asbestos scatter (Lot 11 DP 755902).
- AEC 5 – Area beneath and surrounding abandoned car (Lot 72 DP 755902).
- AEC 6 – Former nursery compound, including fill pad, potential stockpiles and pumphouse (Lot 11 DP 755902).
- AEC 7 – Large stockpiles likely associated with new road construction (Lot 52 DP 1293369).

Based on the history of the site and this soil investigation, a summary of the key findings is provided below:

- Fill material was observed in AEC1 (area surrounding former AST) and AEC 6 (former nursery) to depths varying between 0.2 to 1.1 m below ground level. Fill material was also found in the man-made wetland in the east of the site.
- Fill material across the site corresponded with topsoil and reworked material likely sourced from the site and its surrounding. The reworked material corresponded with the geology of the area. The sediment identified as fill material within the man-made wetland was likely imported materials.
- Two fragments of ACM were observed on the surface of the site in AEC3 (former dairy) and AEC4 (identified asbestos scatter).
- No asbestos fines or fibrous asbestos were detected in any of the analysed samples across the site.
- Detectable concentrations, below the adopted assessment criteria, of TRHs were reported within soil, sediment, surface waters and groundwater across the site. However, a silica gel cleanup indicated that these were likely to be of biogenic origin, resulting from eucalypt forests at and surrounding the site. Lanterra does not consider these to be a risk to human health or the ecological environment of the site for the proposed residential development from a contamination perspective.

- Detectable concentrations of PAHs were found in sediments and surface waters from a dam in the north-west of the site and the man-made wetland/drainage channel in the east. Exceedances of the adopted drinking water guidelines (health) and recreational water quality and aesthetics guidelines were found for benzo(a)pyrene. These concentrations of PAHs are considered to be the attributed to the incomplete combustion of organic materials caused by the 2019/20 bushfires that impacted both the site and the surrounding region.
- Exceedances of nickel above the adopted assessment criteria for the protection of aquatic ecosystems was reported for sediments and above the protection of freshwater species and the drinking water guidelines criteria for groundwater. Exceedances of copper above the protection of freshwater species criteria was reported in surface water.
  Exceedances of zinc above the protection of freshwater species were reported in surface waters and groundwater. Heavy metal concentrations at the site were attributed to the natural composition of soils and were not considered to be a risk to human or ecological health of the site.
- Concentrations of benzene, ethylbenzene and xylene were below the laboratory LOR. Detectable concentrations of toluene were reported within surface waters; however, concentrations were below the adopted assessment criteria.
- Detectable concentrations of phenols were reported within surface waters; however, concentrations were below the adopted assessment criteria.
- Concentrations of OPP/OCP and PCBs, across the site were below the adopted assessment criteria for the protection of human and ecological health for low-density residential land use.

Based on the findings of this contamination assessment (detailed site assessment), the site is considered suitable for the proposed residential subdivision in accordance with the Secretary's Environmental Assessment Requirements (SEARS) MP 05_0199.

Lanterra notes that prior to any earthwork occurring across the site a construction environmental management plan (CEMP) which includes an unexpected finds protocol (UFP) to manage any unexpected occurrences of contamination must be prepared by a suitably qualified environmental consultant.

Any soil to be removed from the site as part of the development works must be assessed in accordance with the definition of virgin excavated natural material (VENM) as defined by the *Protection of the Environment Operations Act 1997* (POEO Act), the NSW EPA (2014) *'The Excavated Natural Material Order 2014'* if suitable for off-site use as excavated natural material (ENM) or NSW EPA (2014) *'Waste Classification Guidelines, Part 1: Classifying Waste'* for off-site disposal as waste.

Lanterra recommends that any asbestos containing material (ACM) remaining at the surface of the site within areas of environmental concern (AECs) 3 (former dairy) and 6 (identified asbestos scatter) should be removed by completing an emu pick"., so that the =exposed surface of the site is free of visible ACM fragments. Alternatively, a 30 cm layer of topsoil can be layered over the site. Lanterra notes that all soil to be imported must comply with the definition of virgin excavated natural material (VENM) in as defined by the *Protection of the Environment Operations Act 1997* (POEO Act). Once remediation is complete, a clearance certificate must be issued by either a 'competent person' or a licensed asbestos assessor.

Lanterra recommends that future abstraction of groundwater for domestic use at the site should be prohibited. A beneficial reuse assessment should be completed for any other use to determine whether the groundwater quality is suitable for the proposed purpose.

Lanterra recommends waterways at the site should not be used for recreational purposes or as a source of drinking water.

15. References

Douglas Partners (2007) *Preliminary Contamination Assessment – Bevian Road Concept Application, Bevian Road, Rosedale.*

Lanterra Consulting (2022) *Preliminary Site Investigation, Bevian Road, Rosedale.*

National Environmental Protection Council (NEPC) (2013) '*National Environment Protection (Assessment of Site Contamination) Measure 1999*' (as amended April 2013).

NSW EPA (2014) *'The Excavated Natural Material Order 2014'*

NSW EPA (2014) *'Waste Classification Guidelines, Part 1: Classifying Waste'*

NSW EPA (2017) '*Guidelines for the NSW Site Auditor Scheme (3rd Ed.)'*.

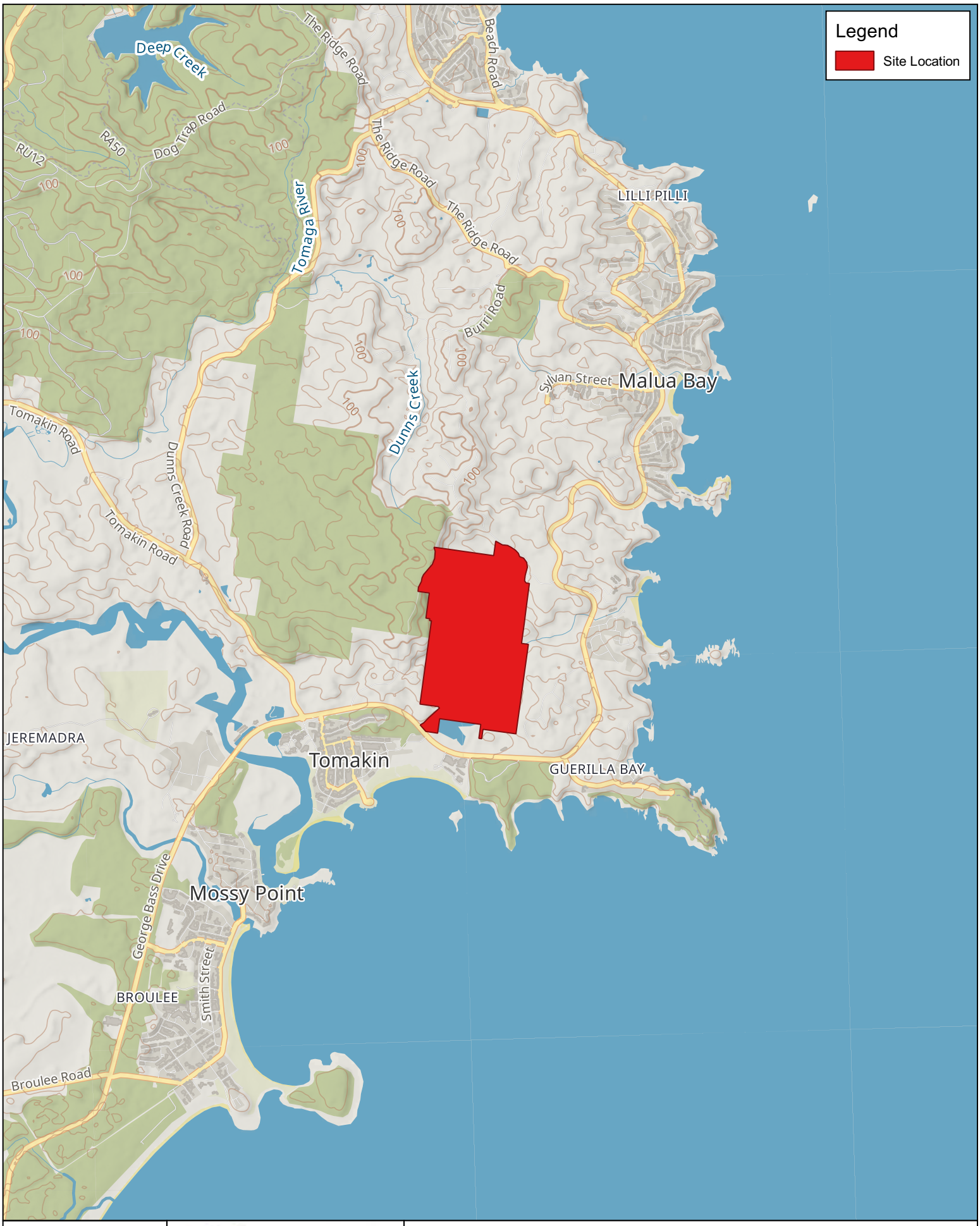
NSW EPA (2020) '*Contaminated Land Guidelines - Consultants Reporting on Contaminated Land*'.

NSW EPA (2022) 'Contaminated Land Guidelines – Sampling Design Part 1 - Application 'Sampling Design Guidelines'.

Standards Australia (2005) '*Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds AS4482.1 (2005) and Part 2: Volatile substances, AS4482.2 (2005)*'.

Appendix A

Figures



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Unit 13/71 Leichhardt Street, Kingston, ACT2604

ABN 30 629 182 823

0 1,000 2,000 m

FIGURE 1: Site Location Plan

PROJECT No:	P23158
PROJECT:	Detailed Site Investigation
LOCATION:	Bevian Road, Rosedale, NSW2536
CLIENT:	Walker Rosedale Pty Ltd
Image Source: Map Tiler Open Street Map	Coordinate System: GDA 2020 MGA Zone 56

N

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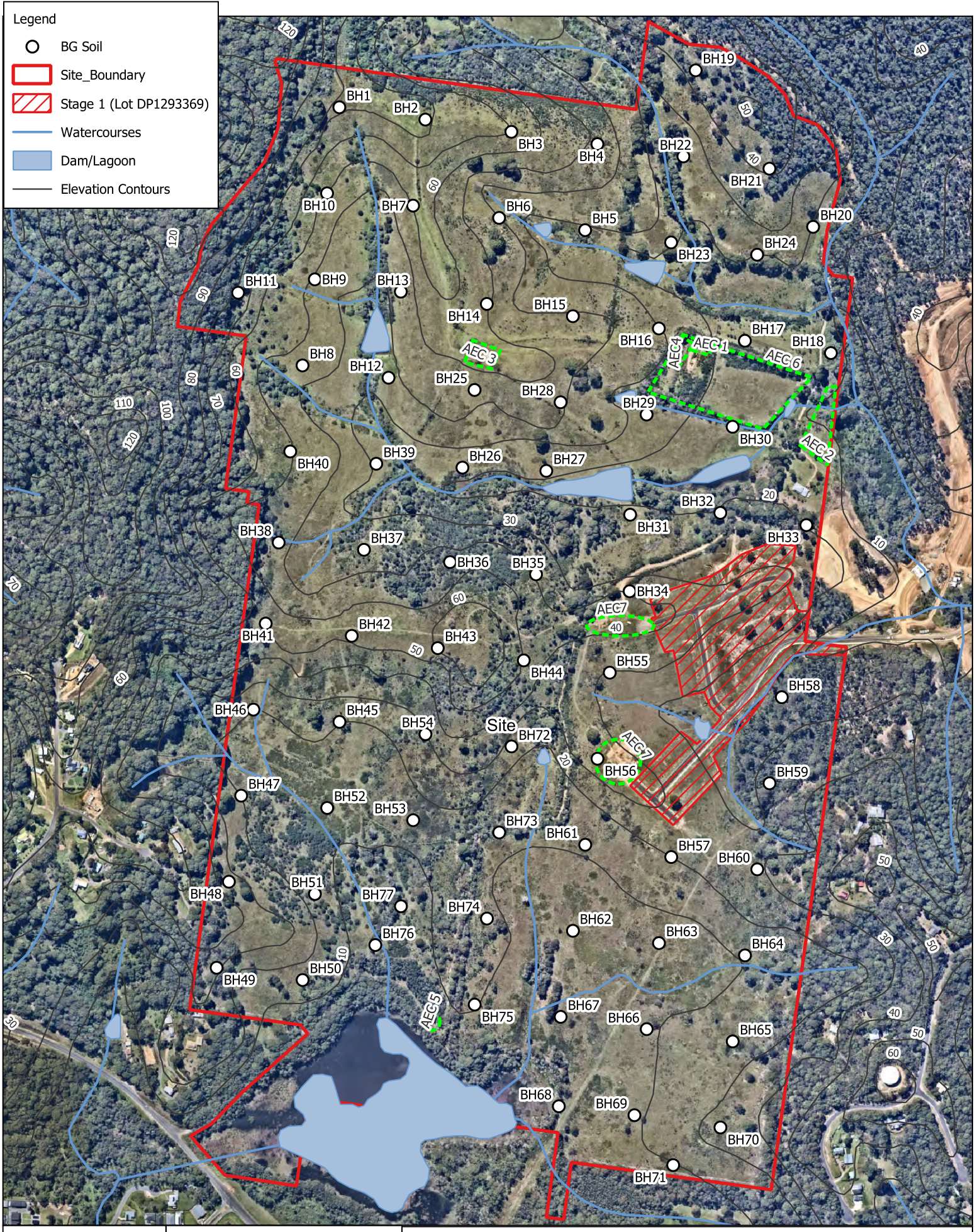
Unit 13/71 Leichhardt Street, Kingston, ACT2604
ABN 30 629 182 823

0 100 200 m

FIGURE 2: Detailed Site Layout Plan

PROJECT No:	P23158
PROJECT:	Rosedale
ADRESS:	Bevian Road, Rosedale NSW 2536
CLIENT:	Walker Rosedale Pty Ltd
Image Source: Map Tiler Open Street Map	Coordinate System: GDA 2020 MGA Zone 56



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ABN 30 629 182 823

0 100 200 m

FIGURE 3a: Background Soil Sampling Plan

PROJECT No:	P23158
PROJECT:	Rosedale
ADRESS:	Bevian Road, Rosedale NSW 2536
CLIENT:	Walker Rosedale Pty Ltd
Image Source: Map Tiler Open Street Map	Coordinate System: GDA 2020 MGA Zone 56

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ABN 30 629 182 823

0 100 200 m

FIGURE 3b: Dam Water and Sediment Sampling Plan

PROJECT No:	P23158
PROJECT:	Rosedale
ADRESS:	Bevian Road, Rosedale NSW 2536
CLIENT:	Walker Rosedale Pty Ltd
Image Source: Map Tiler Open Street Map	Coordinate System: GDA 2020 MGA Zone 56

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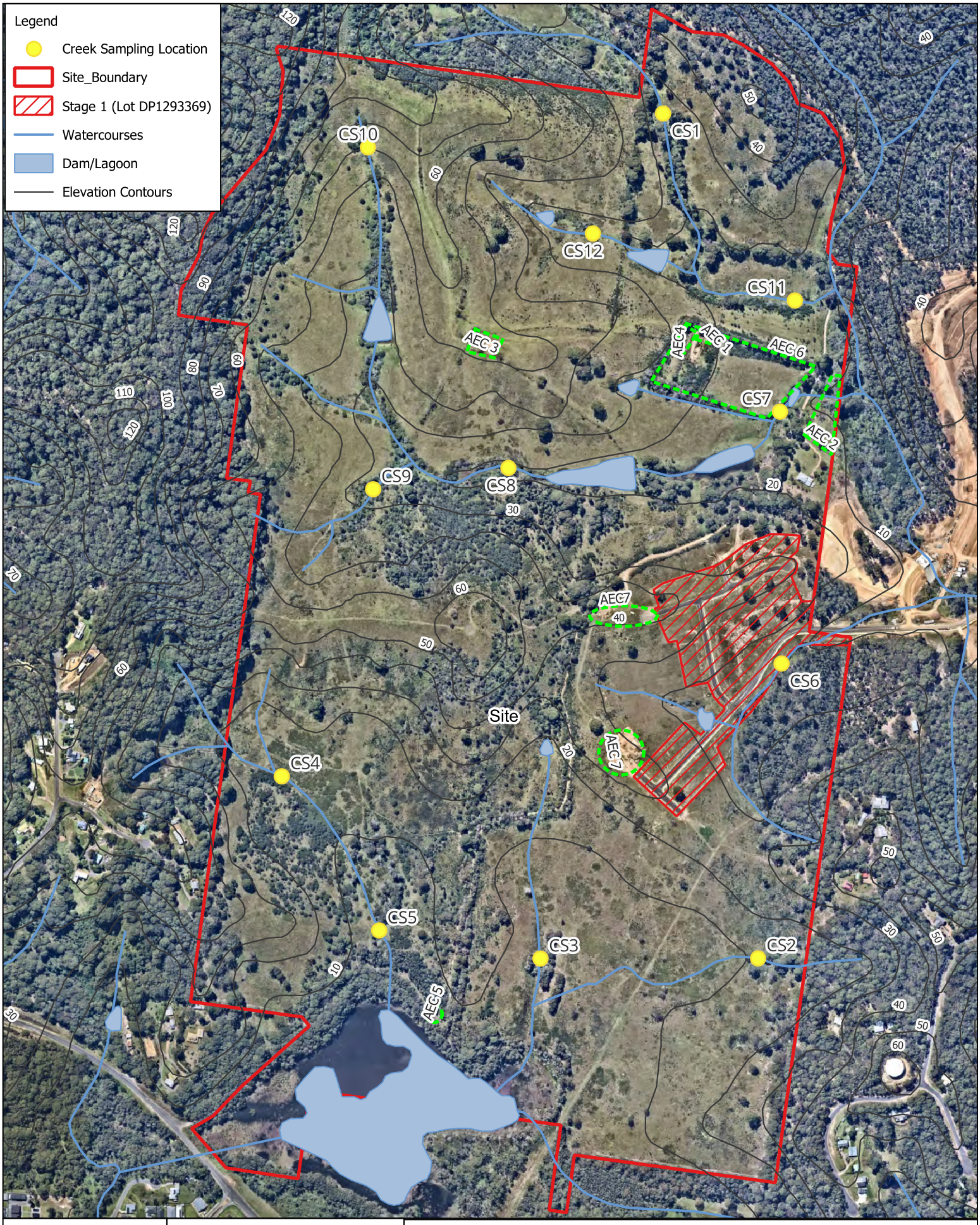
ABN 30 629 182 823

0 100 200 m

FIGURE 3c: Groundwater Sampling Plan

PROJECT No:	P23158
PROJECT:	Rosedale
ADRESS:	Bevian Road, Rosedale NSW 2536
CLIENT:	Walker Rosedale Pty Ltd
Image Source: Map Tiler Open Street Map	Coordinate System: GDA 2020 MGA Zone 56



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ABN 30 629 182 823

0 100 200 m

FIGURE 3d: Creek Water and Sediemnt Sampling Plan

PROJECT No:	P23158
PROJECT:	Rosedale
ADRESS:	Bevian Road, Rosedale NSW 2536
CLIENT:	Walker Rosedale Pty Ltd
Image Source: Map Tiler Open Street Map	Coordinate System: GDA 2020 MGA Zone 56

0 20 40 m

Image Source: Nearmap Aerial

Coordinate System: GDA 2020 MGA Zone 56

N

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ABN 30 629 182 823

FIGURE 3e: AEC1, AEC4 and AEC6 Soil Sampling Plan

PROJECT No:	P23158
PROJECT:	Detailed Site Investigation
LOCATION:	Bevian Road, Rosedale, NSW2536
CLIENT:	Walker Rosedale Pty Ltd

0 20 40 m

N

Image Source: Nearmap Aerial

Coordinate System: GDA 2020 MGA Zone 56

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ABN 30 629 182 823

FIGURE 3f: AEC2 Soil Sampling Plan

PROJECT No:	P23158
PROJECT:	Detailed Site Investigation
LOCATION:	Bevian Road, Rosedale, NSW2536
CLIENT:	Walker Rosedale Pty Ltd

0 20 40 m

Image Source: Nearmap Aerial

Coordinate System: GDA 2020 MGA Zone 56

N

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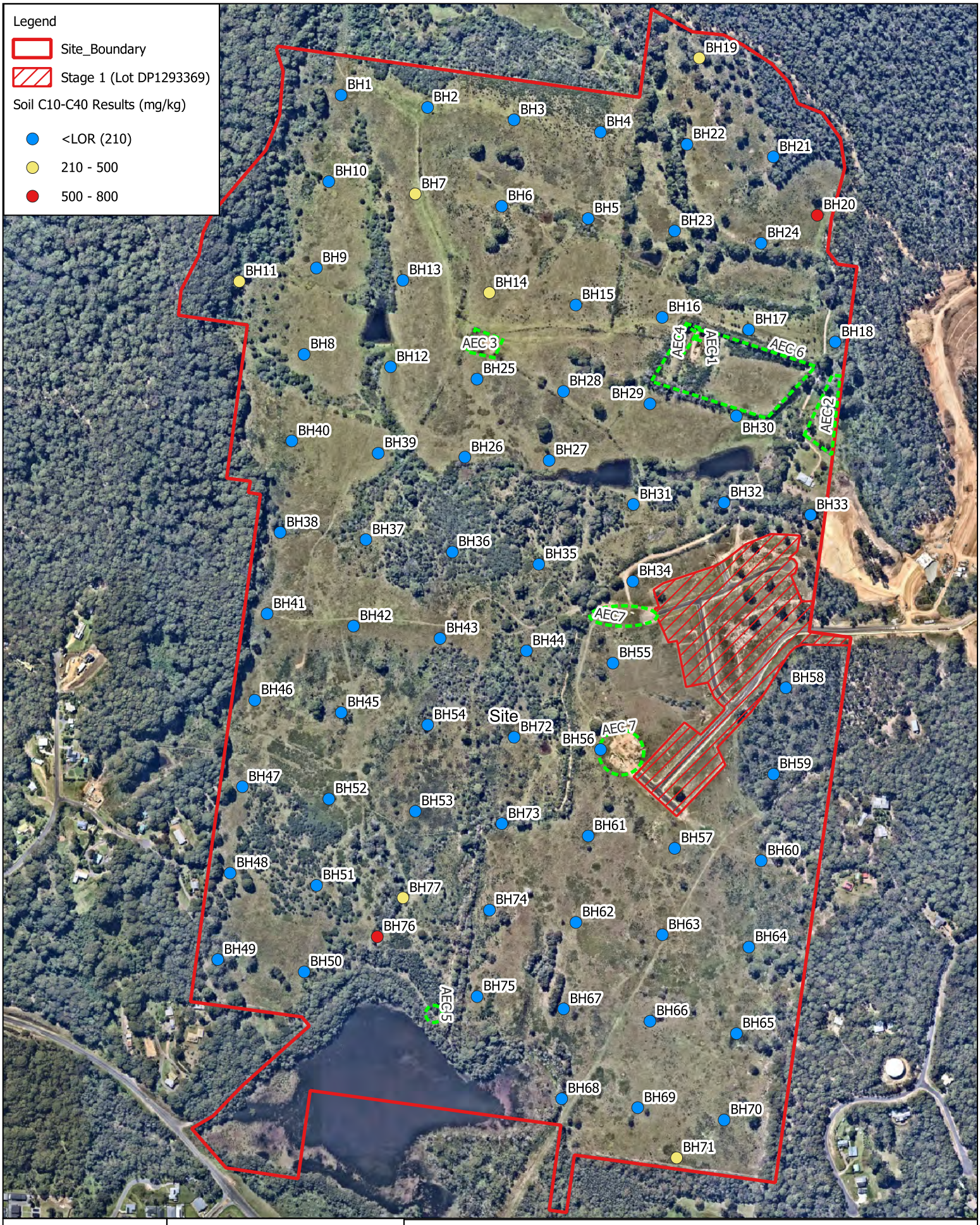
ABN 30 629 182 823

FIGURE 3g: AEC3 Soil Sampling Plan

PROJECT No:	P23158
PROJECT:	Detailed Site Investigation
LOCATION:	Bevian Road, Rosedale, NSW2536
CLIENT:	Walker Rosedale Pty Ltd



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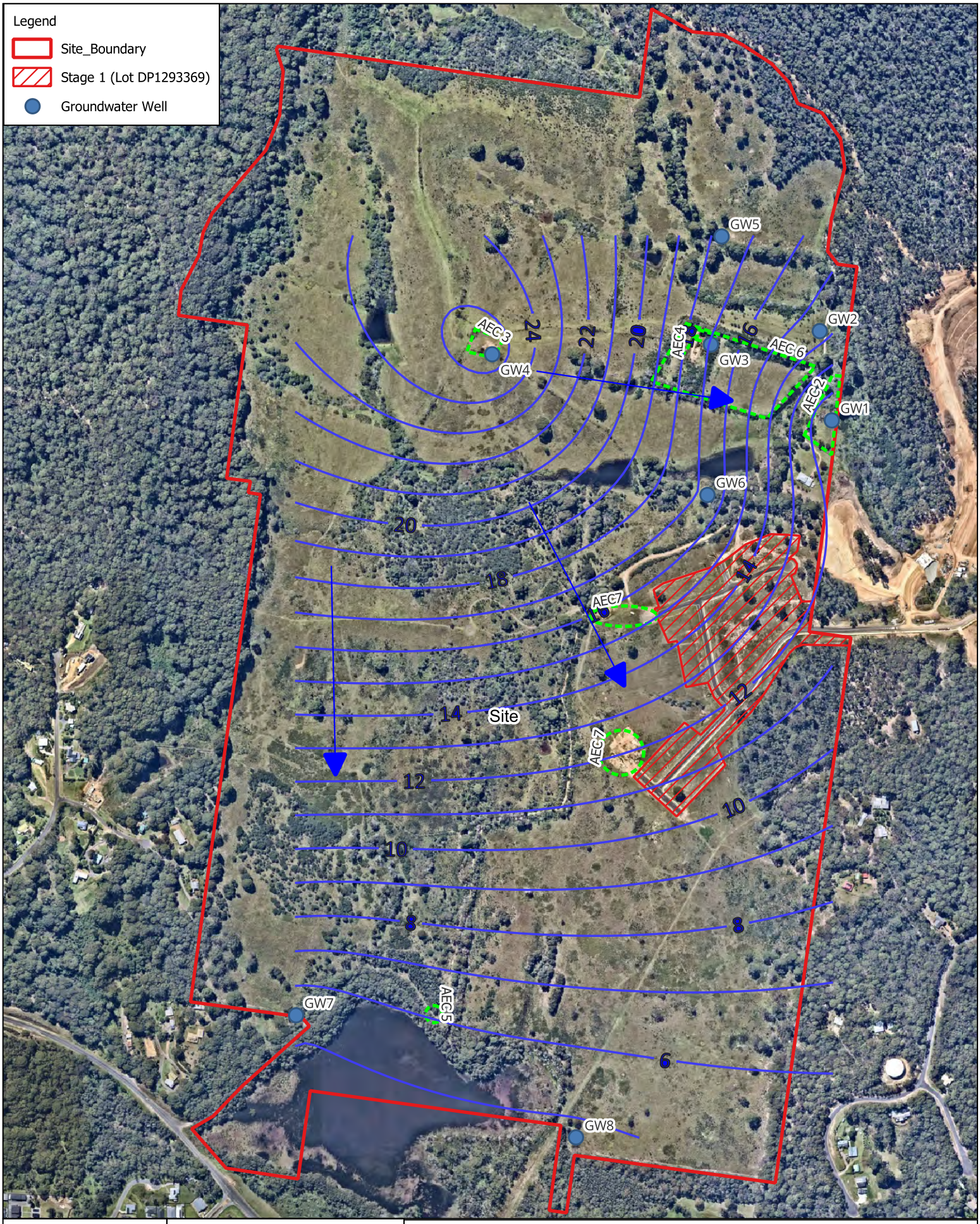
ABN 30 629 182 823

0 100 200 m

FIGURE 4e: Background Surface Soil Concentrations TRH >C10-C40 (Sum)

PROJECT No:	P23158
PROJECT:	Rosedale
ADRESS:	Bevian Road, Rosedale NSW 2536
CLIENT:	Walker Rosedale Pty Ltd
Image Source: Map Tiler Open Street Map	Coordinate System: GDA 2020 MGA Zone 56



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0 100 200 m

FIGURE 5: Groundwater Contour Plan

PROJECT No:	P23158
PROJECT:	Rosedale
ADRESS:	Bevian Road, Rosedale NSW 2536
CLIENT:	Walker Rosedale Pty Ltd
Image Source: Map Tiler Open Street Map	Coordinate System: GDA 2020 MGA Zone 56

Appendix B

TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			Particle Size			Inorganics												
			+75µm	Clay in soils <2um	Passing 75µm	Exchangeable Calcium Percent (filtered)	Exchangeable Magnesium Percent (filtered)	Exchangeable Potassium Percent (filtered)	Exchangeable Sodium Percent (filtered)	% Moisture	Exchangeable Calcium (filtered)	Exchangeable Magnesium (filtered)	Exchangeable Potassium (filtered)	Exchangeable Sodium (filtered)	Cation Exchange Capacity (filtered)	pH (Lab)	Sodium (filtered)
			%	%	%	%	%	%	%	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	-	mg/kg
EQL			1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.02	0.01	0.01	0.02	0.1	2
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**																
SE258534	**BH1 0.0-0.1**	**11 Dec 2023**	62	6.0	38	51.2	43.0	2.1	3.7	31.9	13	11	0.52	0.92	25	6.8	210
SE258534	**BH2 0.0-0.1**	**11 Dec 2023**	-	-	-	-	-	-	-	28.4	-	-	-	-	-	-	-
SE258534	**BH3 0.0-0.1**	**11 Dec 2023**	-	-	-	-	-	-	-	27.0	-	-	-	-	-	-	-
SE258534	**BH4 0.0-0.1**	**11 Dec 2023**	-	-	-	-	-	-	-	19.0	-	-	-	-	-	-	-
SE258534	**BH5 0.0-0.1**	**11 Dec 2023**	-	-	-	-	-	-	-	25.7	-	-	-	-	-	-	-
SE258534	**BH6 0.0-0.1**	**11 Dec 2023**	-	-	-	-	-	-	-	21.5	-	-	-	-	-	-	-
SE258534	**BH7 0.0-0.1**	**11 Dec 2023**	-	-	-	-	-	-	-	34.6	-	-	-	-	-	-	-
SE258534	**BH8 0.0-0.1**	**11 Dec 2023**	-	-	-	-	-	-	-	38.2	-	-	-	-	-	-	-
SE258534	**BH9 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	44.4	-	-	-	-	-	-	-
SE258534	**BH10 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	32.5	-	-	-	-	-	-	-
SE258534	**BH11 0.0-0.1**	**12 Dec 2023**	73	6.0	27	27.4	50.0	10.3	12.4	17.3	1.1	2.1	0.43	0.52	4.2	5.3	120
SE258534	**BH12 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	41.4	-	-	-	-	-	-	-
SE258534	**BH13 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	30.0	-	-	-	-	-	-	-
SE258534	**BH14 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	40.1	-	-	-	-	-	-	-
SE258534	**BH15 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	20.9	-	-	-	-	-	-	-
SE258534	**BH16 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	32.6	-	-	-	-	-	-	-
SE258534	**BH17 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	23.4	-	-	-	-	-	-	-
SE258534	**BH18 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	28.0	-	-	-	-	-	-	-
SE258534	**BH19 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	15.1	-	-	-	-	-	-	-
SE258534	**BH20 0.0-0.1**	**12 Dec 2023**	30	6.0	70	25.3	54.1	7.5	13.2	31.4	1.1	2.4	0.33	0.59	4.5	5.4	140
SE258534	**BH21 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	23.7	-	-	-	-	-	-	-
SE258534	**BH22 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	28.5	-	-	-	-	-	-	-
SE258534	**BH23 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	38.4	-	-	-	-	-	-	-
SE258534	**BH24 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	29.1	-	-	-	-	-	-	-
SE258534	**BH25 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	32.1	-	-	-	-	-	-	-
SE258534	**BH26 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	36.1	-	-	-	-	-	-	-
SE258534	**BH27 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	26.6	-	-	-	-	-	-	-
SE258534	**BH28 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	29.1	-	-	-	-	-	-	-
SE258534	**BH29 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	37.5	-	-	-	-	-	-	-
SE258534	**BH30 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	32.6	-	-	-	-	-	-	-
SE258534	**BH31 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	26.2	-	-	-	-	-	-	-
SE258534	**BH32 0.0-0.1**	**12 Dec 2023**	-	-	-	-	-	-	-	18.0	-	-	-	-	-	-	-
SE258534	**BH33 0.0-0.1**	**12 Dec 2023**	51	6.0	49	60.7	29.8	3.4	6.1	17.4	4.0	2.0	0.23	0.41	6.7	5.7	93
SE258536	**BH34 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	25.4	-	-	-	-	-	-	-
SE258536	**BH35 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	24.4	-	-	-	-	-	-	-
SE258536	**BH36 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	25.3	-	-	-	-	-	-	-
SE258536	**BH37 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	17.1	-	-	-	-	-	-	-
SE258536	**BH38 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	18.0	-	-	-	-	-	-	-
SE258536	**BH39 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	33.2	-	-	-	-	-	-	-
SE258536	**BH40 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	31.0	-	-	-	-	-	-	-
SE258536	**BH41 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	27.4	-	-	-	-	-	-	-
SE258536	**BH42 0.0-0.1**	**13 Dec 2023**	99	<0.1	<1	26.5	41.7	24.6	7.2	20.8	5.5	8.7	5.1	1.5	21	5.8	340
SE258536	**BH43 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	21.5	-	-	-	-	-	-	-
SE258536	**BH44 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	29.5	-	-	-	-	-	-	-
SE258536	**BH45 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	15.3	-	-	-	-	-	-	-
SE258536	**BH46 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	27.3	-	-	-	-	-	-	-

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TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			Particle Size			Inorganics												
			+75µm	Clay in soils <2um	Passing 75µm	Exchangeable Calcium Percent (filtered)	Exchangeable Magnesium Percent (filtered)	Exchangeable Potassium Percent (filtered)	Exchangeable Sodium Percent (filtered)	% Moisture	Exchangeable Calcium (filtered)	Exchangeable Magnesium (filtered)	Exchangeable Potassium (filtered)	Exchangeable Sodium (filtered)	Cation Exchange Capacity (filtered)	pH (Lab)	Sodium (filtered)
			%	%	%	%	%	%	%	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	-	mg/kg
EQL			1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.02	0.01	0.01	0.02	0.1	2
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**																
SE258536	**BH47 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	18.3	-	-	-	-	-	-	-
SE258536	**BH48 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	22.9	-	-	-	-	-	-	-
SE258536	**BH49 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	10.4	-	-	-	-	-	-	-
SE258536	**BH50 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	13.2	-	-	-	-	-	-	-
SE258536	**BH51 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	28.6	-	-	-	-	-	-	-
SE258536	**BH52 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	33.2	-	-	-	-	-	-	-
SE258536	**BH53 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	20.8	-	-	-	-	-	-	-
SE258536	**BH54 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	22.2	-	-	-	-	-	-	-
SE258536	**BH55 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	29.5	-	-	-	-	-	-	-
SE258536	**BH56 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	23.3	-	-	-	-	-	-	-
SE258536	**BH57 0.0-0.1**	**13 Dec 2023**	-	-	-	-	-	-	-	29.3	-	-	-	-	-	-	-
SE258536	**BH58 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	16.7	-	-	-	-	-	-	-
SE258536	**BH59 0.0-0.1**	**14 Dec 2023**	59	7.0	41	16.1	52.8	13.3	17.7	17.3	0.40	1.3	0.33	0.44	2.5	5.0	100
SE258536	**BH60 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	18.2	-	-	-	-	-	-	-
SE258536	**BH61 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	28.2	-	-	-	-	-	-	-
SE258536	**BH62 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	24.5	-	-	-	-	-	-	-
SE258536	**BH63 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	33.3	-	-	-	-	-	-	-
SE258536	**BH64 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	28.0	-	-	-	-	-	-	-
SE258536	**BH65 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	23.8	-	-	-	-	-	-	-
SE258536	**BH66 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	22.4	-	-	-	-	-	-	-
SE258536	**BH67 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	28.5	-	-	-	-	-	-	-
SE258536	**BH68 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	17.5	-	-	-	-	-	-	-
SE258536	**BH69 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	26.1	-	-	-	-	-	-	-
SE258536	**BH70 0.0-0.1**	**14 Dec 2023**	90	1.0	10	51.6	35.0	9.1	4.3	23.1	3.6	2.4	0.63	0.30	6.9	5.7	68
SE258536	**BH71 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	20.1	-	-	-	-	-	-	-
SE258536	**BH72 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	25.3	-	-	-	-	-	-	-
SE258536	**BH73 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	26.6	-	-	-	-	-	-	-
SE258536	**BH74 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	19.5	-	-	-	-	-	-	-
SE258536	**BH75 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	20.7	-	-	-	-	-	-	-
SE258536	**BH76 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	19.1	-	-	-	-	-	-	-
SE258536	**BH77 0.0-0.1**	**14 Dec 2023**	-	-	-	-	-	-	-	24.3	-	-	-	-	-	-	-
SE258536	**QC1**	**14 Dec 2023**	-	-	-	-	-	-	-	31.0	-	-	-	-	-	-	-
SE258536	**QC3**	**14 Dec 2023**	-	-	-	-	-	-	-	35.8	-	-	-	-	-	-	-
SE258536	**QC5**	**14 Dec 2023**	-	-	-	-	-	-	-	17.4	-	-	-	-	-	-	-
SE258536	**QC7**	**14 Dec 2023**	-	-	-	-	-	-	-	26.8	-	-	-	-	-	-	-

NOTES
Cells containing '-' have no available results for that CoPC
* USEPA RSL THQ=1.0 for residential soil
# value for Cr III adopted

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TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			Metals										BTEX							
			Arsenic	Cadmium	Calcium (filtered)	Chromium (III+VI)	Copper	Lead	Magnesium (filtered)	Mercury	Nickel	Potassium (filtered)	Zinc	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	0.3	2	0.5	0.5	1	2	0.05	0.5	2	2	0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.6
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	-	-	-	-	-	-	-	-	-	-	5	0.7	480	-	-	-	110	-
NEPM 2013 Table 1A(1) HILs Res A Soil			100	20	-	100 #	6,000	300	-	40	400	-	7,400	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			100	-	-	410 #	160	1,100	-	-	170	-	370	170	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	-	-	-	-	-	-	-	-	-	-	-	65	105	125	-	-	45	-
Lab Report Number	**Field ID**	**Date**																			
SE258534	**BH1 0.0-0.1**	**11 Dec 2023**	7	<0.3	2,600	150	83	5	1,300	<0.05	58	200	77	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH2 0.0-0.1**	**11 Dec 2023**	6	<0.3	-	10	46	11	-	<0.05	10	-	400	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH3 0.0-0.1**	**11 Dec 2023**	5	<0.3	-	9.6	18	12	-	<0.05	11	-	62	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH4 0.0-0.1**	**11 Dec 2023**	8	<0.3	-	7.9	39	14	-	<0.05	9.9	-	64	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH5 0.0-0.1**	**11 Dec 2023**	8	<0.3	-	6.7	39	10	-	<0.05	8.4	-	41	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH6 0.0-0.1**	**11 Dec 2023**	5	<0.3	-	11	39	11	-	<0.05	7.0	-	28	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH7 0.0-0.1**	**11 Dec 2023**	11	<0.3	-	7.6	58	9	-	<0.05	8.8	-	88	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH8 0.0-0.1**	**11 Dec 2023**	4	<0.3	-	58	21	10	-	<0.05	17	-	40	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH9 0.0-0.1**	**12 Dec 2023**	6	<0.3	-	60	35	7	-	0.06	25	-	53	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH10 0.0-0.1**	**12 Dec 2023**	6	<0.3	-	72	38	6	-	<0.05	34	-	63	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH11 0.0-0.1**	**12 Dec 2023**	10	<0.3	230	17	15	13	260	<0.05	16	170	40	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH12 0.0-0.1**	**12 Dec 2023**	10	<0.3	-	28	51	11	-	0.05	10	-	47	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH13 0.0-0.1**	**12 Dec 2023**	7	<0.3	-	13	67	7	-	<0.05	8.3	-	88	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH14 0.0-0.1**	**12 Dec 2023**	4	<0.3	-	18	37	24	-	0.06	19	-	34	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH15 0.0-0.1**	**12 Dec 2023**	7	<0.3	-	5.1	28	8	-	<0.05	8.9	-	45	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH16 0.0-0.1**	**12 Dec 2023**	5	<0.3	-	4.0	31	7	-	<0.05	4.3	-	34	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH17 0.0-0.1**	**12 Dec 2023**	6	<0.3	-	21	17	15	-	0.05	10	-	21	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH18 0.0-0.1**	**12 Dec 2023**	5	<0.3	-	21	22	11	-	0.06	12	-	34	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH19 0.0-0.1**	**12 Dec 2023**	14	<0.3	-	10	6.4	17	-	<0.05	8.8	-	40	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH20 0.0-0.1**	**12 Dec 2023**	7	<0.3	230	11	6.0	20	290	<0.05	5.9	130	26	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH21 0.0-0.1**	**12 Dec 2023**	5	<0.3	-	11	18	14	-	<0.05	13	-	60	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH22 0.0-0.1**	**12 Dec 2023**	4	<0.3	-	7.5	8.0	12	-	<0.05	5.0	-	24	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH23 0.0-0.1**	**12 Dec 2023**	4	<0.3	-	6.4	24	12	-	<0.05	6.6	-	31	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH24 0.0-0.1**	**12 Dec 2023**	2	<0.3	-	7.4	7.6	12	-	<0.05	4.3	-	19	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH25 0.0-0.1**	**12 Dec 2023**	3	<0.3	-	45	21	5	-	<0.05	43	-	150	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH26 0.0-0.1**	**12 Dec 2023**	3	<0.3	-	13	17	8	-	0.05	6.9	-	17	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH27 0.0-0.1**	**12 Dec 2023**	5	<0.3	-	9.8	22	21	-	<0.05	5.7	-	33	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH28 0.0-0.1**	**12 Dec 2023**	4	<0.3	-	7.7	38	20	-	<0.05	7.3	-	59	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH29 0.0-0.1**	**12 Dec 2023**	3	<0.3	-	4.7	22	7	-	<0.05	2.3	-	21	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH30 0.0-0.1**	**12 Dec 2023**	3	<0.3	-	5.3	13	9	-	<0.05	2.4	-	11	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH31 0.0-0.1**	**12 Dec 2023**	5	<0.3	-	8.6	52	9	-	<0.05	2.7	-	18	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH32 0.0-0.1**	**12 Dec 2023**	4	<0.3	-	11	5.2	7	-	<0.05	1.4	-	6.6	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258534	**BH33 0.0-0.1**	**12 Dec 2023**	4	<0.3	810	10	9.7	19	240	<0.05	8.0	89	37	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH34 0.0-0.1**	**13 Dec 2023**	6	<0.3	-	5.6	69	6	-	<0.05	3.6	-	36	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH35 0.0-0.1**	**13 Dec 2023**	2	<0.3	-	37	25	8	-	<0.05	21	-	38	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH36 0.0-0.1**	**13 Dec 2023**	7	<0.3	-	6.3	41	7	-	<0.05	3.3	-	32	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH37 0.0-0.1**	**13 Dec 2023**	8	<0.3	-	33	38	10	-	<0.05	6.3	-	30	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH38 0.0-0.1**	**13 Dec 2023**	10	<0.3	-	35	27	14	-	<0.05	22	-	46	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH39 0.0-0.1**	**13 Dec 2023**	8	<0.3	-	65	30	8	-	<0.05	20	-	37	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH40 0.0-0.1**	**13 Dec 2023**	8	<0.3	-	63	68	9	-	<0.05	60	-	170	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH41 0.0-0.1**	**13 Dec 2023**	15	<0.3	-	57	54	7	-	<0.05	60	-	74	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH42 0.0-0.1**	**13 Dec 2023**	12	<0.3	1,100	98	37	9	1,100	<0.05	42	2,000	72	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH43 0.0-0.1**	**13 Dec 2023**	6	<0.3	-	5.5	32	7	-	<0.05	7.8	-	71	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH44 0.0-0.1**	**13 Dec 2023**	4	<0.3	-	17	22	8	-	<0.05	4.9	-	15	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH45 0.0-0.1**	**13 Dec 2023**	5	<0.3	-	23	27	15	-	<0.05	25	-	64	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH46 0.0-0.1**	**13 Dec 2023**	9	<0.3	-	26	15	16	-	<0.05	8.0	-	25	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6

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TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				Metals									BTEX							
			Arsenic	Cadmium	Calcium (filtered)	Chromium (III+VI)	Copper	Lead	Magnesium (filtered)	Mercury	Nickel	Potassium (filtered)	Zinc	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	0.3	2	0.5	0.5	1	2	0.05	0.5	2	2	0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.6
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	-	-	-	-	-	-	-	-	-	-	5	0.7	480	-	-	-	110	-
NEPM 2013 Table 1A(1) HILs Res A Soil			100	20	-	100 #	6,000	300	-	40	400	-	7,400	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			100	-	-	410 #	160	1,100	-	-	170	-	370	170	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	-	-	-	-	-	-	-	-	-	-	-	65	105	125	-	-	45	-
Lab Report Number	**Field ID**	**Date**																			
SE258536	**BH47 0.0-0.1**	**13 Dec 2023**	3	<0.3	-	12	11	12	-	<0.05	5.3	-	21	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH48 0.0-0.1**	**13 Dec 2023**	3	<0.3	-	10	19	17	-	<0.05	12	-	34	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH49 0.0-0.1**	**13 Dec 2023**	3	<0.3	-	14	10	16	-	<0.05	11	-	35	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH50 0.0-0.1**	**13 Dec 2023**	6	<0.3	-	6.2	8.9	6	-	<0.05	3.0	-	9.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH51 0.0-0.1**	**13 Dec 2023**	15	<0.3	-	13	24	11	-	<0.05	7.0	-	18	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH52 0.0-0.1**	**13 Dec 2023**	7	<0.3	-	19	19	21	-	<0.05	12	-	27	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH53 0.0-0.1**	**13 Dec 2023**	4	<0.3	-	7.8	20	6	-	<0.05	2.5	-	15	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH54 0.0-0.1**	**13 Dec 2023**	6	<0.3	-	6.5	39	7	-	<0.05	3.3	-	22	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH55 0.0-0.1**	**13 Dec 2023**	6	<0.3	-	7.4	120	20	-	0.05	4.4	-	27	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH56 0.0-0.1**	**13 Dec 2023**	6	<0.3	-	6.2	33	7	-	<0.05	9.2	-	36	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH57 0.0-0.1**	**13 Dec 2023**	5	<0.3	-	3.0	44	6	-	<0.05	5.3	-	23	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH58 0.0-0.1**	**14 Dec 2023**	5	<0.3	-	11	6.3	22	-	<0.05	5.9	-	16	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH59 0.0-0.1**	**14 Dec 2023**	5	<0.3	80	11	7.6	18	160	<0.05	9.1	130	29	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH60 0.0-0.1**	**14 Dec 2023**	4	<0.3	-	12	17	10	-	<0.05	14	-	43	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH61 0.0-0.1**	**14 Dec 2023**	4	<0.3	-	6.6	42	6	-	<0.05	4.8	-	37	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH62 0.0-0.1**	**14 Dec 2023**	3	<0.3	-	8.0	19	7	-	<0.05	3.6	-	11	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH63 0.0-0.1**	**14 Dec 2023**	5	<0.3	-	5.5	28	6	-	<0.05	2.1	-	15	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH64 0.0-0.1**	**14 Dec 2023**	5	<0.3	-	6.2	12	17	-	0.05	12	-	23	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH65 0.0-0.1**	**14 Dec 2023**	1	<0.3	-	2.7	3.6	5	-	<0.05	1.6	-	6.4	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH66 0.0-0.1**	**14 Dec 2023**	5	<0.3	-	3.6	46	5	-	<0.05	11	-	61	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH67 0.0-0.1**	**14 Dec 2023**	3	<0.3	-	3.3	7.3	8	-	<0.05	2.5	-	5.9	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH68 0.0-0.1**	**14 Dec 2023**	4	<0.3	-	5.0	11	6	-	<0.05	2.1	-	7.7	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH69 0.0-0.1**	**14 Dec 2023**	7	<0.3	-	6.9	25	10	-	<0.05	5.5	-	26	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH70 0.0-0.1**	**14 Dec 2023**	5	<0.3	710	8.9	14	11	300	<0.05	6.6	240	31	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH71 0.0-0.1**	**14 Dec 2023**	11	<0.3	-	5.2	65	8	-	<0.05	9.0	-	48	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH72 0.0-0.1**	**14 Dec 2023**	3	<0.3	-	11	14	9	-	<0.05	3.1	-	15	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH73 0.0-0.1**	**14 Dec 2023**	2	<0.3	-	8.9	3.1	6	-	<0.05	3.5	-	13	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH74 0.0-0.1**	**14 Dec 2023**	2	<0.3	-	13	13	7	-	<0.05	6.0	-	18	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH75 0.0-0.1**	**14 Dec 2023**	2	<0.3	-	10	3.5	7	-	<0.05	2.7	-	7.9	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH76 0.0-0.1**	**14 Dec 2023**	7	<0.3	-	11	55	7	-	<0.05	3.8	-	28	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**BH77 0.0-0.1**	**14 Dec 2023**	3	<0.3	-	8.1	11	8	-	<0.05	2.9	-	8.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**QC1**	**14 Dec 2023**	4	<0.3	-	7.0	7.6	12	-	<0.05	5.0	-	23	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**QC3**	**14 Dec 2023**	8	<0.3	-	91	67	7	-	<0.05	61	-	150	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**QC5**	**14 Dec 2023**	4	<0.3	-	14	23	10	-	<0.05	16	-	49	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258536	**QC7**	**14 Dec 2023**	2	<0.3	-	8.0	12	7	-	<0.05	3.0	-	8.2	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6

NOTES
Cells containing '-' have no available results for that CoPC
* USEPA RSL THQ=1.0 for residential soil
# value for Cr III adopted

TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			TRH							TPH						Silica Gel Cleanup								
			C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	C37-C40 Fraction	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	TRH C10-C14-Silica	TRH C15-C28-Silica	TRH C29-C36-Silica	TRH C37-C40-Silica	TRH >C10-C16-Silica	TRH >C10-C16-Silica minus Naphthalene (F2)	TRH >C16-C34-Silica (F3)	TRH >C34-C40-Silica (F4)	TRH C10-C36-Silica
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			25	25	25	25	90	120	210	100	20	20	45	45	110	20	45	45	100	25	25	90	120	110
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	50	-	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	180	120	120	1,300	5,600	-	-	-	-	-	-	-	-	-	-	-	120	120	1,300	5,600	-
Lab Report Number	**Field ID**	**Date**																						
SE258534	**BH1 0.0-0.1**	**11 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	-	-	-	-	-	-	-	-	-
SE258534	**BH2 0.0-0.1**	**11 Dec 2023**	<25	<25	<25	<25	160	<120	<210	<100	<20	<20	100	86	190	-	-	-	-	-	-	-	-	-
SE258534	**BH3 0.0-0.1**	**11 Dec 2023**	<25	<25	<25	<25	140	<120	<210	<100	<20	<20	82	90	170	-	-	-	-	-	-	-	-	-
SE258534	**BH4 0.0-0.1**	**11 Dec 2023**	<25	<25	<25	<25	96	<120	<210	<100	<20	<20	56	59	110	-	-	-	-	-	-	-	-	-
SE258534	**BH5 0.0-0.1**	**11 Dec 2023**	<25	<25	<25	<25	100	<120	<210	<100	<20	<20	59	60	120	-	-	-	-	-	-	-	-	-
SE258534	**BH6 0.0-0.1**	**11 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	46	53	<110	-	-	-	-	-	-	-	-	-
SE258534	**BH7 0.0-0.1**	**11 Dec 2023**	<25	<25	<25	<25	250	<120	250	<100	<20	<20	120	180	300	-	-	-	-	-	-	-	-	-
SE258534	**BH8 0.0-0.1**	**11 Dec 2023**	<25	<25	<25	<25	120	<120	<210	<100	<20	<20	68	69	140	-	-	-	-	-	-	-	-	-
SE258534	**BH9 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	170	<120	<210	<100	<20	<20	110	86	190	-	-	-	-	-	-	-	-	-
SE258534	**BH10 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	110	<120	<210	<100	<20	<20	71	65	140	-	-	-	-	-	-	-	-	-
SE258534	**BH11 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	230	<120	230	<100	<20	<20	120	160	290	<20	<45	<45	<100	<25	<25	<90	<120	<110
SE258534	**BH12 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	130	<120	<210	<100	<20	<20	78	83	160	-	-	-	-	-	-	-	-	-
SE258534	**BH13 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	120	<120	<210	<100	<20	<20	56	85	140	-	-	-	-	-	-	-	-	-
SE258534	**BH14 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	250	<120	250	<100	<20	<20	130	160	300	<20	<45	<45	<100	<25	<25	<90	<120	<110
SE258534	**BH15 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	150	<120	<210	<100	<20	<20	78	120	200	-	-	-	-	-	-	-	-	-
SE258534	**BH16 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	150	<120	<210	<100	<20	<20	86	98	180	-	-	-	-	-	-	-	-	-
SE258534	**BH17 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	51	<110	-	-	-	-	-	-	-	-	-
SE258534	**BH18 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	100	<120	<210	<100	<20	<20	55	70	120	-	-	-	-	-	-	-	-	-
SE258534	**BH19 0.0-0.1**	**12 Dec 2023**	<25	<25	25	25	320	<120	340	<100	<20	<20	210	200	400	<20	<45	<45	<100	<25	<25	<90	<120	<110
SE258534	**BH20 0.0-0.1**	**12 Dec 2023**	<25	<25	39	39	430	120	590	<100	<20	<20	210	320	530	**52**	**71**	<45	<100	**120**	**120**	<90	<120	**120**
SE258534	**BH21 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	180	<120	<210	<100	<20	<20	92	130	220	<20	<45	<45	<100	<25	<25	<90	<120	<110
SE258534	**BH22 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	130	<120	<210	<100	<20	<20	68	94	160	-	-	-	-	-	-	-	-	-
SE258534	**BH23 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	180	<120	<210	<100	<20	<20	98	120	210	-	-	-	-	-	-	-	-	-
SE258534	**BH24 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	140	<120	<210	<100	<20	<20	76	99	170	-	-	-	-	-	-	-	-	-
SE258534	**BH25 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	110	<120	<210	<100	<20	<20	63	73	140	-	-	-	-	-	-	-	-	-
SE258534	**BH26 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	-	-	-	-	-	-	-	-	-
SE258534	**BH27 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	-	-	-	-	-	-	-	-	-
SE258534	**BH28 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	120	<120	<210	<100	<20	<20	57	76	130	-	-	-	-	-	-	-	-	-
SE258534	**BH29 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	110	<120	<210	<100	<20	<20	60	59	120	<20	<45	<45	<100	<25	<25	<90	<120	<110
SE258534	**BH30 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	93	<120	<210	<100	<20	<20	55	49	<110	-	-	-	-	-	-	-	-	-
SE258534	**BH31 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	120	<120	<210	<100	<20	<20	63	63	130	-	-	-	-	-	-	-	-	-
SE258534	**BH32 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	130	<120	<210	<100	<20	<20	84	61	140	-	-	-	-	-	-	-	-	-
SE258534	**BH33 0.0-0.1**	**12 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	53	<45	<110	-	-	-	-	-	-	-	-	-
SE258536	**BH34 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	110	<120	<210	<100	<20	<20	64	53	120	-	-	-	-	-	-	-	-	-
SE258536	**BH35 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	47	<110	-	-	-	-	-	-	-	-	-
SE258536	**BH36 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	130	<120	<210	<100	<20	<20	47	91	140	-	-	-	-	-	-	-	-	-
SE258536	**BH37 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	120	<120	<210	<100	<20	<20	48	85	130	-	-	-	-	-	-	-	-	-
SE258536	**BH38 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	130	<120	<210	<100	<20	<20	58	79	140	-	-	-	-	-	-	-	-	-
SE258536	**BH39 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	190	<120	<210	<100	<20	<20	100	110	210	-	-	-	-	-	-	-	-	-
SE258536	**BH40 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	170	<120	<210	<100	<20	<20	93	93	190	-	-	-	-	-	-	-	-	-
SE258536	**BH41 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	200	<120	<210	<100	<20	<20	98	120	220	<20	<45	<45	<100	<25	<25	<90	<120	<110
SE258536	**BH42 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	130	<120	<210	<100	<20	<20	71	75	150	-	-	-	-	-	-	-	-	-
SE258536	**BH43 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	190	<120	<210	<100	<20	<20	98	100	200	-	-	-	-	-	-	-	-	-
SE258536	**BH44 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	170	<120	<210	<100	<20	<20	84	100	190	-	-	-	-	-	-	-	-	-
SE258536	**BH45 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	-	-	-	-	-	-	-	-	-
SE258536	**BH46 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	47	<110	-	-	-	-	-	-	-	-	-

TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			TRH							TPH						Silica Gel Cleanup								
			C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	C37-C40 Fraction	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	TRH C10-C14-Silica	TRH C15-C28-Silica	TRH C29-C36-Silica	TRH C37-C40-Silica	TRH >C10-C16-Silica	TRH >C10-C16-Silica minus Naphthalene (F2)	TRH >C16-C34-Silica (F3)	TRH >C34-C40-Silica (F4)	TRH C10-C36-Silica
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			25	25	25	25	90	120	210	100	20	20	45	45	110	20	45	45	100	25	25	90	120	110
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	50	-	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	180	120	120	1,300	5,600	-	-	-	-	-	-	-	-	-	-	-	120	120	1,300	5,600	-
Lab Report Number	**Field ID**	**Date**																						
SE258536	**BH47 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	-	-	-	-	-	-	-	-	-
SE258536	**BH48 0.0-0.1**	**13 Dec 2023**	<25	<25	26	26	180	<120	<210	<100	<20	<20	100	110	210	<20	<45	<45	<100	<25	<25	<90	<120	<110
SE258536	**BH49 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	120	<120	<210	<100	<20	<20	67	62	130	-	-	-	-	-	-	-	-	-
SE258536	**BH50 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	130	<120	<210	<100	<20	<20	64	77	140	-	-	-	-	-	-	-	-	-
SE258536	**BH51 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	130	<120	<210	<100	<20	<20	78	58	140	-	-	-	-	-	-	-	-	-
SE258536	**BH52 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	160	<120	<210	<100	<20	<20	94	82	180	-	-	-	-	-	-	-	-	-
SE258536	**BH53 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	150	<120	<210	<100	<20	<20	85	77	160	-	-	-	-	-	-	-	-	-
SE258536	**BH54 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	160	<120	<210	<100	<20	<20	92	80	170	-	-	-	-	-	-	-	-	-
SE258536	**BH55 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	140	<120	<210	<100	<20	<20	71	76	150	<20	<45	<45	<100	<25	<25	<90	<120	<110
SE258536	**BH56 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	120	<120	<210	<100	<20	<20	61	69	130	-	-	-	-	-	-	-	-	-
SE258536	**BH57 0.0-0.1**	**13 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	-	-	-	-	-	-	-	-	-
SE258536	**BH58 0.0-0.1**	**14 Dec 2023**	<25	<25	37	37	140	<120	<210	<100	<20	28	110	68	200	<20	<45	<45	<100	<25	<25	<90	<120	<110
SE258536	**BH59 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	100	<120	<210	<100	<20	<20	56	60	120	-	-	-	-	-	-	-	-	-
SE258536	**BH60 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	120	<120	<210	<100	<20	<20	48	83	130	-	-	-	-	-	-	-	-	-
SE258536	**BH61 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	54	<110	-	-	-	-	-	-	-	-	-
SE258536	**BH62 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	120	<120	<210	<100	<20	<20	52	86	140	-	-	-	-	-	-	-	-	-
SE258536	**BH63 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	200	<120	<210	<100	<20	<20	93	130	220	<20	<45	<45	<100	<25	<25	<90	<120	<110
SE258536	**BH64 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	170	<120	<210	<100	<20	<20	70	130	200	-	-	-	-	-	-	-	-	-
SE258536	**BH65 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	180	<120	<210	<100	<20	<20	92	190	280	-	-	-	-	-	-	-	-	-
SE258536	**BH66 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	130	<120	<210	<100	<20	<20	71	84	160	-	-	-	-	-	-	-	-	-
SE258536	**BH67 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	140	<120	<210	<100	<20	<20	74	86	160	-	-	-	-	-	-	-	-	-
SE258536	**BH68 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	54	<110	-	-	-	-	-	-	-	-	-
SE258536	**BH69 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	120	<120	<210	<100	<20	<20	59	80	140	-	-	-	-	-	-	-	-	-
SE258536	**BH70 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	140	<120	<210	<100	<20	<20	87	80	170	-	-	-	-	-	-	-	-	-
SE258536	**BH71 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	220	<120	220	<100	<20	<20	130	180	310	<20	<45	<45	<100	<25	<25	<90	<120	<110
SE258536	**BH72 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	110	<120	<210	<100	<20	<20	68	58	130	-	-	-	-	-	-	-	-	-
SE258536	**BH73 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	66	<110	-	-	-	-	-	-	-	-	-
SE258536	**BH74 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	94	<120	<210	<100	<20	<20	46	60	<110	-	-	-	-	-	-	-	-	-
SE258536	**BH75 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	170	<120	<210	<100	<20	<20	90	100	190	-	-	-	-	-	-	-	-	-
SE258536	**BH76 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	610	180	790	<100	<20	<20	180	570	750	<20	<45	<45	<100	<25	<25	<90	<120	<110
SE258536	**BH77 0.0-0.1**	**14 Dec 2023**	<25	<25	<25	<25	230	<120	230	<100	<20	<20	100	160	260	-	-	-	-	-	-	-	-	-
SE258536	**QC1**	**14 Dec 2023**	<25	<25	<25	<25	250	<120	250	<100	<20	<20	140	160	300	-	-	-	-	-	-	-	-	-
SE258536	**QC3**	**14 Dec 2023**	<25	<25	<25	<25	110	<120	<210	<100	<20	<20	58	73	130	-	-	-	-	-	-	-	-	-
SE258536	**QC5**	**14 Dec 2023**	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	59	<110	-	-	-	-	-	-	-	-	-
SE258536	**QC7**	**14 Dec 2023**	<25	<25	<25	<25	200	<120	<210	<100	<20	<20	97	140	230	-	-	-	-	-	-	-	-	-

NOTES
Cells containing '-' have no available results for that CoPC
* USEPA RSL THQ=1.0 for residential soil
# value for Cr III adopted

lanterra consulting

TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			PAH																					
			1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Zero)	PAHs (Sum of total)	PAHs (Sum of positives)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.8	0.8
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	300	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	-	-	-	-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**																							
SE258534	**BH1 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH2 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH3 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH4 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH5 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH6 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH7 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH8 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH9 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH10 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH11 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH12 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH13 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH14 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH15 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH16 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH17 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH18 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH19 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH20 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH21 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH22 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH23 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH24 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH25 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH26 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH27 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH28 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH29 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH30 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH31 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH32 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258534	**BH33 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH34 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH35 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH36 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH37 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH38 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH39 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH40 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH41 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH42 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH43 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH44 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH45 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH46 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8

TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			PAH																					
			1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Zero)	PAHs (Sum of total)	PAHs (Sum of positives)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.8	0.8
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	300	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	-	-	-	-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**																							
SE258536	**BH47 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH48 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH49 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH50 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH51 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH52 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH53 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH54 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH55 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH56 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH57 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH58 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH59 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH60 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH61 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH62 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH63 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH64 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH65 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH66 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH67 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH68 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH69 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH70 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH71 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH72 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH73 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH74 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH75 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH76 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**BH77 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**QC1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**QC3**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**QC5**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**QC7**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8

NOTES
Cells containing '-' have no available results for that CoPC
* USEPA RSL THQ=1.0 for residential soil
# value for Cr III adopted

TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			Phenols															Organochlorine Pesticides					
			3&4-Methylphenol (m&p-cresol)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2,3,4,6 & 2,3,5,6-Tetrachlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Phenol	Organochlorine pesticides EPAVic	2,4-DDT	4,4-DDE	a-BHC	Aldrin	b-BHC
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	0.5	0.5	0.5	0.5	2	0.5	1	0.5	0.5	0.5	2	1	1.5	0.5	0.5	1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	-	-	-	-	-	-	-	-	-	-	-	-	400	100	3,000	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**																						
SE258534	**BH1 0.0-0.1**	**11 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH2 0.0-0.1**	**11 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH3 0.0-0.1**	**11 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH4 0.0-0.1**	**11 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH5 0.0-0.1**	**11 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH6 0.0-0.1**	**11 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH7 0.0-0.1**	**11 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH8 0.0-0.1**	**11 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH9 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH10 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH11 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH12 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH13 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH14 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH15 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH16 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH17 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH18 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH19 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH20 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH21 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH22 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH23 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH24 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH25 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH26 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH27 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH28 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH29 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH30 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH31 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH32 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH33 0.0-0.1**	**12 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH34 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH35 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH36 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH37 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH38 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH39 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH40 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH41 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH42 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH43 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH44 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH45 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH46 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1

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TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			Phenols															Organochlorine Pesticides					
			3&4-Methylphenol (m&p-cresol)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2,3,4,6 & 2,3,5,6-Tetrachlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Phenol	Organochlorine pesticides EPAVic	2,4-DDT	4,4-DDE	a-BHC	Aldrin	b-BHC
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	0.5	0.5	0.5	0.5	2	0.5	1	0.5	0.5	0.5	2	1	1.5	0.5	0.5	1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	-	-	-	-	-	-	-	-	-	-	-	-	400	100	3,000	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**																						
SE258536	**BH47 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH48 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH49 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH50 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH51 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH52 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH53 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH54 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH55 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH56 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH57 0.0-0.1**	**13 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH58 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH59 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH60 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH61 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH62 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH63 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH64 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH65 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH66 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH67 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH68 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH69 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH70 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH71 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH72 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH73 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH74 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH75 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH76 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH77 0.0-0.1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**QC1**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**QC3**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**QC5**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**QC7**	**14 Dec 2023**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1

NOTES
Cells containing '-' have no available results for that CoPC
* USEPA RSL THQ=1.0 for residential soil
# value for Cr III adopted

TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			Organochlorine Pesticides																					
			Chlordane (cis)	Chlordane (technical)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Isodrin	Methoxychlor	Mirex	o,p-DDD	o,p'-DDE	trans-Nonachlor
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			50	50	-	-	-	-	-	-	-	10	-	-	10	6	-	10	-	300	10	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**																						
SE258534	**BH1 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH2 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH3 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH4 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH5 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH6 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH7 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH8 0.0-0.1**	**11 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH9 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH10 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH11 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH12 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH13 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH14 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH15 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH16 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH17 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH18 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH19 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH20 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH21 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH22 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH23 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH24 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH25 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH26 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH27 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH28 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH29 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH30 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH31 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH32 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258534	**BH33 0.0-0.1**	**12 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH34 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH35 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH36 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH37 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH38 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH39 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH40 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH41 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH42 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH43 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH44 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH45 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH46 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

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TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			Organochlorine Pesticides																					
			Chlordane (cis)	Chlordane (technical)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Isodrin	Methoxychlor	Mirex	o,p-DDD	o,p'-DDE	trans-Nonachlor
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			50	50	-	-	-	-	-	-	-	10	-	-	10	6	-	10	-	300	10	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**																						
SE258536	**BH47 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH48 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH49 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH50 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH51 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH52 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH53 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH54 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH55 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH56 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH57 0.0-0.1**	**13 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH58 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH59 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH60 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH61 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH62 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH63 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH64 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH65 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH66 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH67 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH68 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH69 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH70 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH71 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH72 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH73 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH74 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH75 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH76 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**BH77 0.0-0.1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**QC1**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**QC3**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**QC5**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258536	**QC7**	**14 Dec 2023**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

NOTES
Cells containing '-' have no available results for that CoPC
* USEPA RSL THQ=1.0 for residential soil
# value for Cr III adopted

TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			Organophosphorous Pesticides										PCBs									
			Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Methidathion	Parathion	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Arochlor 1268	Aroclor 1262	PCBs (Sum of total)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	-	160	-	-	-	-	-	130 *	-	-	-	-	-	-	-	-	-	-	-	1
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**																					
SE258534	**BH1 0.0-0.1**	**11 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH2 0.0-0.1**	**11 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH3 0.0-0.1**	**11 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH4 0.0-0.1**	**11 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH5 0.0-0.1**	**11 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH6 0.0-0.1**	**11 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH7 0.0-0.1**	**11 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH8 0.0-0.1**	**11 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH9 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH10 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH11 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH12 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH13 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH14 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH15 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH16 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH17 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH18 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH19 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH20 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH21 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH22 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH23 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH24 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH25 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH26 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH27 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH28 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH29 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH30 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH31 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH32 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258534	**BH33 0.0-0.1**	**12 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH34 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH35 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH36 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH37 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH38 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH39 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH40 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH41 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH42 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH43 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	0.3	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH44 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH45 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH46 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1

TABLE 1: Laboratory Analysis Results - Soil (background boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			Organophosphorous Pesticides										PCBs									
			Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Methidathion	Parathion	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Arochlor 1268	Aroclor 1262	PCBs (Sum of total)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1
NEPM 2013 Table 1A(3) Res A/B Soil HSL, Clay 0-1 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	-	160	-	-	-	-	-	130 *	-	-	-	-	-	-	-	-	-	-	-	1
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil 0-2 m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**																					
SE258536	**BH47 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH48 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH49 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH50 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH51 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH52 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH53 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH54 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH55 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH56 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH57 0.0-0.1**	**13 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH58 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH59 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH60 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH61 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH62 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH63 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH64 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH65 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH66 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH67 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH68 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH69 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH70 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH71 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH72 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH73 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH74 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH75 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH76 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**BH77 0.0-0.1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**QC1**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**QC3**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**QC5**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1
SE258536	**QC7**	**14 Dec 2023**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1

NOTES
Cells containing '-' have no available results for that CoPC
* USEPA RSL THQ=1.0 for residential soil
# value for Cr III adopted

TABLE 2: Laboratory Analysis Results - Soil (AEC boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			Inorganics	Metals								Phenols																
			% Moisture	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	3&4-Methylphenol (m&p-cresol)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2,3,4,6 & 2,3,5,6-Tetrachlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Phenol
			%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	1	0.3	0.5	0.5	1	0.05	0.5	2	1	0.5	0.5	0.5	0.5	2	0.5	1	0.5	0.5	0.5	2	1	1.5	0.5	0.5
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL , Clay >=0m, <1m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	100	-	410#	160	1,100	-	170	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	100	20	-	6,000	300	40	400	7,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	400	100	3,000
Lab Report Number	**Field ID**	**Date**																										
SE259505	**LC1 0.0-0.1**	**18 Jan 2024**	10.8	5	<0.3	2.6	33	6	<0.05	2.6	57	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC2 0.0-0.1**	**18 Jan 2024**	8.7	7	<0.3	6.9	50	15	0.06	10	73	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC3 0.0-0.1**	**18 Jan 2024**	10.4	4	<0.3	6.1	20	9	<0.05	6.0	39	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC4 0.0-0.1**	**18 Jan 2024**	8.6	10	<0.3	6.0	29	11	<0.05	9.1	38	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC5 0.0-0.1**	**18 Jan 2024**	14.0	6	<0.3	4.0	37	7	<0.05	4.3	49	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC6 0.0-0.1**	**18 Jan 2024**	11.7	5	<0.3	5.1	36	7	<0.05	5.9	55	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC7 0.0-0.1**	**18 Jan 2024**	11.7	5	<0.3	5.2	28	8	<0.05	4.6	69	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC8 0.0-0.1**	**18 Jan 2024**	13.3	5	<0.3	4.7	24	9	<0.05	4.0	38	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC9 0.5-0.6**	**18 Jan 2024**	10.2	10	<0.3	12	26	12	<0.05	9.3	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC10 0.0-0.1**	**18 Jan 2024**	10.5	9	<0.3	10	33	9	<0.05	8.3	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC11 0.0-0.1**	**18 Jan 2024**	12.8	8	<0.3	10	20	11	<0.05	7.1	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC12 0.0-0.1**	**18 Jan 2024**	11.2	10	<0.3	12	38	10	<0.05	8.4	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC13 0.5-0.6**	**18 Jan 2024**	15.7	5	<0.3	17	23	11	<0.05	8.4	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC14 0.0-0.1**	**18 Jan 2024**	9.0	6	<0.3	11	27	13	<0.05	8.8	41	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC15 0.0-0.1**	**18 Jan 2024**	10.4	5	<0.3	5.5	21	8	<0.05	2.9	15	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC16 0.0-0.1**	**18 Jan 2024**	11.0	2	<0.3	6.2	7.3	7	<0.05	3.8	44	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC17 0.5-0.6**	**18 Jan 2024**	9.2	3	<0.3	4.9	13	10	<0.05	3.7	9.4	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC18 0.0-0.1**	**18 Jan 2024**	9.9	2	<0.3	5.5	12	5	<0.05	9.5	26	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC19 0.0-0.1**	**18 Jan 2024**	11.3	4	<0.3	8.2	12	9	<0.05	7.2	26	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC20 0.0-0.1**	**18 Jan 2024**	32.5	4	<0.3	10	13	14	<0.05	8.1	33	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC21 0.5-0.6**	**18 Jan 2024**	19.7	5	<0.3	17	21	22	<0.05	4.7	15	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC22 0.0-0.1**	**19 Jan 2024**	31.2	4	<0.3	6.1	13	10	<0.05	3.1	22	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC23 0.0-0.1**	**19 Jan 2024**	23.3	4	<0.3	18	17	12	0.07	11	21	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC24 0.0-0.1**	**19 Jan 2024**	15.7	4	<0.3	27	24	9	<0.05	6.2	20	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC25 0.0-0.1**	**19 Jan 2024**	26.8	7	0.3	26	27	21	<0.05	6.9	100	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC26 0.0-0.1**	**19 Jan 2024**	28.4	6	<0.3	20	9.7	26	<0.05	6.1	34	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC27 0.0-0.1**	**19 Jan 2024**	17.7	3	<0.3	22	11	8	<0.05	6.6	44	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC28 0.0-0.1**	**19 Jan 2024**	18.2	3	<0.3	21	20	12	<0.05	6.1	30	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC29 0.0-0.1**	**19 Jan 2024**	20.5	5	<0.3	27	25	28	0.06	10	94	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC30 0.0-0.1**	**19 Jan 2024**	18.3	2	<0.3	130	22	3	<0.05	84	65	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC31 0.0-0.1**	**19 Jan 2024**	13.3	2	<0.3	120	19	2	<0.05	87	50	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC32 0.0-0.1**	**19 Jan 2024**	13.9	4	<0.3	8.6	18	18	<0.05	14	37	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC33 0.0-0.1**	**19 Jan 2024**	26.0	8	<0.3	5.0	24	5	<0.05	4.2	42	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC34 0.5-0.6**	**19 Jan 2024**	26.8	6	<0.3	1.0	49	1	<0.05	3.9	70	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC35 0.0-0.1**	**19 Jan 2024**	15.9	5	<0.3	18	27	13	<0.05	18	42	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC36 0.0-0.1**	**19 Jan 2024**	15.9	1	<0.3	66	18	1	<0.05	28	37	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**LC37 0.0-0.1**	**19 Jan 2024**	20.6	2	<0.3	70	24	3	<0.05	70	42	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259505	**QC1**	**18 Jan 2024**	21.8	4	<0.3	10	14	10	<0.05	7.9	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**QC3**	**19 Jan 2024**	25.9	7	<0.3	34	28	10	<0.05	7.0	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**ACM1**	**18 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**ACM2**	**19 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES
Cells containing '-' have no available results for that CoPC

TABLE 2: Laboratory Analysis Results - Soil (AEC boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			BTEX								TRH							TPH							PAH															
			Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	C37-C40 Fraction	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.6	25	25	25	25	90	120	210	100	20	20	45	45	110	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL , Clay >=0m, <1m			-	4	-	-	-	-	-	-	-	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil			-	65	105	125	-	-	45	-	-	180	120	120	1,300	5,600	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**																																						
SE259505	**LC1 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC2 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC3 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC4 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC5 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC6 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC7 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC8 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC9 0.5-0.6**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC10 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC11 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC12 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC13 0.5-0.6**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC14 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC15 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC16 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC17 0.5-0.6**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC18 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC19 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC20 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC21 0.5-0.6**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC22 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC23 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC24 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC25 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC26 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC27 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC28 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC29 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC30 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC31 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC32 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC33 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	110	<120	<210	<100	<20	<20	61	70	130	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC34 0.5-0.6**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC35 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC36 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC37 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**QC1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**QC3**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**ACM1**	**18 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**ACM2**	**19 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES
Cells containing '-' have no available results for that CoPC

TABLE 2: Laboratory Analysis Results - Soil (AEC boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			PAH										Organochlorine Pesticides																				Organochlori			
			Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Zero)	PAHs (Sum of total)	PAHs (Sum of positives)	Organochlorine pesticides EPAVic	2,4-DDT	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (technical)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Isodrin	Methoxychlor
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.8	0.8	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL , Clay >=0m, <1m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			-	-	-	-	-	3	3	3	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	6	-	10	-	300
Lab Report Number	**Field ID**	**Date**																																		
SE259505	**LC1 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC2 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC3 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC4 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC5 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC6 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC7 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC8 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC9 0.5-0.6**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC10 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC11 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC12 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC13 0.5-0.6**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC14 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC15 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC16 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC17 0.5-0.6**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC18 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC19 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC20 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC21 0.5-0.6**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC22 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC23 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC24 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC25 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC26 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC27 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC28 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC29 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC30 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC31 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC32 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC33 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC34 0.5-0.6**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC35 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC36 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**LC37 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259505	**QC1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**QC3**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**ACM1**	**18 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**ACM2**	**19 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES
Cells containing '-' have no available results for that CoPC

TABLE 2: Laboratory Analysis Results - Soil (AEC boreholes)
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

			ne Pesticides				Organophosphorous Pesticides										PCBs										Asbestos		
			Mirex	o,p-DDD	o,p'-DDE	trans-Nonachlor	Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Methidathion	Parathion	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Arochlor 1268	Aroclor 1262	PCBs (Sum of total)	Asbestos fibres	Detect	Estimated Fibres
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	No unit	Detect	mg/kg
EQL			0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1	0	0	100
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL , Clay >=0m, <1m			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) Generic EIL - Urban Res & Public Open Space			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil			10	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Lab Report Number	**Field ID**	**Date**																												
SE259505	**LC1 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC2 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC3 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC4 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC5 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC6 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC7 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC8 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC9 0.5-0.6**	**18 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC10 0.0-0.1**	**18 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC11 0.0-0.1**	**18 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC12 0.0-0.1**	**18 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC13 0.5-0.6**	**18 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**LC14 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC15 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC16 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC17 0.5-0.6**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC18 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC19 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC20 0.0-0.1**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC21 0.5-0.6**	**18 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC22 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC23 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC24 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC25 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC26 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC27 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC28 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC29 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC30 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC31 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC32 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC33 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC34 0.5-0.6**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC35 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC36 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**LC37 0.0-0.1**	**19 Jan 2024**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	-	No	<100
SE259505	**QC1**	**18 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**QC3**	**19 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259505	**ACM1**	**18 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-
SE259505	**ACM2**	**19 Jan 2024**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-

NOTES
Cells containing '-' have no available results for that CoPC

TABLE 3: Laboratory Analysis Results - Sediment
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				Heavy Metals								BTEX						
				Arsenic, As	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury	Nickel, Ni	Zinc, Zn	Benzene	Toluene	Ethylbenzene	m/p-xylene	o-xylene	Total Xylenes	Total BTEX
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				1	0.3	0.5	0.5	1	0.05	0.5	2	0.1	0.1	0.1	0.2	0.1	0.3	0.6
ISQG - DGV				20	1.5	80.0	65.0	50	-	21.0	200	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**	**Matrix**															
SE258533	**CS-1-S**	**12 Dec 2023**	**Sediment**	**6**	<0.3	**30**	**26**	**9**	<0.05	**13**	**40**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**CS-2-S**	**14 Dec 2023**	**Sediment**	**3**	<0.3	**4.9**	**14**	**11**	**0.05**	**6.7**	**31**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**CS-3-S**	**14 Dec 2023**	**Sediment**	**4**	<0.3	**4.6**	**14**	**6**	<0.05	**1.3**	**7**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**CS-4-S**	**14 Dec 2023**	**Sediment**	**4**	<0.3	**13**	**6.9**	**10**	<0.05	**3.7**	**13**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**CS-5-S**	**14 Dec 2023**	**Sediment**	**4**	<0.3	**12**	**9.4**	**7**	<0.05	**2.4**	**6**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**CS-6-S**	**14 Dec 2023**	**Sediment**	**4**	<0.3	**4.8**	**24**	**7**	<0.05	**2.5**	**18**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**CS-7-S**	**15 Dec 2023**	**Sediment**	**3**	<0.3	**6.8**	**15**	**4**	<0.05	**2.1**	**16**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**CS-8-S**	**15 Dec 2023**	**Sediment**	**6**	<0.3	**19**	**26**	**5**	<0.05	**12**	**27**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**CS-9-S**	**15 Dec 2023**	**Sediment**	**8**	<0.3	**29**	**27**	**13**	<0.05	**15**	**44**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**CS-10-S**	**15 Dec 2023**	**Sediment**	**5**	<0.3	**40**	**44**	**5**	**0.05**	**23**	**56**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**CS-11-S**	**15 Dec 2023**	**Sediment**	**3**	<0.3	**11**	**14**	**5**	<0.05	**4.9**	**94**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**CS-12-S**	**15 Dec 2023**	**Sediment**	**5**	<0.3	**8.3**	**17**	**9**	<0.05	**3.9**	**16**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**DS1-S**	**14 Dec 2023**	**Sediment**	**6**	<0.3	**8.6**	**26**	**10**	<0.05	**3.3**	**19**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**DS2-S**	**14 Dec 2023**	**Sediment**	**4**	<0.3	**5.6**	**48**	**6**	<0.05	**6.2**	**12**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**DS3-S**	**14 Dec 2023**	**Sediment**	**7**	<0.3	**7.2**	**32**	**9**	<0.05	**5.1**	**45**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**DS4-S**	**15 Dec 2023**	**Sediment**	**5**	<0.3	**6.9**	**20**	**9**	<0.05	**3.1**	**25**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**DS5-S**	**14 Dec 2023**	**Sediment**	**6**	<0.3	**23**	**26**	**7**	<0.05	**11**	**31**	<0.1	**0.2**	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**DS6-S**	**15 Dec 2023**	**Sediment**	**2**	<0.3	**6.8**	**30**	**4**	<0.05	**3.3**	**19**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**DS7-S**	**15 Dec 2023**	**Sediment**	**3**	<0.3	**4.3**	**39**	**5**	<0.05	**1.0**	**13**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**DS8-S**	**15 Dec 2023**	**Sediment**	**2**	<0.3	**8.7**	**23**	**7**	<0.05	**3.8**	**16**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**DS9-S**	**15 Dec 2023**	**Sediment**	**2**	<0.3	**7.4**	**17**	**6**	<0.05	**3.2**	**18**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**DS10-S**	**15 Dec 2023**	**Sediment**	**4**	<0.3	**26**	**41**	**7**	<0.05	**12**	**44**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**QC9**	**15 Dec 2023**	**Sediment**	**3**	<0.3	**25**	**20**	**12**	<0.05	**12**	**38**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533	**QC11**	**15 Dec 2023**	**Sediment**	**2**	<0.3	**33**	**38**	**5**	**0.06**	**22**	**54**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6

NOTES:
* criteria adopted from USEPA RSLs for residential soil THQ=1.0

TABLE 3: Laboratory Analysis Results - Sediment
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				TRH															
				Naphthalene (VOC)	TRH C6-C9	Benzene (F0)	TRH C6-C10	TRH C6-C10 minus BTEX (F1)	TRH C10-C14	TRH C10-C36	TRH C15-C28	TRH C29-C36	TRH C37-C40	TRH >C10-C16	TRH >C10-C16 - Naphthalene (F2)	TRH >C16-C34 (F3)	TRH >C34-C40 (F4)	TRH C10-C36 Total	TRH >C10-C40 Total (F bands)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	20	0.1	25	25	20	110	45	45	100	25	25	90	120	110	210
ISQG - DGV				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**	**Matrix**																
SE258533	**CS-1-S**	**12 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**CS-2-S**	**14 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	**140**	**68**	**71**	<100	<25	<25	**120**	<120	**140**	<210
SE258533	**CS-3-S**	**14 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	**92**	<100	<25	<25	**100**	<120	<110	<210
SE258533	**CS-4-S**	**14 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	**210**	**100**	**110**	<100	<25	<25	**170**	<120	**210**	<210
SE258533	**CS-5-S**	**14 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**CS-6-S**	**14 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**CS-7-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	**160**	**54**	**110**	<100	<25	<25	**140**	<120	**160**	<210
SE258533	**CS-8-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**CS-9-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	**72**	<100	<25	<25	**91**	<120	<110	<210
SE258533	**CS-10-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**CS-11-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**CS-12-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**DS1-S**	**14 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**DS2-S**	**14 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**DS3-S**	**14 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**DS4-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**DS5-S**	**14 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	**67**	<100	<25	<25	**92**	<120	<110	<210
SE258533	**DS6-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**DS7-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**DS8-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	**56**	<100	<25	<25	<90	<120	<110	<210
SE258533	**DS9-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	**54**	<100	<25	<25	<90	<120	<110	<210
SE258533	**DS10-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533	**QC9**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	**71**	<100	<25	<25	**94**	<120	<110	<210
SE258533	**QC11**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	**46**	<45	<100	<25	<25	<90	<120	<110	<210

NOTES:
* criteria adopted from USEPA RSLs for residential soil THQ=1.0

TABLE 3: Laboratory Analysis Results - Sediment
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				Phenols															
				Phenol	2-methyl phenol (o-cresol)	3/4-methyl phenol (m/p-cresol)	Total Cresol	2-chlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2,4-dichlorophenol	2,4,6-trichlorophenol	2-nitrophenol	4-nitrophenol	2,4,5-trichlorophenol	2,3,4,6/2,3,5,6-tetrachlorophenol	Pentachlorophenol	2,4-dinitrophenol	4-chloro-3-methylphenol
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	1	1.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	1	0.5	2	2
ISQG - DGV				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**	**Matrix**																
SE258533	**CS-1-S**	**12 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**CS-2-S**	**14 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**CS-3-S**	**14 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**CS-4-S**	**14 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**CS-5-S**	**14 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**CS-6-S**	**14 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**CS-7-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**CS-8-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**CS-9-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**CS-10-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**CS-11-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**CS-12-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**DS1-S**	**14 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**DS2-S**	**14 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**DS3-S**	**14 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**DS4-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**DS5-S**	**14 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**DS6-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**DS7-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**DS8-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**DS9-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**DS10-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**QC9**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2
SE258533	**QC11**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2

NOTES:
* criteria adopted from USEPA RSLs for residential soil THQ=1.0

TABLE 3: Laboratory Analysis Results - Sediment
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				PAHs																				
				2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo (a) pyrene	Benzo (b+j) fluoranthene	Benzo (e) pyrene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Coronene	Dibenz (ah) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Perylene	Phenanthrene	Pyrene	Total PAH
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.1
ISQG - DGV				-	-	-	-	-	-	-	-	-	-	-	-	-	2,400 *	-	-	-	-	-	-	10000.0
Lab Report Number	**Field ID**	**Date**	**Matrix**																					
SE258533	**CS-1-S**	**12 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**CS-2-S**	**14 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**CS-3-S**	**14 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**CS-4-S**	**14 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**CS-5-S**	**14 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**CS-6-S**	**14 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**CS-7-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**CS-8-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**CS-9-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**CS-10-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**CS-11-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**CS-12-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**DS1-S**	**14 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**DS2-S**	**14 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**DS3-S**	**14 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**DS4-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**DS5-S**	**14 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**DS6-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**DS7-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**DS8-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**DS9-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**DS10-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.007**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**QC9**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533	**QC11**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1

NOTES:
* criteria adopted from USEPA RSLs for residential soil THQ=1.0

TABLE 3: Laboratory Analysis Results - Sediment
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				OCP																			
				4,4-DDD	4,4-DDE	4,4-DDT	Aldrin	alpha-BHC	beta-BHC	alpha-Chlordane	gamma-Chlordane	Chlordane (alpha + gamma)	delta-BHC	Dieldrin	Endosulfan 1	Endosulfan 2	Endosulfan Sulphate	Endrin	gamma-BHC	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Total OC Pesticides
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
ISQG - DGV				3.500	1.400	1.200	-	-	-	-	-	4.500	-	2.800	-	-	-	2.700	0.900	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**	**Matrix**																					
SE258533	**CS-1-S**	**12 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**CS-2-S**	**14 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**CS-3-S**	**14 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**CS-4-S**	**14 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**CS-5-S**	**14 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**CS-6-S**	**14 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**CS-7-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**CS-8-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**CS-9-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**CS-10-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**CS-11-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**CS-12-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**DS1-S**	**14 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**DS2-S**	**14 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**DS3-S**	**14 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**DS4-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**DS5-S**	**14 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**DS6-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**DS7-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**DS8-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**DS9-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**DS10-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**QC9**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533	**QC11**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

NOTES:
* criteria adopted from USEPA RSLs for residential soil THQ=1.0

TABLE 3: Laboratory Analysis Results - Sediment
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

												PCBs													
	Chlorpyrifos	Dimethoate	Disulfoton	Famphur	Methyl parathion	O,O,O-Triethylphosphorothioate	Phorate	Stirofos	Sulfotepp	Thionazin	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Arochlor 1262	Arochlor 1268	Total PCBs	Azinphos-methyl	Diazinon	Bromophos ethyl
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01
ISQG - DGV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lab Report Number	Field ID	Date	Matrix																						
SE258533	CS-1-S	12 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	CS-2-S	14 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	CS-3-S	14 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	CS-4-S	14 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	CS-5-S	14 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	CS-6-S	14 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	CS-7-S	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	CS-8-S	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	CS-9-S	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	CS-10-S	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	CS-11-S	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	CS-12-S	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	DS1-S	14 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	DS2-S	14 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	DS3-S	14 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	DS4-S	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	DS5-S	14 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	DS6-S	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	DS7-S	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	DS8-S	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	DS9-S	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	DS10-S	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	QC9	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533	QC11	15 Dec 2023	Sediment	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01

NOTES:
* criteria adopted from USEPA RSLs for residential soil THQ=1.0

TABLE 4: Laboratory Analysis Results - Surface Waters
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				Metals								BTEX							
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				0.001	0.0001	0.001	0.001	0.001	0.0001	0.001	0.005	0.0005	0.5	0.5	0.5	1	0.5	1.5	3
ADWG 2022 Aesthetic				-	-	-	1	-	-	-	3	-	-	25	3	-	-	20	-
ADWG 2022 Health				0.01	0.002	-	2	0.01	0.001	0.02	-	-	1	800	300	-	-	600	-
ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)				-	0.0002	-	0.0014	0.0034	0.0006	0.011	0.008	0.016	950	180	80	-	350	-	-
ANZECC 2000 Irrigation Long Term Trigger Values				0.1	0.01	0.1	0.2	2	0.002	0.2	2	-	-	-	-	-	-	-	-
ANZECC 2000 Irrigation Short Term Trigger Values				2	0.05	1	5	5	0.002	2	5	-	-	-	-	-	-	-	-
ANZECC 2000 Recreational water quality and aesthetics				0.05	0.005	0.05	1	0.05	0.001	0.1	5	-	10	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand				-	-	-	-	-	-	-	-	-	800	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**	**Matrix Type**																
SE258531	**CS1**	**12 Nov 2023**	**Water**	<0.001	<0.0001	<0.001	**0.001**	<0.001	<0.0001	**0.002**	<0.005	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**CS3**	**14 Dec 2023**	**Water**	**0.001**	<0.0001	<0.001	<0.001	<0.001	<0.0001	**0.001**	<0.005	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**CS5**	**14 Dec 2023**	**Water**	**0.001**	<0.0001	<0.001	<0.001	<0.001	<0.0001	**0.002**	<0.005	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**CS6**	**14 Dec 2023**	**Water**	<0.001	<0.0001	<0.001	**0.003**	<0.001	<0.0001	<0.001	**0.006**	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**CS7**	**15 Dec 2023**	**Water**	**0.001**	<0.0001	<0.001	**0.002**	<0.001	<0.0001	**0.002**	<0.005	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**CS8**	**15 Dec 2023**	**Water**	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.0001	<0.001	**0.015**	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**CS11**	**15 Dec 2023**	**Water**	<0.001	<0.0001	<0.001	**0.001**	<0.001	<0.0001	**0.001**	<0.005	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**CS12**	**15 Dec 2023**	**Water**	<0.001	<0.0001	<0.001	**0.002**	<0.001	<0.0001	<0.001	<0.005	<0.0005	<0.5	**0.6**	<0.5	<1	<0.5	<1.5	<3
SE258531	**DS1**	**15 Dec 2023**	**Water**	<0.001	<0.0001	<0.001	**0.002**	<0.001	<0.0001	<0.001	**0.005**	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**DS2**	**15 Dec 2023**	**Water**	<0.001	<0.0001	<0.001	**0.001**	<0.001	<0.0001	**0.003**	**0.035**	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**DS3**	**15 Dec 2023**	**Water**	**0.002**	<0.0001	**0.001**	**0.021**	<0.001	<0.0001	**0.002**	**0.011**	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**DS4**	**15 Dec 2023**	**Water**	**0.001**	<0.0001	<0.001	**0.002**	<0.001	<0.0001	**0.002**	**0.016**	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**DS5**	**15 Dec 2023**	**Water**	<0.001	<0.0001	<0.001	**0.001**	<0.001	<0.0001	<0.001	<0.005	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**DS6**	**15 Dec 2023**	**Water**	<0.001	<0.0001	<0.001	**0.001**	<0.001	<0.0001	<0.001	<0.005	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**DS7**	**15 Dec 2023**	**Water**	<0.001	<0.0001	<0.001	**0.001**	<0.001	<0.0001	<0.001	**0.017**	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**DS8**	**15 Dec 2023**	**Water**	<0.001	<0.0001	<0.001	**0.001**	<0.001	<0.0001	<0.001	**0.018**	<0.0005	<0.5	**15**	<0.5	<1	<0.5	<1.5	**15**
SE258531	**DS9**	**15 Dec 2023**	**Water**	<0.001	<0.0001	<0.001	**0.002**	<0.001	<0.0001	**0.002**	**0.02**	<0.0005	<0.5	**9.7**	<0.5	<1	<0.5	<1.5	**10**
SE258531	**DS10**	**15 Dec 2023**	**Water**	<0.001	<0.0001	<0.001	**0.002**	<0.001	<0.0001	**0.001**	**0.016**	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**QC1**	**15 Dec 2023**	**Water**	**0.001**	<0.0001	<0.001	**0.002**	<0.001	<0.0001	**0.002**	**0.017**	<0.0005	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE258531	**QC3**	**15 Dec 2023**	**Water**	**0.001**	<0.0001	<0.001	**0.002**	<0.001	<0.0001	**0.002**	**0.006**	<0.0005	<0.5	**14**	<0.5	<1	<0.5	<1.5	**14**

NOTES:
Cells containing '-' have no available results for that CoPC
[a] criteria for cresol adopted from Environment and Climate Change Canada, Health Canada, May 2016
(a) criteria adopted from USEPA RSLs for residential soil THQ=1.0 for ingestion

TABLE 4: Laboratory Analysis Results - Surface Waters
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				TRH							TPH					PAH																		
				C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	C37-C40 Fraction	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	DiBenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				50	50	60	60	500	500	320	200	40	50	200	200	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1
ADWG 2022 Aesthetic				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADWG 2022 Health				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	2.5 (a)	-	-	-	-	-	-	-	-	-	-	-
ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	0.2	-	-	-	-	-	1.4	-	-	16	2	-	-
ANZECC 2000 Irrigation Long Term Trigger Values				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Irrigation Short Term Trigger Values				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Recreational water quality and aesthetics				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand				-	1,000	-	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**	**Matrix Type**																															
SE258531	**CS1**	**12 Nov 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**CS3**	**14 Dec 2023**	**Water**	<50	<50	**67**	**67**	<500	<500	**410**	<200	<40	<50	**350**	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**CS5**	**14 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**CS6**	**14 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**CS7**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**CS8**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**CS11**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1	<0.1	**0.1**	<0.1	<1
SE258531	**CS12**	**15 Dec 2023**	**Water**	<50	<50	**210**	**210**	<500	<500	**750**	<200	<40	**190**	**380**	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**DS1**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	**510**	<500	**620**	<200	<40	<50	**380**	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**DS2**	**15 Dec 2023**	**Water**	<50	<50	**97**	**97**	<500	<500	**560**	<200	<40	**66**	**350**	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**DS3**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	**2.0**	**0.1**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<1
SE258531	**DS4**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**DS5**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**DS6**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**DS7**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**DS8**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**DS9**	**15 Dec 2023**	**Water**	<50	<50	-	-	-	-	-	-	<40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE258531	**DS10**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	**1.0**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1	<0.1	<1
SE258531	**QC1**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
SE258531	**QC3**	**15 Dec 2023**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1

NOTES:
Cells containing '-' have no available results for that CoPC
[a] criteria for cresol adopted from Environment and Climate Change Canad
(a) criteria adopted from USEPA RSLs for residential soil THQ=1.0 for inges

TABLE 4: Laboratory Analysis Results - Surface Waters
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				Phenols														Organochlorine Pesticides															
				3&4-Methylphenol (m&p-cresol)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2,3,4,6 & 2,3,5,6-Tetrachlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Phenol	Organochlorine pesticides EPAVic	2,4-DDT	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (technical)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde
				µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				1	0.5	0.5	0.5	0.5	0.002	0.5	0.001	0.5	0.5	0.5	2	1	1.5	0.5	0.5	1	0.1	0.1	0.1	0.1	0.1	0.1	0.0001	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
ADWG 2022 Aesthetic				-	-	2	0.3	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADWG 2022 Health				-	-	20	200	-	-	-	-	300	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-
ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)				-	-	20	160	-	0.045	-	-	490	-	-	-	-	1,500 (b)	10	320	-	-	-	-	-	-	-	-	-	0.01	-	-	-	-	0.02	-
ANZECC 2000 Irrigation Long Term Trigger Values				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Irrigation Short Term Trigger Values				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Recreational water quality and aesthetics				-	1	10	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	1	-	-	-	-	-	3	1	-	-	-	1	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**	**Matrix Type**																																
SE258531	**CS1**	**12 Nov 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**CS3**	**14 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**CS5**	**14 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**CS6**	**14 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**CS7**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	**0.5**	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**CS8**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**CS11**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**CS12**	**15 Dec 2023**	**Water**	**31**	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	**31**	<0.5	**7.9**	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**DS1**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**DS2**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**DS3**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**DS4**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**DS5**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**DS6**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**DS7**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**DS8**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**DS9**	**15 Dec 2023**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE258531	**DS10**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**QC1**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**QC3**	**15 Dec 2023**	**Water**	**3**	<0.5	<0.5	<0.5	<0.5	<0.002	<0.5	<0.001	<0.5	<0.5	<0.5	<2	<1	**3.4**	<0.5	**0.6**	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

NOTES:
Cells containing '-' have no available results for that CoPC
[a] criteria for cresol adopted from Environment and Climate Change Canad
(a) criteria adopted from USEPA RSLs for residential soil THQ=1.0 for inges

TABLE 4: Laboratory Analysis Results - Surface Waters
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

	Organochlorine Pesticides											Organophosphorous Pesticides										PCBs													
	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Isodrin	Methoxychlor	Mirex	o,p-DDD	o,p'-DDE	trans-Nonachlor	Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Methidathion	Parathion	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Arochlor 1268	Arocior 1262	PCBs (Sum of total)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L
EQL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0001	0.0001	0.0001	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.5	0.2	1	1	1	1	1	1	1	0.001	1	5
ADWG 2022 Aesthetic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADWG 2022 Health	-	10	0.3	-	-	-	-	-	-	-	-	30	10	10	4	5	7	4	7	70	6	20	-	-	-	-	-	-	-	-	-	-	-
ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)	-	0.2	0.09	-	0.1	-	-	-	-	-	-	0.02	-	0.01	0.01	-	0.15	-	0.2	0.05	-	0.004	-	-	-	0.6	-	0.03	-	-	-	-
ANZECC 2000 Irrigation Long Term Trigger Values	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Irrigation Short Term Trigger Values	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Recreational water quality and aesthetics	-	10	3	-	-	-	-	-	-	-	-	10	20	2	10	20	100	6	20	100	60	30	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**	**Matrix Type**																																
SE258531	**CS1**	**12 Nov 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**CS3**	**14 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**CS5**	**14 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**CS6**	**14 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**CS7**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**CS8**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**CS11**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**CS12**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**DS1**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**DS2**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**DS3**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**DS4**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**DS5**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**DS6**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**DS7**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**DS8**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**DS9**	**15 Dec 2023**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE258531	**DS10**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**QC1**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5
SE258531	**QC3**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0001	<0.0001	<0.0001	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<0.001	<1	<5

NOTES:
Cells containing '-' have no available results for that CoPC
[a] criteria for cresol adopted from Environment and Climate Change Canad
(a) criteria adopted from USEPA RSLs for residential soil THQ=1.0 for inges

TABLE 5: Laboratory Analysis Results - Groundwater
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

	Metals								BTEX							
	Arsenic (filtered)	Cadmium (filtered)	Chromium (III+VI) (filtered)	Copper (filtered)	Lead (filtered)	Mercury (filtered)	Nickel (filtered)	Zinc (filtered)	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	0.1	1	1	1	0.1	1	5	0.5	0.5	0.5	0.5	1	0.5	1.5	3
ADWG 2022 Aesthetic	-	-	-	1,000	-	-	-	3,000	-	-	25	3	-	-	20	-
ADWG 2022 Health	10	2	-	2,000	10	1	20	-	-	1	800	300	-	-	600	-
ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)	-	0.2	-	1.4	3.4	0.6	11	8	16	950	180	80	-	350	-	-
ANZECC 2000 Irrigation Short Term Trigger Values	2,000	50	1,000	5,000	5,000	2	2,000	5,000	-	-	-	-	-	-	-	-
ANZECC 2000 Livestock DW Low Risk Trigger Values	500	10	1,000	400	100	2	1,000	20,000	-	-	-	-	-	-	-	-
ANZECC 2000 Recreational water quality and aesthetics	50	5	50	1,000	50	1	100	5,000	-	10	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																
>=2m, <4m	-	-	-	-	-	-	-	-	-	800	-	-	-	-	-	-
>=4m, <8m	-	-	-	-	-	-	-	-	-	800	-	-	-	-	-	-
>=8m	-	-	-	-	-	-	-	-	-	900	-	-	-	-	-	-

Lab Report Number	Field ID	Date	Matrix Type															
SE259897	**GW1**	**29 Jan 2024**	**Water**	<1	<0.1	<1	<1	<1	<0.1	**9**	**44**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE259897	**GW2**	**29 Jan 2024**	**Water**	<1	<0.1	<1	<1	<1	<0.1	**11**	**63**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE259897	**GW3**	**29 Jan 2024**	**Water**	<1	**1.3**	<1	<1	<1	<0.1	**6**	**11**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE259897	**GW4**	**29 Jan 2024**	**Water**	<1	<0.1	<1	<1	<1	<0.1	**10**	**34**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE259897	**GW5**	**29 Jan 2024**	**Water**	<1	<0.1	<1	<1	<1	**0.1**	**110**	<5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE259897	**GW6**	**29 Jan 2024**	**Water**	<1	<0.1	<1	<1	<1	**0.1**	**28**	<5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE259897	**GW7**	**29 Jan 2024**	**Water**	**2**	<0.1	<1	<1	<1	<0.1	**26**	**10**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE259897	**GW8**	**29 Jan 2024**	**Water**	<1	<0.1	<1	<1	<1	<0.1	**8**	**67**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE259897	**QC1**	**29 Jan 2024**	**Water**	<1	<0.1	<1	<1	<1	<0.1	**11**	**63**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3
SE259897	**TB**	**29 Jan 2024**	**Water**	<1	<0.1	<1	<1	<1	<0.1	<1	<5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3

Environmental Standards
NHMRC, September 2022, ADWG 2022 Aesthetic
NHMRC, May 2022, ADWG 2022 Health
ANZG, July 2023, ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)
DoE, 2000, ANZECC 2000 Irrigation Short Term Trigger Values
DoE, 2000, ANZECC 2000 Livestock DW Low Risk Trigger Values
DoE, 2000, ANZECC 2000 Recreational water quality and aesthetics
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand

TABLE 5: Laboratory Analysis Results - Groundwater
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

	TRH							TPH					Silica Gel Cleanup								
	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	C37-C40 Fraction	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	TRH C10-C14-Silica	TRH C15-C28-Silica	TRH C29-C36-Silica	TRH C37-C40-Silica	TRH >C10-C16-Silica	TRH >C10-C16-Silica minus Naphthalene (F2)	TRH >C16-C34-Silica (F3)	TRH >C34-C40-Silica (F4)	TRH C10-C36-Silica
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	50	50	60	60	500	500	320	200	40	50	200	200	50	200	200	200	60	500	500	225	320
ADWG 2022 Aesthetic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADWG 2022 Health	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Irrigation Short Term Trigger Values	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Livestock DW Low Risk Trigger Values	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Recreational water quality and aesthetics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																					
>=2m, <4m	-	1,000	-	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m, <8m	-	1,000	-	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=8m	-	1,000	-	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lab Report Number	Field ID	Date	Matrix Type																			
SE259897	**GW1**	**29 Jan 2024**	**Water**	<50	<50	**190**	**190**	<500	<500	<320	<200	<40	**180**	<200	<200	-	-	-	-	-	-	-	-	-
SE259897	**GW2**	**29 Jan 2024**	**Water**	<50	<50	**390**	**390**	<500	<500	**750**	<200	<40	**370**	<200	**210**	<50	<200	<200	<200	<60	<500	<500	<225	<320
SE259897	**GW3**	**29 Jan 2024**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	-	-	-	-	-	-	-	-	-
SE259897	**GW4**	**29 Jan 2024**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	-	-	-	-	-	-	-	-	-
SE259897	**GW5**	**29 Jan 2024**	**Water**	<50	<50	**340**	**340**	<500	<500	**550**	<200	<40	**320**	<200	<200	-	-	-	-	-	-	-	-	-
SE259897	**GW6**	**29 Jan 2024**	**Water**	<50	<50	**250**	**250**	<500	<500	**370**	<200	<40	**240**	<200	<200	-	-	-	-	-	-	-	-	-
SE259897	**GW7**	**29 Jan 2024**	**Water**	<50	<50	**570**	**570**	**1,800**	<500	**2,600**	<200	<40	**530**	**1,300**	**660**	<50	<200	<200	<200	<60	<500	<500	<225	<320
SE259897	**GW8**	**29 Jan 2024**	**Water**	<50	<50	**100**	**100**	<500	<500	<320	<200	<40	**95**	<200	<200	-	-	-	-	-	-	-	-	-
SE259897	**QC1**	**29 Jan 2024**	**Water**	<50	<50	**370**	**370**	<500	<500	**670**	<200	<40	**360**	<200	<200	-	-	-	-	-	-	-	-	-
SE259897	**TB**	**29 Jan 2024**	**Water**	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	-	-	-	-	-	-	-	-	-

Environmental Standards
NHMRC, September 2022, ADWG 2022 Aesthetic
NHMRC, May 2022, ADWG 2022 Health
ANZG, July 2023, ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)
DoE, 2000, ANZECC 2000 Irrigation Short Term Trigger Values
DoE, 2000, ANZECC 2000 Livestock DW Low Risk Trigger Values
DoE, 2000, ANZECC 2000 Recreational water quality and aesthetics
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sanc

TABLE 5: Laboratory Analysis Results - Groundwater
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

	PAH																			Organochlorine Pesticides									
	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Organochlorine pesticides EPAVic	2,4-DDT	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (technical)	d-BHC	DDD
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L
EQL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
ADWG 2022 Aesthetic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADWG 2022 Health	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)	-	-	-	-	0.4	-	0.2	-	-	-	-	-	1.4	-	-	16	2	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Irrigation Short Term Trigger Values	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Livestock DW Low Risk Trigger Values	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Recreational water quality and aesthetics	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																													
>=2m, <4m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m, <8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lab Report Number	Field ID	Date	Matrix Type																												
SE259897	GW1	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW2	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW3	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW4	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW5	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW6	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW7	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW8	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	QC1	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	TB	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Environmental Standards
NHMRC, September 2022, ADWG 2022 Aesthetic
NHMRC, May 2022, ADWG 2022 Health
ANZG, July 2023, ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)
DoE, 2000, ANZECC 2000 Irrigation Short Term Trigger Values
DoE, 2000, ANZECC 2000 Livestock DW Low Risk Trigger Values
DoE, 2000, ANZECC 2000 Recreational water quality and aesthetics
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sanc

TABLE 5: Laboratory Analysis Results - Groundwater
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

	Organochlorine Pesticides																		
	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Isodrin	Methoxychlor	Mirex	o,p-DDD	o,p'-DDE	trans-Nonachlor
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	ug/L	ug/L
EQL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
ADWG 2022 Aesthetic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADWG 2022 Health	9	-	-	-	-	-	-	-	10	0.3	-	-	-	-	-	-	-	-
ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)	0.01	-	-	-	-	0.02	-	-	0.2	0.09	-	0.1	-	-	-	-	-	-
ANZECC 2000 Irrigation Short Term Trigger Values	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Livestock DW Low Risk Trigger Values	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Recreational water quality and aesthetics	3	1	-	-	-	1	-	-	10	3	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																		
>=2m, <4m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m, <8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lab Report Number	Field ID	Date	Matrix Type																	
SE259897	GW1	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW2	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW3	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW4	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW5	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW6	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW7	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	GW8	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	QC1	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	TB	29 Jan 2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Environmental Standards
NHMRC, September 2022, ADWG 2022 Aesthetic
NHMRC, May 2022, ADWG 2022 Health
ANZG, July 2023, ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)
DoE, 2000, ANZECC 2000 Irrigation Short Term Trigger Values
DoE, 2000, ANZECC 2000 Livestock DW Low Risk Trigger Values
DoE, 2000, ANZECC 2000 Recreational water quality and aesthetics
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sanc

TABLE 5: Laboratory Analysis Results - Groundwater
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

	Organophosphorous Pesticides											PCBs									
	Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Methidathion	Parathion	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Arochlor 1268	Aroclor 1262	PCBs (Sum of total)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L
EQL	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.5	0.2	1	1	1	1	1	1	1	1	1	5
ADWG 2022 Aesthetic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADWG 2022 Health	30	10	10	4	5	7	4	7	70	6	20	-	-	-	-	-	-	-	-	-	-
ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)	0.02	-	0.01	0.01	-	0.15	-	0.2	0.05	-	0.004	-	-	-	0.6	-	0.03	-	-	-	-
ANZECC 2000 Irrigation Short Term Trigger Values	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Livestock DW Low Risk Trigger Values	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Recreational water quality and aesthetics	10	20	2	10	20	100	6	20	100	60	30	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																					
>=2m, <4m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m, <8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Lab Report Number	Field ID	Date	Matrix Type																			
SE259897	**GW1**	**29 Jan 2024**	**Water**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
SE259897	**GW2**	**29 Jan 2024**	**Water**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
SE259897	**GW3**	**29 Jan 2024**	**Water**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
SE259897	**GW4**	**29 Jan 2024**	**Water**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
SE259897	**GW5**	**29 Jan 2024**	**Water**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
SE259897	**GW6**	**29 Jan 2024**	**Water**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
SE259897	**GW7**	**29 Jan 2024**	**Water**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
SE259897	**GW8**	**29 Jan 2024**	**Water**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
SE259897	**QC1**	**29 Jan 2024**	**Water**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
SE259897	**TB**	**29 Jan 2024**	**Water**	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5

Environmental Standards
NHMRC, September 2022, ADWG 2022 Aesthetic
NHMRC, May 2022, ADWG 2022 Health
ANZG, July 2023, ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)
DoE, 2000, ANZECC 2000 Irrigation Short Term Trigger Values
DoE, 2000, ANZECC 2000 Livestock DW Low Risk Trigger Values
DoE, 2000, ANZECC 2000 Recreational water quality and aesthetics
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sanc

TABLE 5: Laboratory Analysis Results - Groundwater
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

	Phenols															
	3&4-Methylphenol (m&p-cresol)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2,3,4,6 & 2,3,5,6-Tetrachlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Phenol
	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L
EQL	1	0.5	0.5	0.5	0.5	2	0.5	1	0.5	0.5	0.5	2	1	1.5	0.5	0.5
ADWG 2022 Aesthetic	-	-	2	0.3	-	-	-	-	0.1	-	-	-	-	-	-	-
ADWG 2022 Health	-	-	20	200	-	-	-	-	300	-	-	-	-	-	10	-
ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)	-	-	20	160	-	45	-	-	490	-	-	-	-	-	10	320
ANZECC 2000 Irrigation Short Term Trigger Values	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Livestock DW Low Risk Trigger Values	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANZECC 2000 Recreational water quality and aesthetics	-	1	10	-	-	-	-	-	-	-	-	-	-	-	10	-
NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sand																
>=2m, <4m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=4m, <8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
>=8m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lab Report Number	**Field ID**	**Date**	**Matrix Type**													
SE259897	**GW1**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259897	**GW2**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259897	**GW3**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259897	**GW4**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259897	**GW5**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259897	**GW6**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259897	**GW7**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259897	**GW8**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259897	**QC1**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259897	**TB**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5

Environmental Standards
NHMRC, September 2022, ADWG 2022 Aesthetic
NHMRC, May 2022, ADWG 2022 Health
ANZG, July 2023, ANZG Freshwater Toxicant DGVs LOSP 95% (July 2023)
DoE, 2000, ANZECC 2000 Irrigation Short Term Trigger Values
DoE, 2000, ANZECC 2000 Livestock DW Low Risk Trigger Values
DoE, 2000, ANZECC 2000 Recreational water quality and aesthetics
2013, NEPM 2013 Table 1A(4) Res HSL A & B GW for Vapour Intrusion, Sanc

TABLE 6: QAQC Results -Soil
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

					Metals								BTEX								TRH							TPH					
					Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	C37-C40 Fraction	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					1	0.3	0.5	0.5	1	0.05	0.5	1	0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.6	25	25	25	25	90	100	50	100	20	20	45	45	50
Lab Report Number	**Field ID**	**Date**	**Matrix Type**																														
SE258534	**BH20 0.0-0.1**	**12 Dec 2023**	**Soil**	**7**	<0.3	**11**	**6.0**	**20**	<0.05	**5.9**	**26**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	**39**	**39**	**430**	**120**	**590**	<100	<20	<20	**210**	**320**	**530**
SE258536	**QC1**	**12 Dec 2023**	**Soil**	**4**	<0.3	**7.0**	**7.6**	**12**	<0.05	**5.0**	**23**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	**250**	<120	**250**	<100	<20	<20	**140**	**160**	**300**
RPD				55	0	44	24	50	0	17	12	0	0	0	0	0	0	0	0	0	0	44	44	53	0	81	0	0	0	40	67	55
SE258534	**BH20 0.0-0.1**	**12 Dec 2023**	**Soil**	**7**	<0.3	**11**	**6.0**	**20**	<0.05	**5.9**	**26**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	**39**	**39**	**430**	**120**	**590**	<100	<20	<20	**210**	**320**	**530**
340788	**QC2**	**12 Dec 2023**	**Soil**	**6**	<0.4	**9**	**8**	**14**	<0.1	**7**	**26**	<1	<0.2	<0.5	<1	<2	<1	<1	-	<25	<25	<50	<50	<100	<100	<50	-	<25	<50	<100	<100	<50
RPD				15	0	20	29	35	0	17	0	0	0	0	0	0	0	0	0	-	0	0	0	0	125	18	169	-	0	0	71	105	166
SE258536	**BH40 0.0-0.1**	**13 Dec 2023**	**Soil**	**8**	<0.3	**63**	**68**	**9**	<0.05	**60**	**170**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	**170**	<120	<210	<100	<20	<20	**93**	**93**	**190**
SE258536	**QC3**	**13 Dec 2023**	**Soil**	**8**	<0.3	**91**	**67**	**7**	<0.05	**61**	**150**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	**110**	<120	<210	<100	<20	<20	**58**	**73**	**130**
RPD				0	0	36	1	25	0	2	12	0	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	46	24	38
SE258536	**BH40 0.0-0.1**	**13 Dec 2023**	**Soil**	**8**	<0.3	**63**	**68**	**9**	<0.05	**60**	**170**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	**170**	<120	<210	<100	<20	<20	**93**	**93**	**190**
340788	**QC4**	**13 Dec 2023**	**Soil**	**8**	<0.4	**58**	**70**	**10**	<0.1	**63**	**140**	<1	<0.2	<0.5	<1	<2	<1	<1	-	<25	<25	<50	<50	<100	<100	<50	-	<25	<50	<100	<100	<50
RPD				0	0	8	3	11	0	5	19	0	0	0	0	0	0	0	-	0	0	0	0	52	0	0	-	0	0	0	0	117
SE258536	**BH60 0.0-0.1**	**14 Dec 2023**	**Soil**	**4**	<0.3	**12**	**17**	**10**	<0.05	**14**	**43**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	**120**	<120	<210	<100	<20	<20	**48**	**83**	**130**
SE258536	**QC5**	**14 Dec 2023**	**Soil**	**4**	<0.3	**14**	**23**	**10**	<0.05	**16**	**49**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	**59**	<110
RPD				0	0	15	30	0	0	13	13	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	6	34	17
SE258536	**BH60 0.0-0.1**	**14 Dec 2023**	**Soil**	**4**	<0.3	**12**	**17**	**10**	<0.05	**14**	**43**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	**120**	<120	<210	<100	<20	<20	**48**	**83**	**130**
340788	**QC6**	**14 Dec 2023**	**Soil**	**4**	<0.4	**15**	**22**	**11**	<0.1	**17**	**45**	<1	<0.2	<0.5	<1	<2	<1	<1	-	<25	<25	<50	<50	<100	<100	<50	-	<25	<50	<100	<100	<50
RPD				0	0	22	26	10	0	19	5	0	0	0	0	0	0	0	-	0	0	0	0	18	0	0	-	0	0	0	0	89
SE258536	**BH77 0.0-0.1**	**14 Dec 2023**	**Soil**	**3**	<0.3	**8.1**	**11**	**8**	<0.05	**2.9**	**8.3**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	**230**	<120	**230**	<100	<20	<20	**100**	**160**	**260**
SE258536	**QC7**	**14 Dec 2023**	**Soil**	**2**	<0.3	**8.0**	**12**	**7**	<0.05	**3.0**	**8.2**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	**200**	<120	<210	<100	<20	<20	**97**	**140**	**230**
RPD				40	0	1	9	13	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	14	0	9	0	0	0	3	13	12
SE259505	**LC19 0.0-0.1**	**18 Jan 2024**	**Soil**	**4**	<0.3	**8.2**	**12**	**9**	<0.05	**7.2**	**26**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110
SE259505	**QC1**	**18 Jan 2024**	**Soil**	**4**	<0.3	**10**	**14**	**10**	<0.05	**7.9**	**27**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110
RPD				0	0	20	15	11	0	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE259505	**LC19 0.0-0.1**	**18 Jan 2024**	**Soil**	**4**	<0.3	**8.2**	**12**	**9**	<0.05	**7.2**	**26**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110
342165	**QC2**	**18 Jan 2024**	**Soil**	**8**	<0.4	**15**	**17**	**8**	<0.1	**9**	**21**	<1	<0.2	<0.5	<1	<2	<1	<1	-	<25	<25	<50	<50	<100	<100	<50	-	<25	<50	<100	<100	<50
RPD				67	0	59	34	12	0	22	21	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	-	0	0	0	0	0
SE259505	**LC24 0.0-0.1**	**19 Jan 2024**	**Soil**	**4**	<0.3	**27**	**24**	**9**	<0.05	**6.2**	**20**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110
SE259505	**QC3**	**19 Jan 2024**	**Soil**	**7**	<0.3	**34**	**28**	**10**	<0.05	**7.0**	**25**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110
RPD				55	0	23	15	11	0	12	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE259505	**LC24 0.0-0.1**	**19 Jan 2024**	**Soil**	**4**	<0.3	**27**	**24**	**9**	<0.05	**6.2**	**20**	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6	<25	<25	<25	<25	<90	<120	<210	<100	<20	<20	<45	<45	<110
342165	**QC4**	**19 Jan 2024**	**Soil**	**7**	<0.4	**27**	**23**	**13**	<0.1	**6**	**36**	<1	<0.2	<0.5	<1	<2	<1	<1	-	<25	<25	<50	<50	<100	<100	<50	-	<25	<50	<100	<100	<50
RPD				55	0	0	4	36	0	3	57	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	-	0	0	0	0	0

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 30 (10 - 30 x EQL); 30 (30 - 80 x EQL); 30 (> 80 x EQL))**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

TABLE 6: QAQC Results -Soil
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

					PAH																								
					Benzo(b+j+k)fluoranthene	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Zero)	PAHs (Sum of total)	PAHs (Sum of positives)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL					0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.8	0.05
Lab Report Number	**Field ID**	**Date**	**Matrix Type**																										
SE258534	**BH20 0.0-0.1**	**12 Dec 2023**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**QC1**	**12 Dec 2023**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
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
SE258534	**BH20 0.0-0.1**	**12 Dec 2023**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
340788	**QC2**	**12 Dec 2023**	**Soil**	<0.2	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	-	<0.05
RPD				-	-	-	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	0
SE258536	**BH40 0.0-0.1**	**13 Dec 2023**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**QC3**	**13 Dec 2023**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
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
SE258536	**BH40 0.0-0.1**	**13 Dec 2023**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
340788	**QC4**	**13 Dec 2023**	**Soil**	<0.2	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	-	<0.05
RPD				-	-	-	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	0
SE258536	**BH60 0.0-0.1**	**14 Dec 2023**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**QC5**	**14 Dec 2023**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
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
SE258536	**BH60 0.0-0.1**	**14 Dec 2023**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
340788	**QC6**	**14 Dec 2023**	**Soil**	<0.2	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	-	<0.05
RPD				-	-	-	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	0
SE258536	**BH77 0.0-0.1**	**14 Dec 2023**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE258536	**QC7**	**14 Dec 2023**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
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
SE259505	**LC19 0.0-0.1**	**18 Jan 2024**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE259505	**QC1**	**18 Jan 2024**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
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
SE259505	**LC19 0.0-0.1**	**18 Jan 2024**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
342165	**QC2**	**18 Jan 2024**	**Soil**	<0.2	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	-	<0.05
RPD				-	-	-	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	0
SE259505	**LC24 0.0-0.1**	**19 Jan 2024**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
SE259505	**QC3**	**19 Jan 2024**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
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
SE259505	**LC24 0.0-0.1**	**19 Jan 2024**	**Soil**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.2	<0.8	<0.8
342165	**QC4**	**19 Jan 2024**	**Soil**	<0.2	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	-	<0.1	-	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	-	**0.2**
RPD				-	-	-	0	0	0	0	0	0	-	0	-	67	0	0	0	0	0	0	0	0	0	0	-	0

***RPDs have only been considered where a concentration is greate**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acc**
*****Interlab Duplicates are matched on a per compound basis as m**

TABLE 7: QAQC Results -Sediment
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				Metals								BTEX						
				Arsenic, As	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury	Nickel, Ni	Zinc, Zn	Benzene	Toluene	Ethylbenzene	m/p-xylene	o-xylene	Total Xylenes	Total BTEX
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				1	0.3	0.5	0.5	1	0.05	0.5	2	0.1	0.1	0.1	0.2	0.1	0.3	0.6
Sample Name	**Field ID**	**Date**	**Matrix**															
SE258533.009	**CS-9-S**	**15 Dec 2023**	**Sediment**	**8**	<0.3	**29**	**27**	**13**	<0.05	**15**	**44**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533.023	**QC9**	**15 Dec 2023**	**Sediment**	**3**	<0.3	**25**	**20**	**12**	<0.05	**12**	**38**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
RPD				**3**	0	**15**	**30**	**8**	0	**22**	**15**	0	0	0	0	0	0	0
SE258533.010	**CS-10-S**	**15 Dec 2023**	**Sediment**	**5**	<0.3	**40**	**44**	**5**	**0.05**	**23**	**56**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
SE258533.024	**QC11**	**15 Dec 2023**	**Sediment**	**2**	<0.3	**33**	**38**	**5**	**0.06**	**22**	**54**	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.6
RPD				**86**	0	**19**	**15**	**0**	**18**	**4**	**4**	0	0	0	0	0	0	0

TABLE 7: QAQC Results -Sediment
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				TRH															
				Naphthalene (VOC)	TRH C6-C9	Benzene (F0)	TRH C6-C10	TRH C6-C10 minus BTEX (F1)	TRH C10-C14	TRH C10-C36	TRH C15-C28	TRH C29-C36	TRH C37-C40	TRH >C10-C16	TRH >C10-C16 - Naphthalene (F2)	TRH >C16-C34 (F3)	TRH >C34-C40 (F4)	TRH C10-C36 Total	TRH >C10-C40 Total (F bands)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	20	0.1	25	25	20	110	45	45	100	25	25	90	120	110	210
Sample Name	**Field ID**	**Date**	**Matrix**																
SE258533.009	**CS-9-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	**72**	<100	<25	<25	**91**	<120	<110	<210
SE258533.023	**QC9**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	**71**	<100	<25	<25	**94**	<120	<110	<210
RPD				0	0	0	0	0	0	0	0	**1**	0	0	0	**3**	0	0	0
SE258533.010	**CS-10-S**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	<45	<45	<100	<25	<25	<90	<120	<110	<210
SE258533.024	**QC11**	**15 Dec 2023**	**Sediment**	<0.1	<20	<0.1	<25	<25	<20	<110	**46**	<45	<100	<25	<25	<90	<120	<110	<210
RPD				0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0

TABLE 7: QAQC Results -Sediment
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				PAHs																				
				2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo (a) pyrene	Benzo (b+j) fluoranthene	Benzo (e) pyrene	Benzo (ghi) perylene	Benzo (k) fluoranthene	Chrysene	Coronene	Dibenz (ah) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Perylene	Phenanthrene	Pyrene	Total PAH
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.1
Sample Name	**Field ID**	**Date**	**Matrix**																					
SE258533.009	**CS-9-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533.023	**QC9**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE258533.010	**CS-10-S**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
SE258533.024	**QC11**	**15 Dec 2023**	**Sediment**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 7: QAQC Results -Sediment
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				Phenols																				
				Phenol	2-methyl phenol (o-cresol)	3/4-methyl phenol (m/p-cresol)	Total Cresol	2-chlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2,4-dichlorophenol	2,4,6-trichlorophenol	2-nitrophenol	4-nitrophenol	2,4,5-trichlorophenol	2,3,4,6/2,3,5,6-tetrachlorophenol	Pentachlorophenol	2,4-dinitrophenol	4-chloro-3-methylphenol	4,4-DDD	4,4-DDE	4,4-DDT	Aldrin	alpha-BHC
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	1	1.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	1	0.5	2	2	0.001	0.001	0.001	0.001	0.001
Sample Name	**Field ID**	**Date**	**Matrix**																					
SE258533.009	**CS-9-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533.023	**QC9**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2	<0.001	<0.001	<0.001	<0.001	<0.001
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE258533.010	**CS-10-S**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533.024	**QC11**	**15 Dec 2023**	**Sediment**	<0.5	<0.5	<1	<1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<2	<2	<0.001	<0.001	<0.001	<0.001	<0.001
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 7: QAQC Results -Sediment
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				OCP															
				beta-BHC	alpha-Chlordane	gamma-Chlordane	Chlordane (alpha + gamma)	delta-BHC	Dieldrin	Endosulfan 1	Endosulfan 2	Endosulfan Sulphate	Endrin	gamma-BHC	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Total OC Pesticides
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Sample Name	**Field ID**	**Date**	**Matrix**																
SE258533.009	**CS-9-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533.023	**QC9**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE258533.010	**CS-10-S**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SE258533.024	**QC11**	**15 Dec 2023**	**Sediment**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 7: QAQC Results -Sediment
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				OPP										PCBs														
				Chlorpyrifos	Dimethoate	Disulfoton	Famphur	Methyl parathion	O,O,O-Triethylphosphorothioate	Phorate	Stirofos	Sulfotepp	Thionazin	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Arochlor 1262	Arochlor 1268	Total PCBs	Azinphos-methyl	Diazinon	Bromophos ethyl
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01
Sample Name	**Field ID**	**Date**	**Matrix**																							
SE258533.009	**CS-9-S**	**15 Dec 2023**	**Sediment**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533.023	**QC9**	**15 Dec 2023**	**Sediment**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE258533.010	**CS-10-S**	**15 Dec 2023**	**Sediment**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
SE258533.024	**QC11**	**15 Dec 2023**	**Sediment**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 8: QAQC Results - Water
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

										BTEX								TRH							TPH					
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	C37-C40 Fraction	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	0.1	1	1	1	0.05	1	1	0.5	0.5	0.5	0.5	1	0.5	1.5	3	10	10	50	50	100	100	50	200	10	50	100	100	50

Lab Report Number	Field ID	Date	Matrix Type																											
SE258531	DS4	15 Dec 2023	Water	1	<0.1	<1	2	<1	<0.1	2	16	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	-
SE258531	QC1	15 Dec 2023	Water	1	<0.1	<1	2	<1	<0.1	2	17	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	-
RPD				0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
SE258531	DS4	15 Dec 2023	Water	1	<0.1	<1	2	<1	<0.1	2	16	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	-
340788	QC2	15 Dec 2023	Water	2	<0.1	<1	2	<1	<0.05	3	4	<1	<1	<1	<1	<2	<1	-	-	<10	<10	<50	<50	<100	<100	<50	-	<10	<50	<100	<100	<50
RPD				67	0	0	0	0	-	-	-	0	0	0	0	0	0	-	-	0	0	0	0	0	0	0	-	0	0	0	0	-
SE258531	DS9	15 Dec 2023	Water	<1	<0.1	<1	2	<1	<0.1	2	20	<0.5	<0.5	9.7	<0.5	<1	<0.5	<1.5	10	<50	<50	-	-	-	-	-	-	<40	-	-	-	-
SE258531	QC3	15 Dec 2023	Water	1	<0.1	<1	2	<1	<0.1	2	6	<0.5	<0.5	14	<0.5	<1	<0.5	<1.5	14	<50	<50	<60	<60	<500	<500	<320	<200	<40	<50	<200	<200	-
RPD				0	0	0	0	0	0	108	0	0	36	0	0	0	0	33	0	0	-	-	-	-	-	-	0	-	-	-	-
SE258531	DS9	15 Dec 2023	Water	<1	<0.1	<1	2	<1	<0.1	2	20	<0.5	<0.5	9.7	<0.5	<1	<0.5	<1.5	10	<50	<50	-	-	-	-	-	-	<40	-	-	-	-
340788	QC4	15 Dec 2023	Water	2	<0.1	<1	3	<1	<0.05	3	11	<1	<1	15	<1	<2	<1	-	-	20	<10	<50	<50	<100	<100	<50	-	20	<50	<100	<100	<50
RPD				67	0	0	40	0	67	40	58	0	0	43	0	0	0	-	-	0	0	-	-	-	-	-	-	0	-	-	-	-
SE259897	GW2	29 Jan 2024	Water	<1	<0.1	<1	<1	<1	<0.1	11	63	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3	<50	<50	390	390	<500	<500	750	<200	<40	370	<200	210	-
SE259897	QC1	29 Jan 2024	Water	<1	<0.1	<1	<1	<1	<0.1	11	63	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3	<50	<50	370	370	<500	<500	670	<200	<40	360	<200	<200	-
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	11	0	0	3	0	5	-
SE259897	GW2	29 Jan 2024	Water	<1	<0.1	<1	<1	<1	<0.1	11	63	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<1.5	<3	<50	<50	390	390	<500	<500	750	<200	<40	370	<200	210	-
342854	QC2	29 Jan 2024	Water	<1	<0.1	<1	<1	<1	<0.05	10	57	<1	<1	<1	<1	<2	<1	-	-	<10	<10	130	130	<100	<100	130	-	<10	130	<100	<100	130
RPD				0	0	0	0	0	0	10	10	0	0	0	0	0	0	-	-	0	0	100	100	0	0	141	-	0	96	0	71	-

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 30 (0 - 10 x EQL); 30 (10 - 30 x EQL); 30 (> 30 x EQL))**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

TABLE 8: QAQC Results - Water
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				PAH																					Organochlorine Pesticides														
				Benzo(b+j+k)fluoranthene	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene TEQ	PAHs (Sum of total)	PAHs (Sum of positives)	Organochlorine pesticides EPAVic	2,4-DDT	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (technical)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Lab Report Number	**Field ID**	**Date**	**Matrix Type**																																					
SE258531	**DS4**	**15 Dec 2023**	**Water**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	-	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE258531	**QC1**	**15 Dec 2023**	**Water**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	-	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	0	0	0	0	0	0	0	0	0	0	0
SE258531	**DS4**	**15 Dec 2023**	**Water**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	-	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
340788	**QC2**	**15 Dec 2023**	**Water**	<0.2	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	0	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE258531	**DS9**	**15 Dec 2023**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE258531	**QC3**	**15 Dec 2023**	**Water**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	-	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE258531	**DS9**	**15 Dec 2023**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
340788	**QC4**	**15 Dec 2023**	**Water**	<0.2	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259897	**GW2**	**29 Jan 2024**	**Water**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	-	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SE259897	**QC1**	**29 Jan 2024**	**Water**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	-	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
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	0	0	0	0	0	0	0	0	0	0	0
SE259897	**GW2**	**29 Jan 2024**	**Water**	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	-	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
342854	**QC2**	**29 Jan 2024**	**Water**	<0.2	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	0	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

***RPDs have only been considered where a concentration is greate**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acc**
*****Interlab Duplicates are matched on a per compound basis as m**

TABLE 8: QAQC Results - Water
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				Organochlorine Pesticides													Organophosphorous Pesticides										PCBs									
				Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Isodrin	Methoxychlor	Mirex	o,p-DDD	o,p'-DDE	trans-Nonachlor	Azinophos methyl	Bromophos-ethyl	Chlorpyrifos	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenitrothion	Malathion	Methidathion	Parathion	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	Arochlor 1268	Aroclor 1262	PCBs (Sum of total)
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2	0.2	0.5	0.2	1	1	1	1	1	1	1	1	1	5
Lab Report Number	**Field ID**	**Date**	**Matrix Type**																																		
SE258531	**DS4**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
SE258531	**QC1**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
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	0	0	0	0	0	0	0	0	0	0
SE258531	**DS4**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
340788	**QC2**	**15 Dec 2023**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE258531	**DS9**	**15 Dec 2023**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE258531	**QC3**	**15 Dec 2023**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE258531	**DS9**	**15 Dec 2023**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
340788	**QC4**	**15 Dec 2023**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259897	**GW2**	**29 Jan 2024**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
SE259897	**QC1**	**29 Jan 2024**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
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	0	0	0	0	0	0	0	0	0	0
SE259897	**GW2**	**29 Jan 2024**	**Water**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.5	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5
342854	**QC2**	**29 Jan 2024**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

***RPDs have only been considered where a concentration is greate**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acc**
*****Interlab Duplicates are matched on a per compound basis as m**

TABLE 8: QAQC Results - Water
SITE: Bevian Road, Rosedale NSW
PROJECT No: P23158

				Phenols															
				3&4-Methylphenol (m&p-cresol)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2,3,4,6 & 2,3,5,6-Tetrachlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Phenol
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L
EQL				1	0.5	0.5	0.5	0.5	2	0.5	1	0.5	0.5	0.5	2	1	1.5	0.5	0.5
Lab Report Number	**Field ID**	**Date**	**Matrix Type**																
SE258531	**DS4**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE258531	**QC1**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE258531	**DS4**	**15 Dec 2023**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
340788	**QC2**	**15 Dec 2023**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE258531	**DS9**	**15 Dec 2023**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE258531	**QC3**	**15 Dec 2023**	**Water**	**3**	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	**3.4**	<0.5	**0.6**
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE258531	**DS9**	**15 Dec 2023**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
340788	**QC4**	**15 Dec 2023**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SE259897	**GW2**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
SE259897	**QC1**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
RPD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SE259897	**GW2**	**29 Jan 2024**	**Water**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<2	<1	<1.5	<0.5	<0.5
342854	**QC2**	**29 Jan 2024**	**Water**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RPD				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

***RPDs have only been considered where a concentration is greate**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acc**
*****Interlab Duplicates are matched on a per compound basis as m**

Appendix C

LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 31 May 2022 16:58:41

Reference: LS032784 EP

Address: Bevian Road, Rosedale, NSW 2536

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

Dataset Listing

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

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	06/04/2022	06/04/2022	Quarterly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	25/06/2019	25/06/2019	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	25/05/2022	06/05/2022	Monthly	1000m	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority	10/05/2022	10/05/2022	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	02/03/2022	14/07/2021	Quarterly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	15/02/2021	13/07/2012	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	03/05/2022	14/07/2021	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	11/05/2022	11/05/2022	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	11/05/2022	11/05/2022	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	11/05/2022	11/05/2022	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	03/03/2022	03/03/2022	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	16/02/2022	13/12/2018	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	10/05/2022	10/05/2022	Monthly	1000m	0	1	1
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	10/05/2022	10/05/2022	Monthly	1000m	0	1	1
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	10/05/2022	10/05/2022	Monthly	1000m	3	3	3
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	0	0	0
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	1	1
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	1	1
Points of Interest	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	1	1	12
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	1
Tanks (Points)	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	3
Major Easements	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	1	1	6
State Forest	Forestry Corporation of NSW	25/02/2021	14/02/2021	Annually	1000m	0	1	1
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	10/02/2022	31/12/2021	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	Annually	1000m	1	1	1
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	28/03/2022	23/02/2018	Annually	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	24/01/2022	24/01/2022	Annually	2000m	0	0	46

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
NSW Seamless Geology Single Layer: Rock Units	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	4	7	15
NSW Seamless Geology – Single Layer: Trendlines	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	0	0	0
NSW Seamless Geology – Single Layer: Geological Boundaries and Faults	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	0	1	2
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	19/05/2017	17/02/2011	As required	1000m	2	2	2
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	26/05/2022	06/05/2022	Monthly	500m	1	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	2	2	2
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	19/08/2021	05/08/2021	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	25/05/2022	25/05/2022	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Industry	25/05/2022	25/05/2022	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	25/05/2022	25/05/2022	Monthly	1000m	2	2	5
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	15/11/2021	07/12/2018	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	15/11/2021	05/11/2021	Monthly	1000m	4	11	30
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	18/05/2021	20/11/2019	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	18/05/2021	20/11/2019	Annually	1000m	0	1	1
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	19/08/2021	25/06/2021	Quarterly	1000m	0	0	0
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	26/05/2022	01/04/2022	Monthly	1000m	0	0	5
Bush Fire Prone Land	NSW Rural Fire Service	30/05/2022	08/12/2021	Weekly	1000m	4	4	4
Vegetation of Southern Forests	NSW Office of Environment & Heritage	09/12/2014	10/10/2011	Unknown	1000m	4	6	10
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	28/03/2022	19/03/2020	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	14/08/2017	15/05/2017	Annually	1000m	6	6	11
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000m	10	11	20
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	30/05/2022	30/05/2022	Weekly	10000m	-	-	-

Site Diagram

Bevian Road, Rosedale, NSW 2536

Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 1.88km²

Total Perimeter: 6.87km

Disclaimers:

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

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

Scale:

0 50 100 200 300 400 500
Meters

Data Source Aerial Imagery:
© Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56

Date: 31 May 2022

Contaminated Land

Bevian Road, Rosedale, NSW 2536

List of NSW contaminated sites notified to EPA

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

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist	Direction
N/A	No records in buffer								

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

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

NSW EPA Contaminated Land List Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Contaminated Land

Bevian Road, Rosedale, NSW 2536

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
N/A	No records in buffer							

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

Former Gasworks

Former Gasworks within the dataset buffer:

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

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

Waste Management & Liquid Fuel Facilities

Bevian Road, Rosedale, NSW 2536

National Waste Management Site Database

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

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

Waste Management Facilities Data Source: Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

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

National Liquid Fuel Facilities Data Source: Geoscience Australia
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PFAS Investigation & Management Programs

Bevian Road, Rosedale, NSW 2536

EPA PFAS Investigation Program

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

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

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

Defence PFAS Investigation Program

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

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

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

Defence PFAS Management Program

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

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

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

Airservices Australia National PFAS Management Program

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

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

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites

Bevian Road, Rosedale, NSW 2536

Defence 3 Year Regional Contamination Investigation Program

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

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

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

EPA Other Sites with Contamination Issues

Bevian Road, Rosedale, NSW 2536

EPA Other Sites with Contamination Issues

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

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

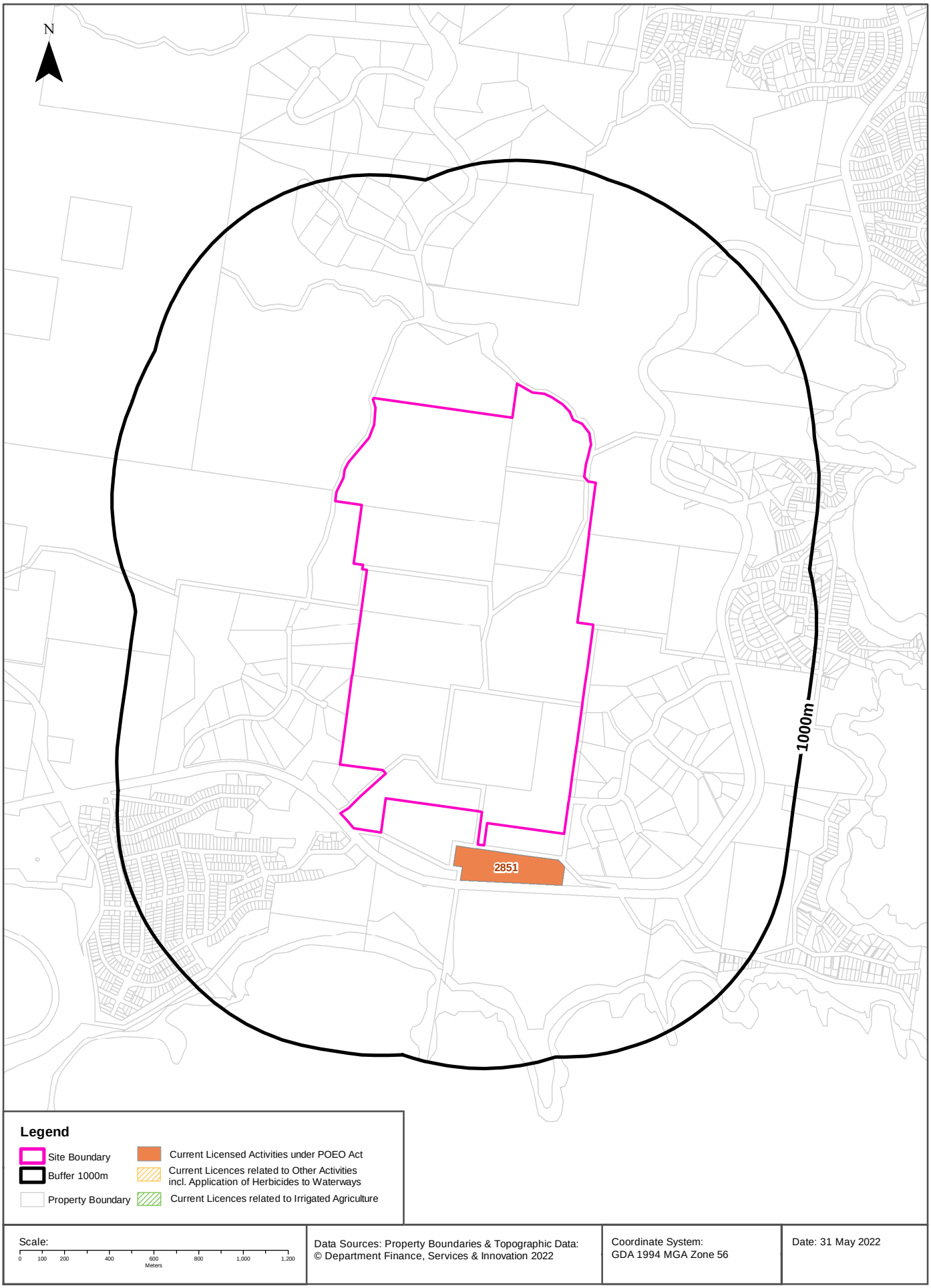
Sites within the dataset buffer:

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

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

Current EPA Licensed Activities

Bevian Road, Rosedale, NSW 2536



EPA Activities

Bevian Road, Rosedale, NSW 2536

Licensed Activities under the POEO Act 1997

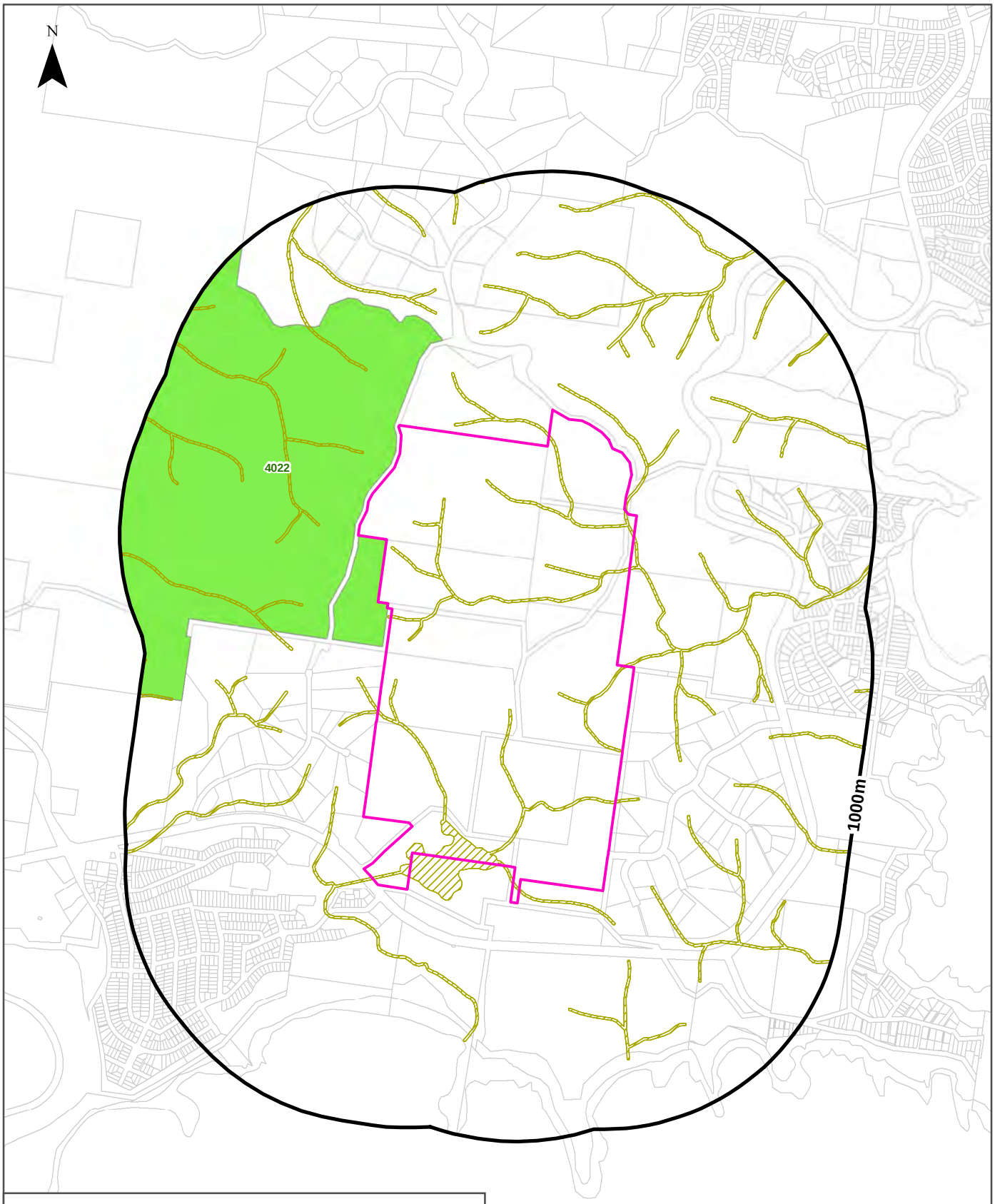
Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
2851	EUROBODALLA SHIRE COUNCIL	TOMAKIN SEWAGE TREATMENT PLANT	GEORGE BASS DRIVE	TOMAKIN	Sewage treatment processing by small plants	Premise Match	20m	South

POEO Licence Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

Bevian Road, Rosedale, NSW 2536



Legend

- Site Boundary
- Buffer 1000m
- Property Boundary
- Delicensed Activities still Regulated by EPA
- Former Licensed/Regulated Activities (revoked or surrendered)
- Surrendered Licences related to Other Activities on Waterways incl. Application of Herbicides

Scale:	Property Boundary Data Source:	Coordinate System:	Date:
0 100 200 400 600 800 1,000 1,200 Meters	© Department Finance, Services & Innovation 2022	GDA 1994 MGA Zone 56	31 May 2022

EPA Activities

Bevian Road, Rosedale, NSW 2536

Delicensed Activities still regulated by the EPA

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

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
4022	FORESTRY CORPORATION OF NEW SOUTH WALES		WITHIN THE SOUTHERN REGION DEPICTED ON FIGURE 3		Logging operations	Network of Features	0m	North West

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

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

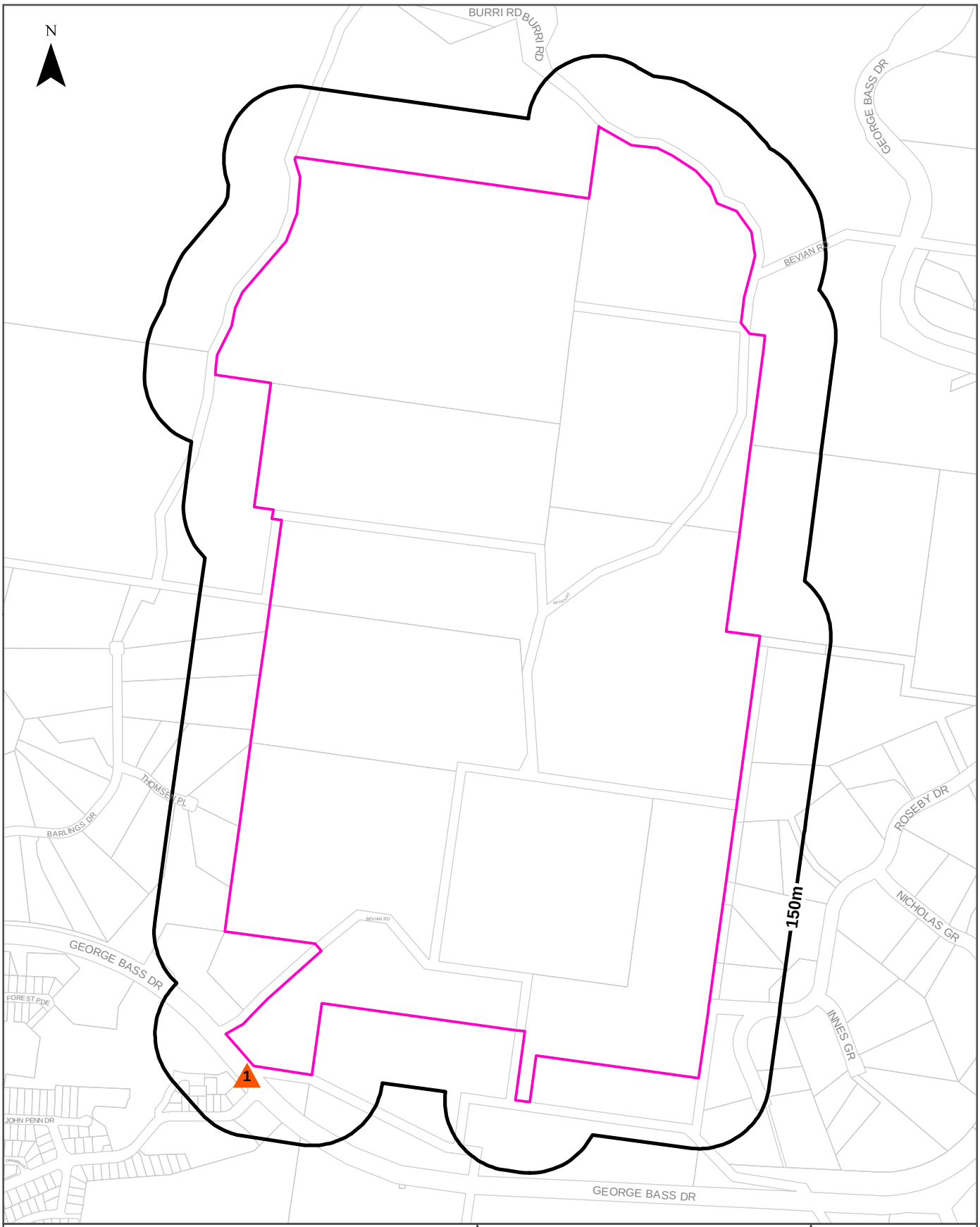
Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site

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

Historical Business Directories

Bevian Road, Rosedale, NSW 2536



Legend

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

Scale: 0 150 300 450 600 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 31 May 2022

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

Historical Business Directories

Bevian Road, Rosedale, NSW 2536

Business Directory Records 1950-1991
Premise or Road Intersection Matches

Universal Business Directory records from years 1991, 1982, 1970, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

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

Business Directory Records 1950-1991
Road or Area Matches

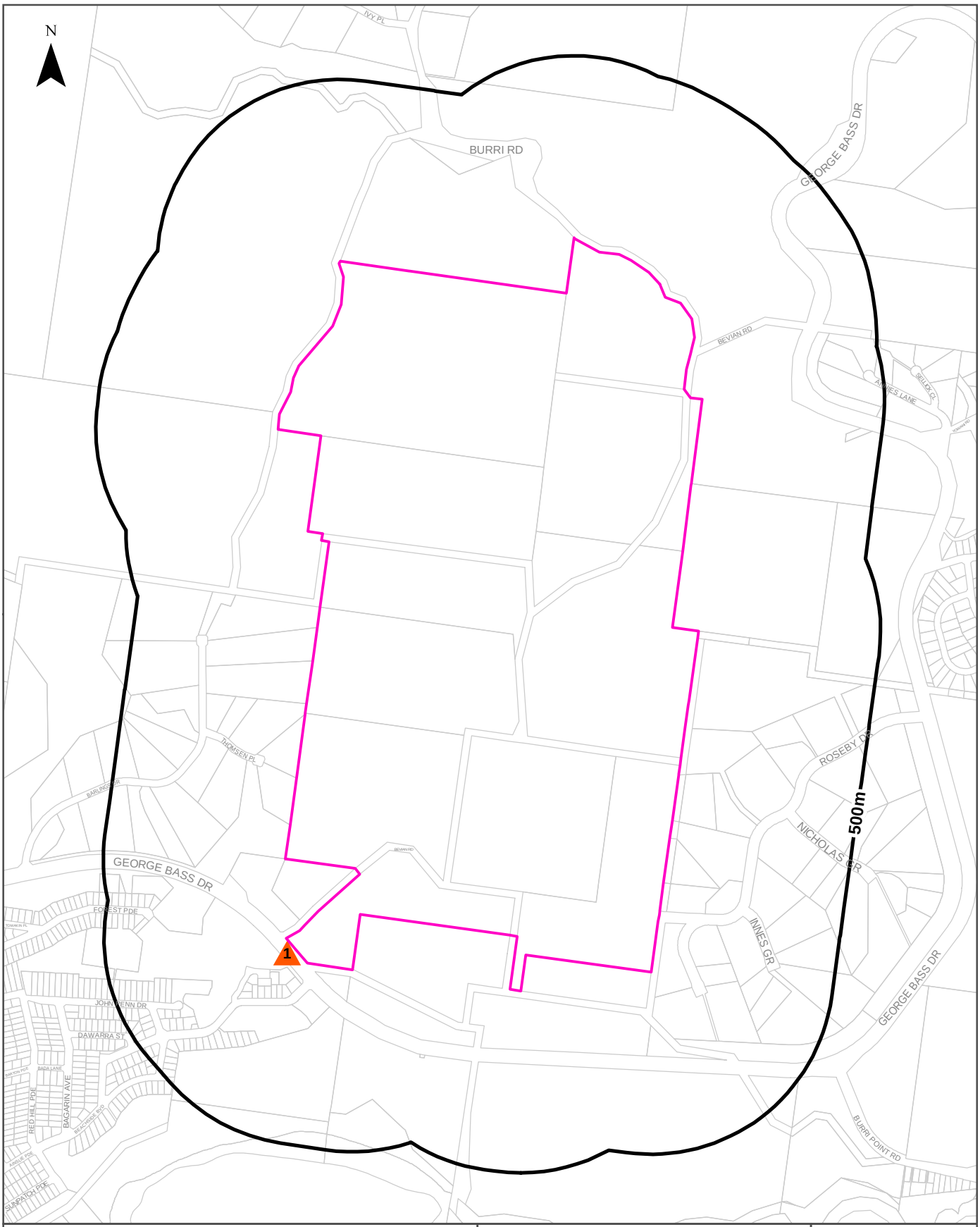
Universal Business Directory records from years 1991, 1982, 1970, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
1	MOTOR GARAGES & SERVICE STATIONS.	Tomakin Auto Centre., George Bass Dr., Tomakin., 2537	135849	1991	Road Match	0m

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

Dry Cleaners, Motor Garages & Service Stations

Bevian Road, Rosedale, NSW 2536



Legend

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

Scale: 0 200 400 600 800 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 31 May 2022

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

Historical Business Directories

Bevian Road, Rosedale, NSW 2536

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

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

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

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

Dry Cleaners, Motor Garages & Service Stations Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
1	MOTOR GARAGES & SERVICE STATIONS.	Tomakin Auto Centre., George Bass Dr., Tomakin., 2537	135849	1991	Road Match	0m

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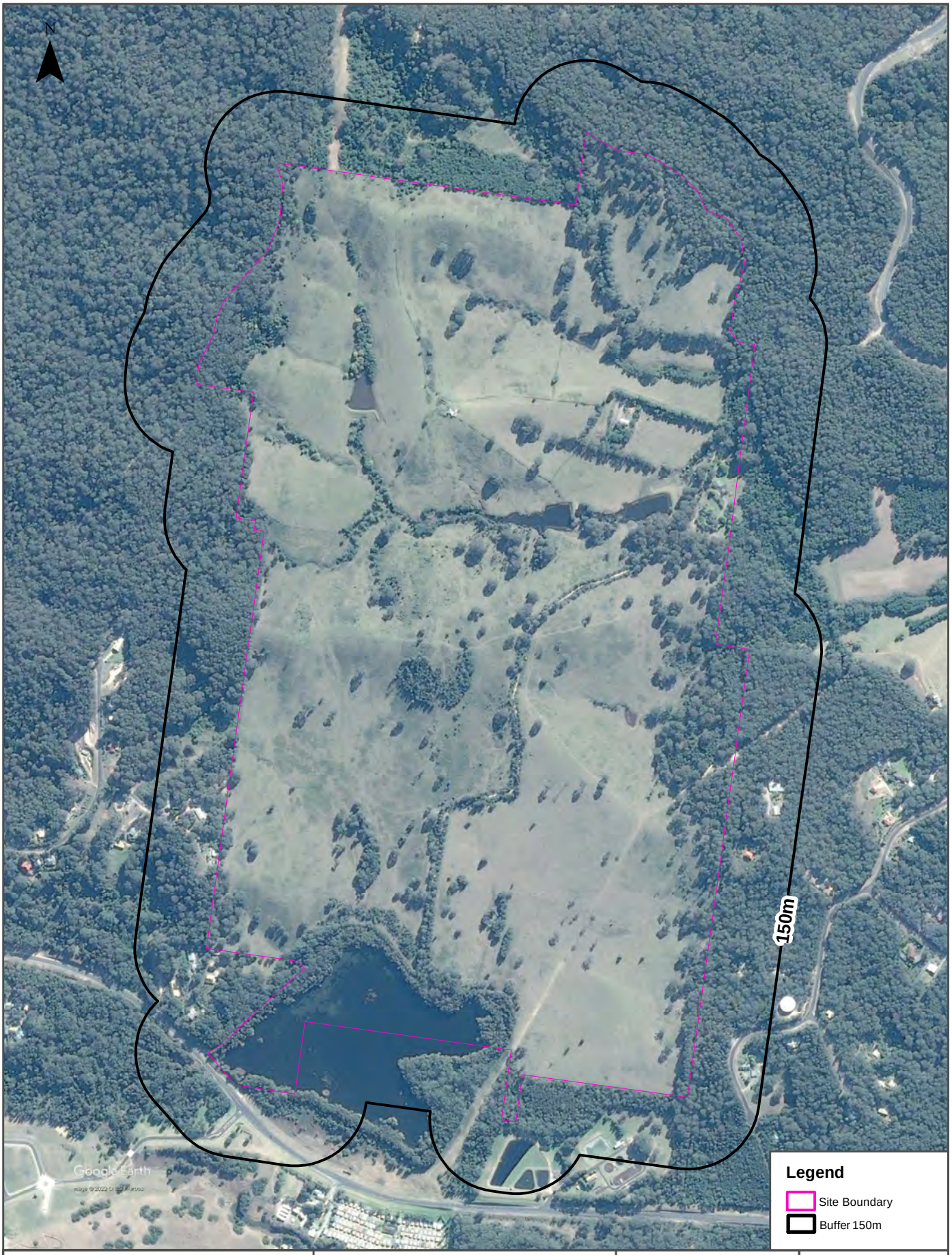
Aerial Imagery 2020

Bevian Road, Rosedale, NSW 2536

Scale:	Data Source Aerial Imagery:	Coordinate System:	Date: 31 May 2022
0 125 250 375 500 Meters	© Aerometrex Pty Ltd	GDA 1994 MGA Zone 56	

Aerial Imagery 2013

Bevian Road, Rosedale, NSW 2536



Aerial Imagery 2005

Bevian Road, Rosedale, NSW 2536

Scale:
0 125 250 375 500
Meters

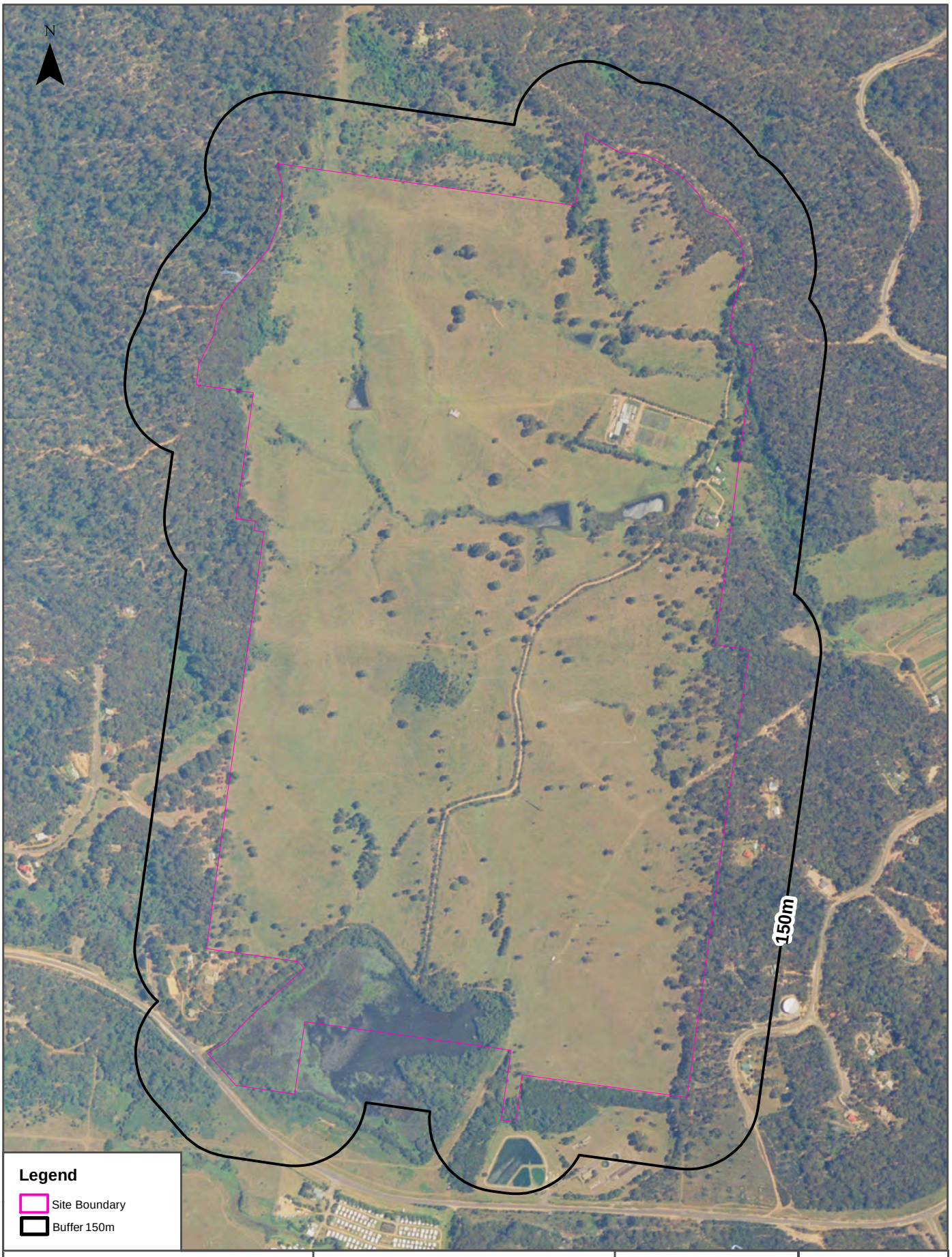
Data Source Aerial Imagery: © 2022 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 56

Date: 30 May 2022

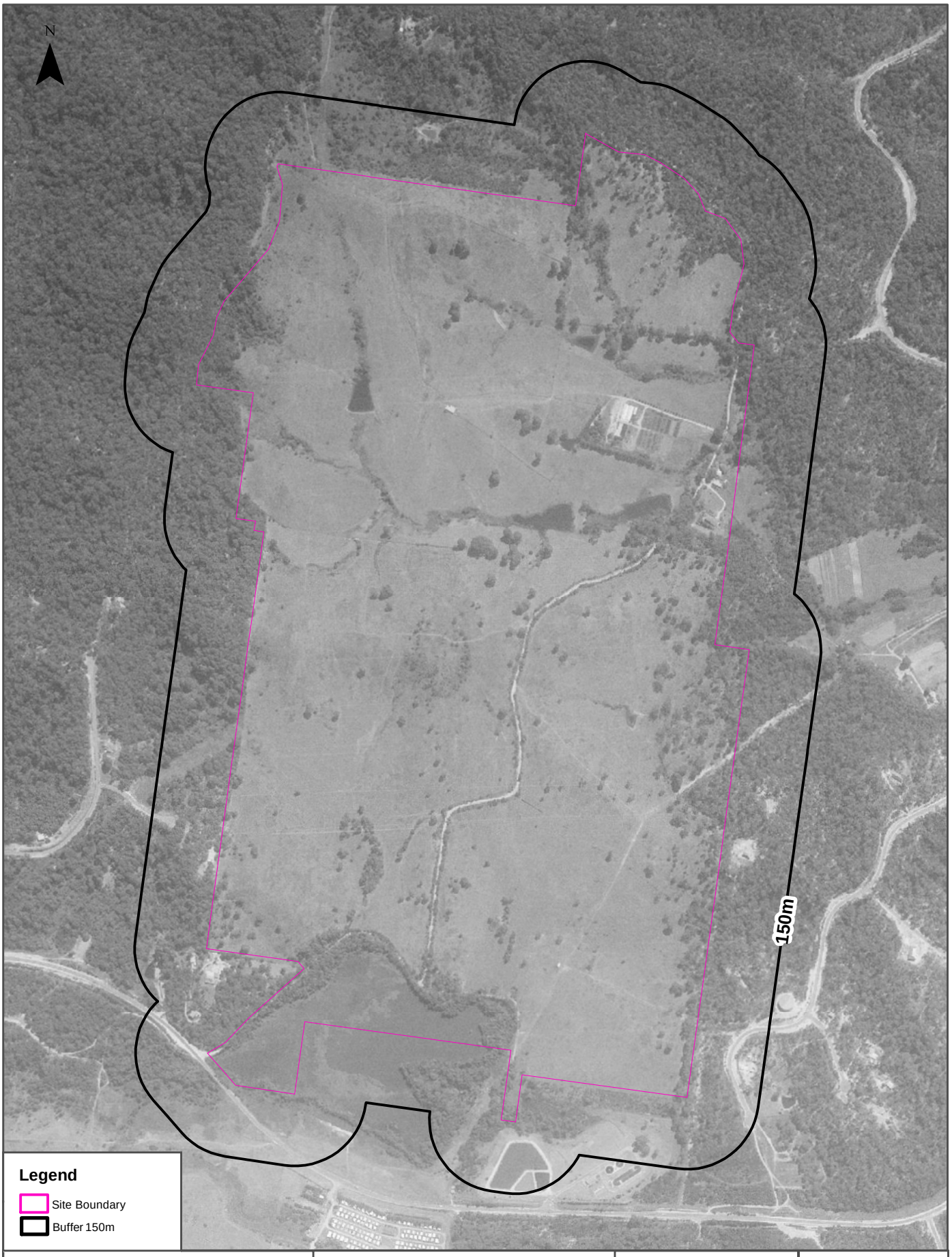
Aerial Imagery 1997

Bevian Road, Rosedale, NSW 2536



Aerial Imagery 1989

Bevian Road, Rosedale, NSW 2536

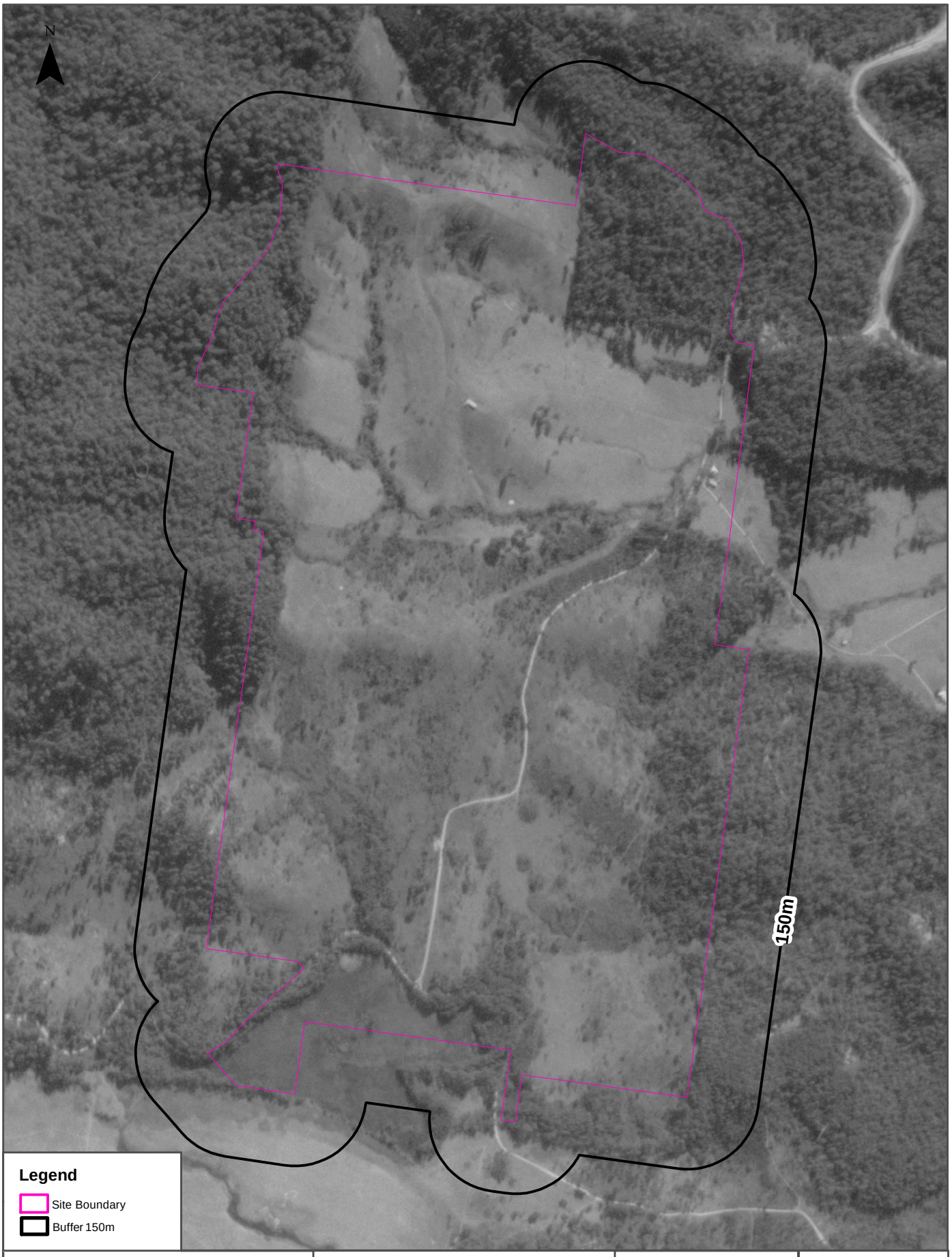


Aerial Imagery 1979

Bevian Road, Rosedale, NSW 2536

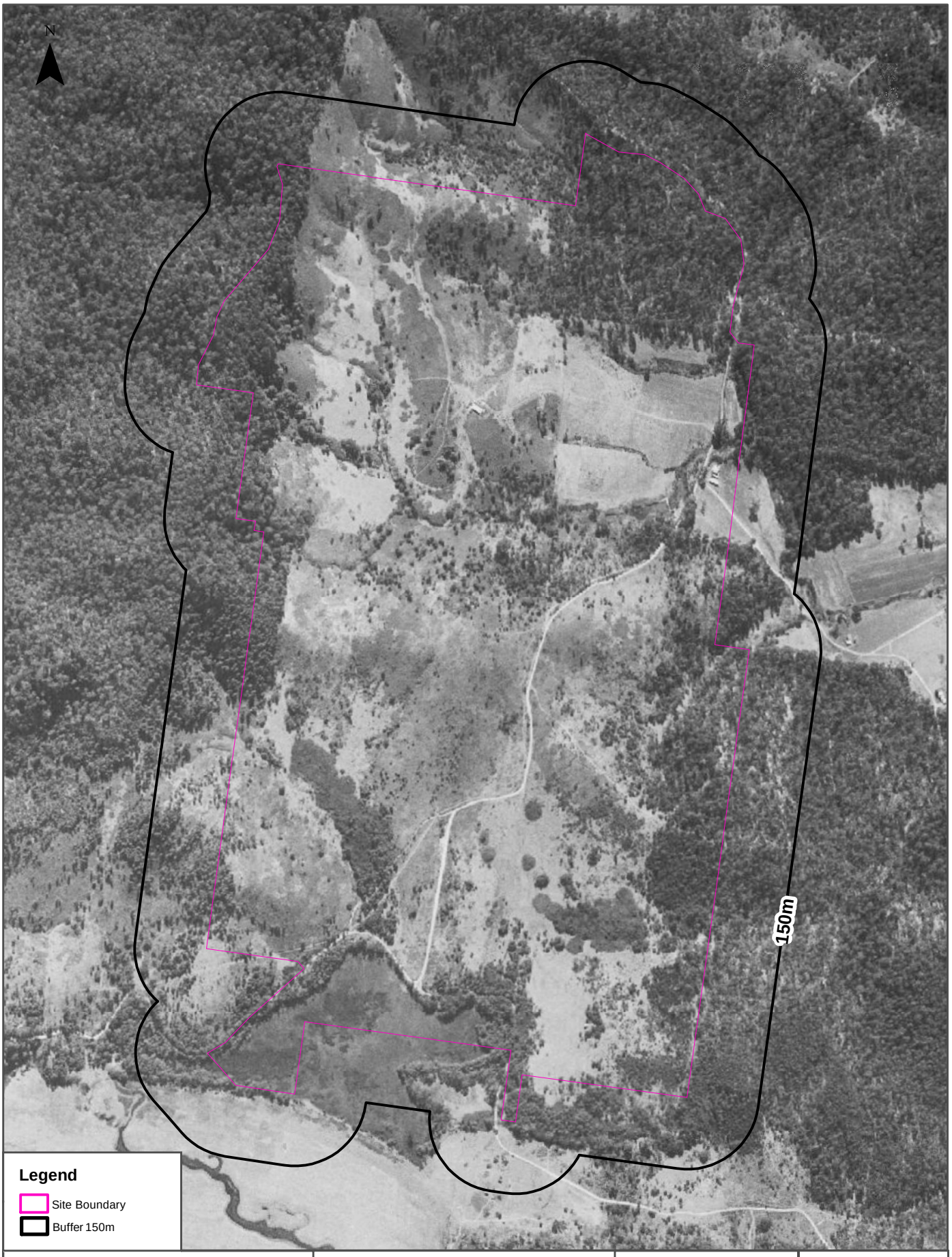
Aerial Imagery 1970

Bevian Road, Rosedale, NSW 2536



Aerial Imagery 1961

Bevian Road, Rosedale, NSW 2536



Topographic Map 2015

Bevian Road, Rosedale, NSW 2536

© Department of Finance, Services & Innovation 2018

Scale: 0 260 520 780 1,040 Meters	Data Sources: Topographic Map Data © NSW Land and Property Information	Coordinate System: GDA 1994 MGA Zone 56	Date: 31 May 2022

Historical Map 1971

Bevian Road, Rosedale, NSW 2536

Scale: 0 200 400 800 1,200 Metres

Data Sources: NATMAP 1:100,000
Topographic Maps Geoscience Australia

Coordinate System:
GDA 1994 MGA Zone 56

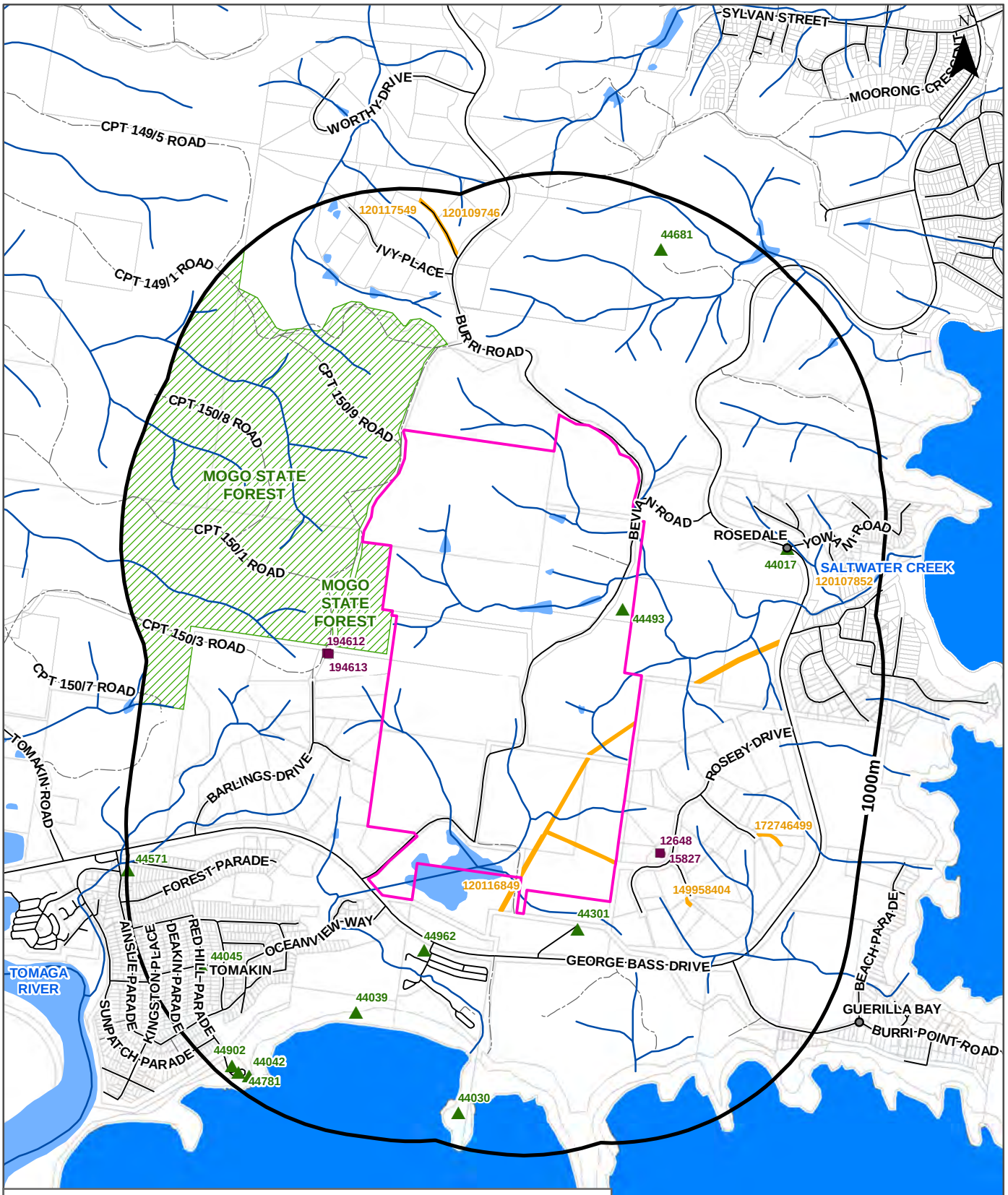
Date: 31 May 2022

Historical Map c.1943

Bevian Road, Rosedale, NSW 2536

Topographic Features

Bevian Road, Rosedale, NSW 2536



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

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2022

Coordinate System: GDA 1994 MGA Zone 56

Date: 31 May 2022

Topographic Features

Bevian Road, Rosedale, NSW 2536

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
44493	Homestead	BEVIAN PARK	0m	On-site
44301	Sewage Works	Sewage Works	131m	South
44962	Tourist Park / Home Village	BARLING BEACH HOLIDAY PARK	215m	South
44039	Beach	BARLINGS BEACH	497m	South West
44017	Village	ROSEDALE	601m	East
44045	Village	TOMAKIN	779m	South West
44681	Quarry - Open Cut	GRAVEL	789m	North
44030	Island	BARLINGS ISLAND	861m	South
44042	Headland	MELVILLE POINT	927m	South West
44902	Monument	Monument	939m	South West
44781	Lookout	Lookout	944m	South West
44571	Community Facility	TOMAKIN COMMUNITY CENTRE	994m	South West

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

Bevian Road, Rosedale, NSW 2536

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
15827	Water	Operational	ROSEDALE RESERVOIR	01/11/2014	169m	South East

Tanks (Points)

What are the Tank Points located within the dataset buffer?
Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
12648	Water	Feature on Previous LPI Tank Area Supply		26/02/2001	177m	South East
194613	Water	Operational		01/05/2020	254m	West
194612	Water	Operational		01/05/2020	264m	West

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

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

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120116849	Primary	Undefined		0m	On-site
149958404	Primary	Right of way		308m	South East
172746499	Primary	Right of way	7m and Variable	565m	South East
120109746	Primary	Undefined		745m	North
120117549	Primary	Undefined		882m	North
120107852	Primary	Undefined		906m	East

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

Bevian Road, Rosedale, NSW 2536

State Forest

What State Forest exist within the dataset buffer?

State Forest Number	State Forest Name	Distance	Direction
549	MOGO	0m	West

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018)
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National Parks and Wildlife Service Reserves

What NPWS Reserves exist within the dataset buffer?

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

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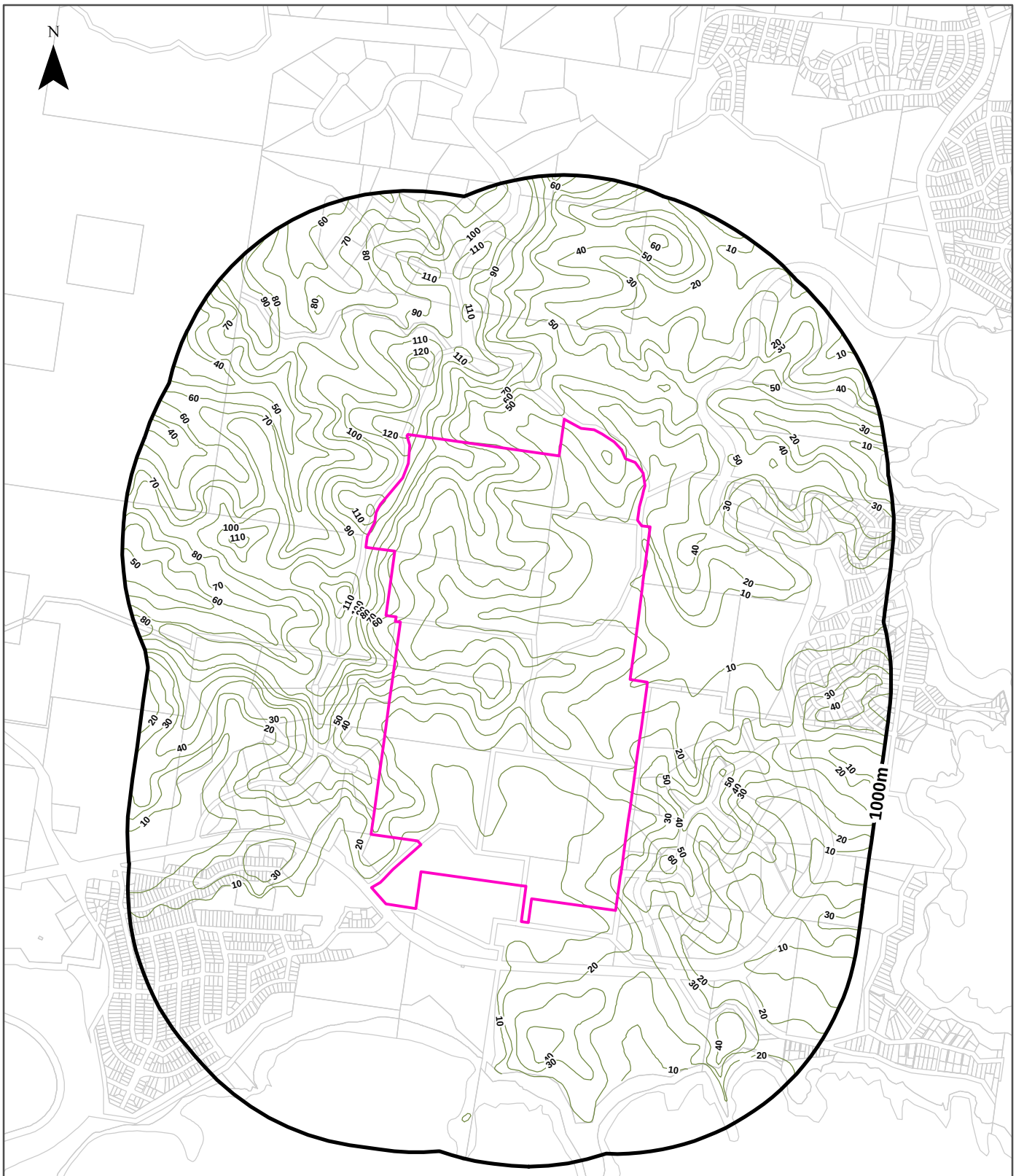
Elevation Contours (m AHD)

Bevian Road, Rosedale, NSW 2536



Legend

- Elevation Contour (m AHD)
- Site Boundary
- Buffer 1000m
- Property Boundary

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

Scale: 0 100 200 400 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2022	Coordinate System: GDA 1994 MGA Zone 56	Date: 31 May 2022

Hydrogeology & Groundwater

Bevian Road, Rosedale, NSW 2536

Hydrogeology

Description of aquifers within the dataset buffer:

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

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
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Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

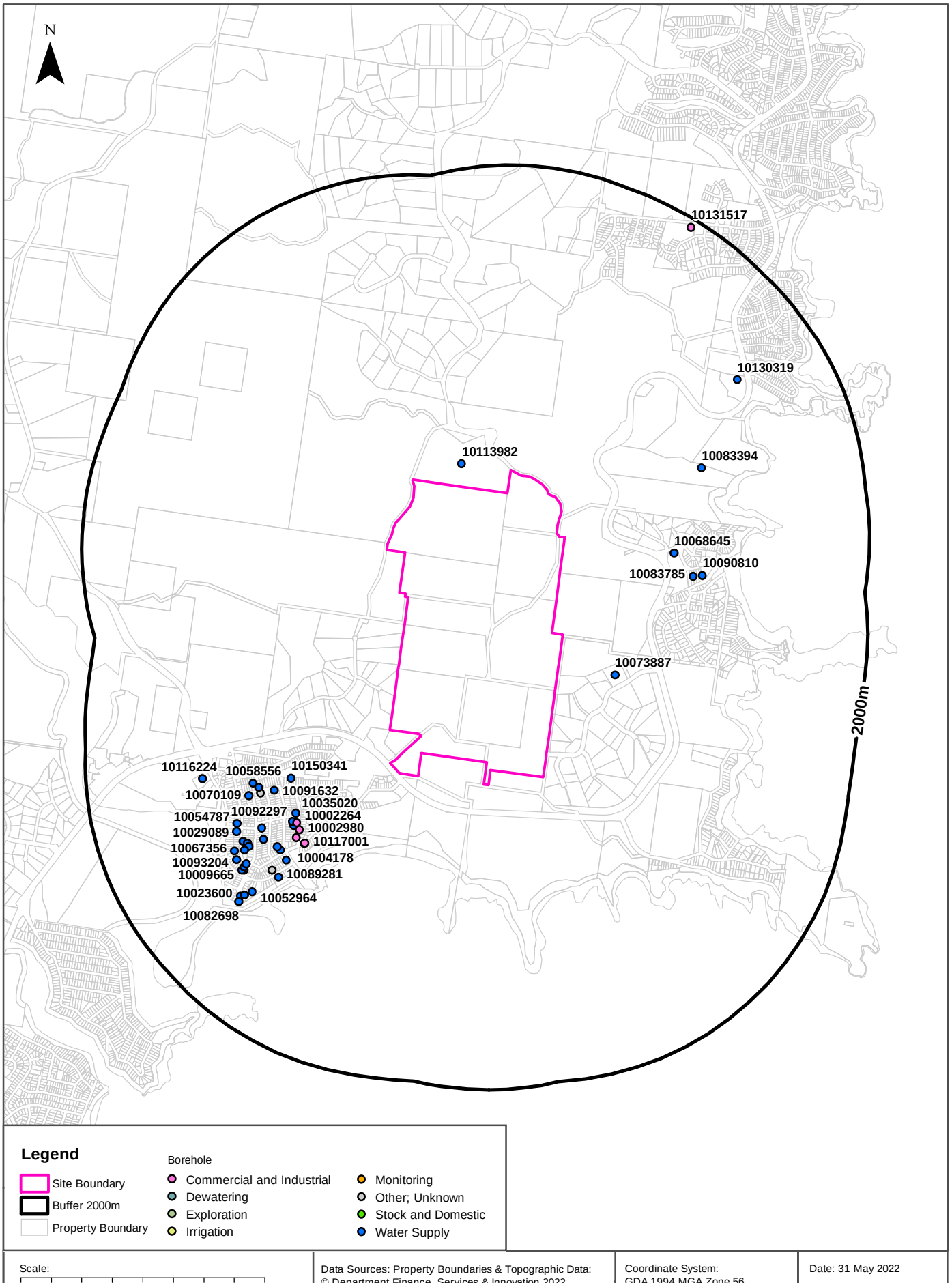
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

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

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

Groundwater Boreholes

Bevian Road, Rosedale, NSW 2536



Hydrogeology & Groundwater

Bevian Road, Rosedale, NSW 2536

Groundwater Boreholes

Boreholes within the dataset buffer:

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10113982	GW111981	Water Supply	Abandoned	20/11/2012	142.00		AHD				146m	North
10073887	GW102844	Water Supply	Functioning	01/01/1992	30.00		AHD		2.000	13.00	376m	East
10150341	GW116255	Water Supply	Functioning	01/12/2015	6.00		AHD				655m	South West
10035020	GW112164	Water Supply	Functioning	25/03/2013	5.50		AHD				700m	South West
10002264	GW109384	Commercial and Industrial	Unknown	10/10/2008	6.50		AHD				725m	South West
10068645	GW107545	Water Supply	Functioning	12/12/2002	4.70		AHD				727m	East
10002980	GW109385	Commercial and Industrial	Unknown	10/10/2008	6.50		AHD				738m	South West
10092297	GW112416	Water Supply	Functioning	04/04/2013	5.70		AHD				745m	South West
10007868	GW111949	Water Supply	Functioning	21/12/2012	6.10		AHD				754m	South West
10117001	GW109387	Commercial and Industrial	Unknown	10/10/2008	6.50		AHD				768m	South West
10004178	GW109388	Commercial and Industrial	Unknown	10/10/2008	6.50		AHD				774m	South West
10091632	GW104673	Water Supply	Functioning	01/01/1980	6.00		AHD				780m	South West
10004200	GW109386	Commercial and Industrial	Unknown	10/10/2008	6.50		AHD				786m	South West
10027057	GW105652	Unknown	Unknown	22/03/2005			AHD				870m	South West
10083785	GW105003	Water Supply	Functioning	02/12/2003	4.00		AHD				872m	East
10072545	GW104664	Water Supply	Functioning	01/12/2002	4.50		AHD		0.500	2.40	875m	South West
10058556	GW107910	Water Supply	Unknown	01/01/2005	2.50		AHD		1.000		907m	South West
10007624	GW105641	Water Supply	Functioning	21/03/2005	2.00		AHD				920m	South West
10078124	GW104665	Water Supply	Functioning	01/12/1980	5.00		AHD		1.000	3.00	921m	South West
10089281	GW109069	Water Supply	Unknown	16/07/2008	3.50		AHD				932m	South West
10090810	GW104803	Water Supply	Functioning	31/12/2002	5.00		AHD				932m	East
10030609	GW104540	Water Supply	Functioning	17/10/2002			AHD				941m	South West
10070109	GW105237	Water Supply	Unknown	29/05/2003	6.00		AHD				950m	South West
10083394	GW054894	Water Supply	Unknown	01/03/1981	68.60		AHD	Good			957m	North East
10071693	GW104749	Water Supply	Functioning	01/01/1970	4.27		AHD				968m	South West
10095030	GW109883	Water Supply	Unknown	06/01/2008	5.00		AHD				1046m	South West
10039873	GW107604	Unknown	Unknown	01/11/2006			AHD				1047m	South West
10048777	GW105001	Water Supply	Functioning	03/03/2003	5.00		AHD				1072m	South West
10087055	GW110408	Water Supply	Unknown	21/09/2009	6.20		AHD				1077m	South West

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10054787	GW109097	Water Supply	Unknown	23/07/2008	1.00		AHD				1079m	South West
10045694	GW105404	Water Supply	Unknown	20/08/2003	5.20		AHD				1092m	South West
10029089	GW105417	Water Supply	Unknown	01/01/1980	6.00		AHD			2.00	1101m	South West
10109063	GW105556	Water Supply	Unknown	25/08/2003	5.00		AHD				1113m	South West
10108039	GW110645	Water Supply	Unknown	21/12/2009	5.00		AHD				1152m	South West
10067356	GW104798	Water Supply	Functioning	01/02/2002	6.00		AHD				1172m	South West
10042365	GW104541	Water Supply	Functioning	01/01/1982	5.18		AHD		0.830	12.00	1177m	South West
10090856	GW105922	Unknown	Unknown	13/05/2005			AHD				1189m	South West
10093204	GW104719	Water Supply	Functioning	24/02/2003	5.50		AHD				1190m	South West
10009665	GW108801	Water Supply	Unknown	21/04/2008	6.10		AHD				1201m	South West
10116224	GW108462	Water Supply	Unknown	20/12/2003	4.50		AHD				1233m	South West
10052964	GW104779	Water Supply	Unknown	22/11/2002	5.50		AHD				1237m	South West
10077213	GW104070	Water Supply	Unknown	24/08/2001	3.00		AHD				1291m	South West
10023600	GW108083	Water Supply	Functioning	12/04/2006	6.00		AHD				1314m	South West
10082698	GW102901	Water Supply	Unknown	01/12/1999	6.00		AHD				1348m	South West
10130319	GW106528	Water Supply	Functioning	03/12/2003	49.00		AHD	1500	0.500	30.00	1419m	North East
10131517	GW107810	Commercial and Industrial	Unknown	03/03/2004	44.00		AHD	4.15	1.280	3.90	1946m	North East

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

Hydrogeology & Groundwater

Bevian Road, Rosedale, NSW 2536

Driller's Logs

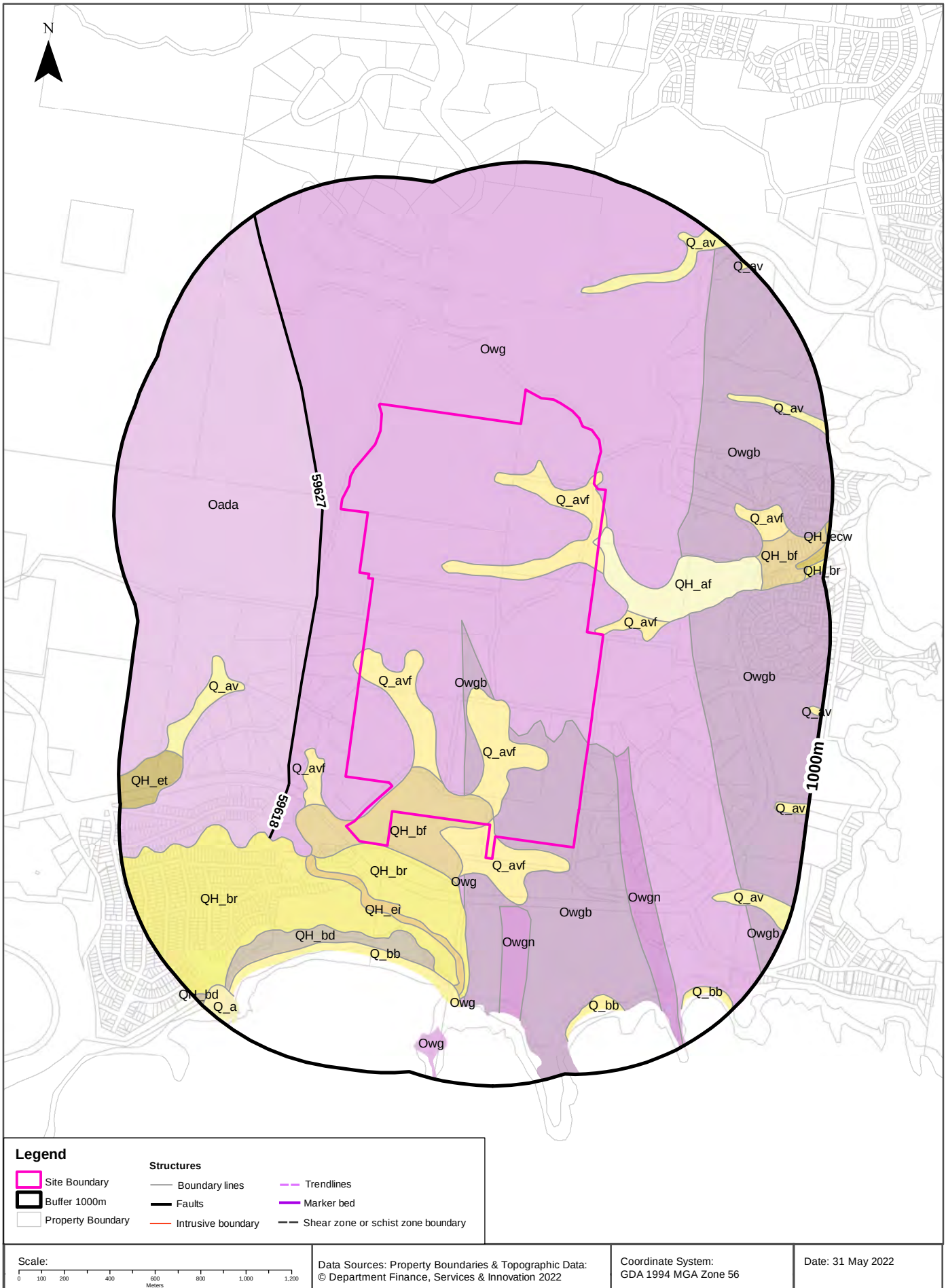
Drill log data relevant to the boreholes within the dataset buffer:

NGIS Bore ID	Drillers Log	Distance	Direction
10113982	0.00m-1.00m TOPSOIL 1.00m-2.00m CLAY 2.00m-21.00m SHALE SOFT 21.00m-54.00m SHALE BLACK 54.00m-72.00m GRANITE GREY 72.00m-80.00m SHALE BLACK 80.00m-94.00m GRANITE GREY 94.00m-142.00m SHALE BLACK	146m	North
10007868	0.00m-6.10m (Unknown)	754m	South West
10091632	0.00m-6.00m SAND	780m	South West
10072545	0.00m-4.50m SAND	875m	South West
10078124	0.00m-5.00m SAND	921m	South West
10070109	0.00m-6.00m	950m	South West
10083394	0.00m-0.30m Topsoil 0.30m-5.20m Shale Soft 5.20m-45.70m Shale Hard Water Supply 45.70m-68.60m Slate Water Supply	957m	North East
10023600	0.00m-6.00m SAND	1314m	South West
10082698	0.00m-6.00m SAND ALL THE WAY	1348m	South West
10130319	0.00m-2.70m topsoil, clay weathered phyllite 2.70m-25.50m phyllite 25.50m-49.00m basalt, quartz	1419m	North East
10131517	0.00m-1.50m FILL 1.50m-2.40m DARK BROWN TOPSOIL/CLAY 2.40m-3.60m CLAY 3.60m-5.40m SOFT BROWN SHALE 5.40m-17.60m BROWN SHALE 17.60m-33.50m DAREK GREY SHALE 33.50m-44.00m DARK GREY SHALE,BANDS OF QUARTZ	1946m	North East

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

Geology

Bevian Road, Rosedale, NSW 2536



Geology

Bevian Road, Rosedale, NSW 2536

Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Owg	Wagonga Group	Chert, conglomerate, siltstone, sandstone, basic volcanic rocks.	/Wagonga Group////	Iverian (base) to Bo5 (Bolindian) (top)	Chert	0m
Owgb	Bogolo Formation	Mudstone plus minor quartz sandstone and chert; mafic volcanic rocks.	/Wagonga Group//Bogolo Formation//	Bo2 (Bolindian) (base) to Bo5 (Bolindian) (top)	Mudstone	0m
Q_avf	Alluvial fan deposits	Fluvially-deposited quartz-lithic sand, silt, gravel, clay.	/Alluvium//Alluvial valley deposits/Alluvial fan deposits/	Quaternary (base) to Now (top)	Clastic sediment	0m
QH_bf	Coastal deposits - backbarrier flat facies	Fine- to medium-grained quartz-lithic sand with carbonate and humic components (marine-deposited), indurated sand, silt, clay, gravel, organic mud, peat.	/Coastal deposits//Coastal deposits - backbarrier flat facies//	Holocene (base) to Now (top)	Sand	0m
QH_af	Alluvial floodplain deposits	Silt, very fine- to medium-grained lithic to quartz-rich sand, clay.	/Alluvium//Alluvial floodplain deposits//	Holocene (base) to Now (top)	Clastic sediment	0m
QH_br	Coastal deposits - beach ridge	Fine- to coarse-grained quartz-lithic-carbonate sand (marine-deposited), shell and shell-fragment-rich beds, polymictic gravel.	/Coastal deposits//Coastal deposits - beach ridge//	Holocene (base) to Now (top)	Sand	0m
Oada	Abercrombie Formation	Brown and buff to grey, thin- to thick-bedded, fine- to coarse-grained mica-quartz (±feldspar) sandstone, interbedded with laminated siltstone and mudstone. Sporadic chert-rich units.	Lachlan Supergroup/Adaminaby Group//Abercrombie Formation//	La2b (Lancefieldian) (base) to Da4 (Darriwilian) (top)	Sandstone	82m
Owgn	Narooma Chert	Chert and fine-grained sedimentary rocks.	/Wagonga Group//Narooma Chert//	Iverian (base) to Bo2 (Bolindian) (top)	Chert	116m
QH_ei	Estuarine interbarrier creek deposits	Fine- to medium-grained lithic-carbonate-quartz sand (marine-deposited), silt, clay, organic mud, peat, gravel, shell material.	/Estuarine deposits//Estuarine interbarrier creek deposits//	Holocene (base) to Now (top)	Clastic sediment	154m
QH_bd	Coastal deposits - dune facies	Marine-deposited and aeolian-reworked coastal sand dunes.	/Coastal deposits//Coastal deposits - dune facies//	Holocene (base) to Now (top)	Sand	375m
Q_bb	Coastal deposits - beach facies	Marine-deposited quartz-lithic fine- to medium-grained sand, shell and shell material, polymictic gravel.	/Coastal deposits//Coastal deposits - beach facies//	Quaternary (base) to Now (top)	Sand	442m
Q_av	Alluvial valley deposits	Silt, clay, (fluvially deposited) lithic to quartz-lithic sand, gravel.	/Alluvium//Alluvial valley deposits//	Quaternary (base) to Now (top)	Clastic sediment	488m
QH_et	Estuarine tidal-delta flat	Fine- to medium-grained lithic-carbonate-quartz sand (marine-deposited), silt, clay, shell material, polymictic gravel.	/Estuarine deposits//Estuarine tidal-delta flat//	Holocene (base) to Now (top)	Clastic sediment	717m
QH_ecw	Estuarine channel deposits (subaqueous)	Fine- to medium-grained lithic-carbonate-quartz sand (marine-deposited), silt, clay, shell, gravel.	/Estuarine deposits//Estuarine channel deposits/Estuarine channel deposits (subaqueous)/	Holocene (base) to Now (top)	Clastic sediment	873m

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Q_a	Alluvium	Unconsolidated grey to brown to beige humic (±)micaceous silty clay, quartz-(±)lithic silt, fine- to medium-grained quartz-rich to quartz-lithic sand, polymictic pebble to cobble gravel (as sporadic lenses); sporadic palaeosol horizons.	/Alluvium////	Quaternary (base) to Now (top)	Clastic sediment	874m

Linear Geological Structures

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

Map ID	Feature Description	Map Sheet Name	Distance
No Features			

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

Map ID	Boundary Type	Description	Map Sheet Name	Distance
59627	Faulted boundary	Fault, position approximate	Eastern Lachlan Orogen version 2	82m
59618	Faulted boundary	Fault, position approximate	Eastern Lachlan Orogen version 2	251m

Geological Data Source: Statewide Seamless Geology v2.1, Department of Regional NSW
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Naturally Occurring Asbestos Potential

Bevian Road, Rosedale, NSW 2536

Naturally Occurring Asbestos Potential

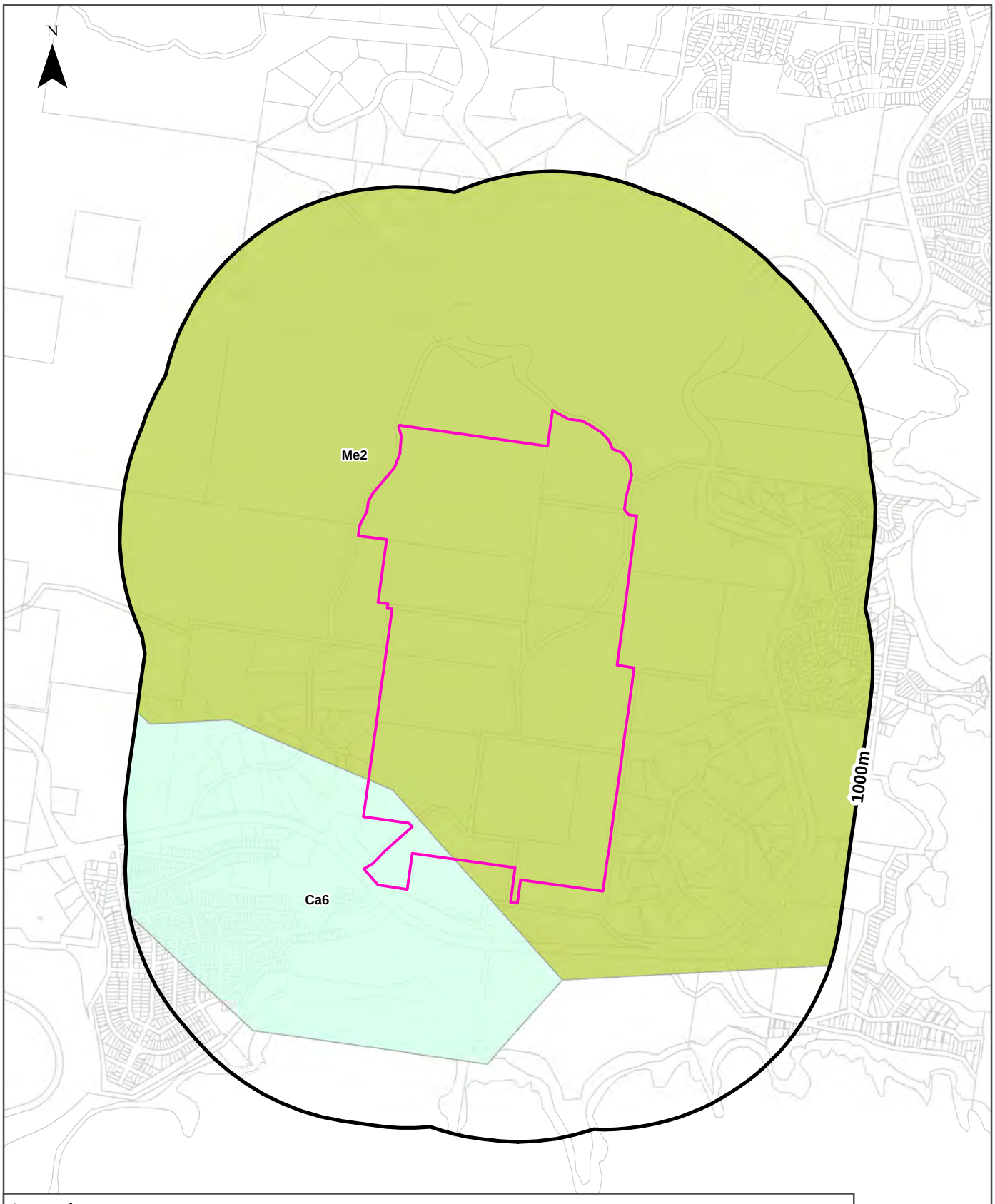
Naturally Occurring Asbestos Potential within the dataset buffer:

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

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

Atlas of Australian Soils

Bevian Road, Rosedale, NSW 2536



Soils

Bevian Road, Rosedale, NSW 2536

Atlas of Australian Soils

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

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Me2	Dermosol	Steep hilly to mountainous with incised stream valleys: steep but more or less rounded hill slopes of brown friable earths (Gn3.21 and Gn3.22) and possibly some (Gn4) soils, in association with: at the higher altitudes, steep hill slopes of sandy soils (Uc4.2), loamy soils having an A2 horizon (Um4.2) with yellow-brown earths (Gn2.44), and possibly (Uc6.11) and (Um5.41) soils; and at the lower altitudes, moderate to steep slopes of hard acidic yellow mottled soils (Dy3 21 and Dy3.41), hard acidic red soils (Dr2.21), and yellow leached friable earths (Gn3.54); and narrow incised stream valleys of various soils including (Um6.11) and (Dy) soils. This unit is a broad one. In some areas the (Um4.2) and (Gn2.44) soils and in others the (Dy) and (Dr) soils rather than the (Gn3 soils could be dominant.	0m	On-site
Ca6	Podosol	Dunes of leached sands (Uc2.2) with some areas of (Uc2.3) soils in low-lying situations, also (Dy5.41) soils in some localities, and flanked by some dunes of calcareous sands (Uc1.11) along the coast.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO
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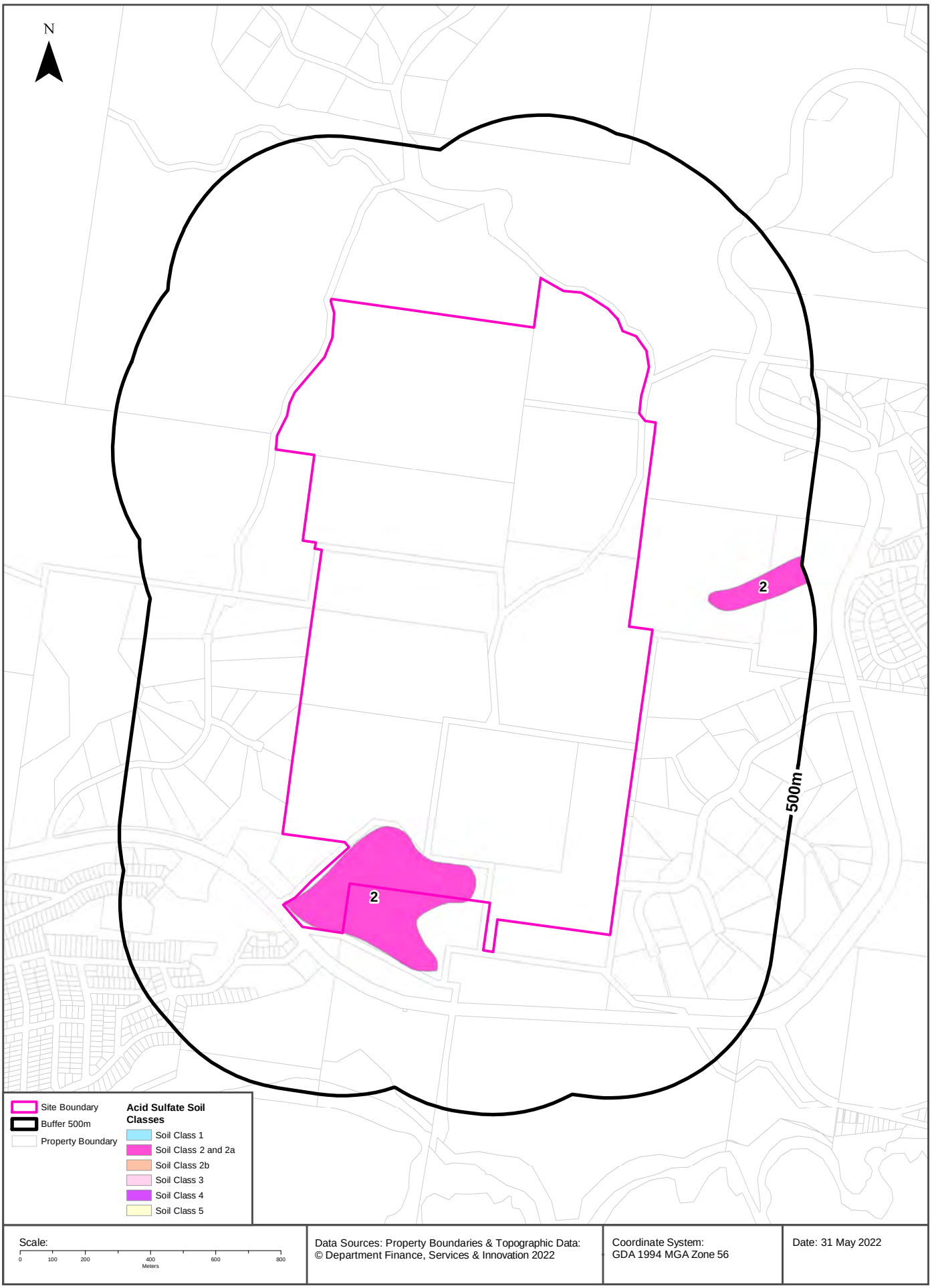
Acid Sulfate Soils

Bevian Road, Rosedale, NSW 2536



Acid Sulfate Soils

Bevian Road, Rosedale, NSW 2536

Environmental Planning Instrument - Acid Sulfate Soils

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

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

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

Soil Class	Description	EPI Name	Distance	Direction
N/A				

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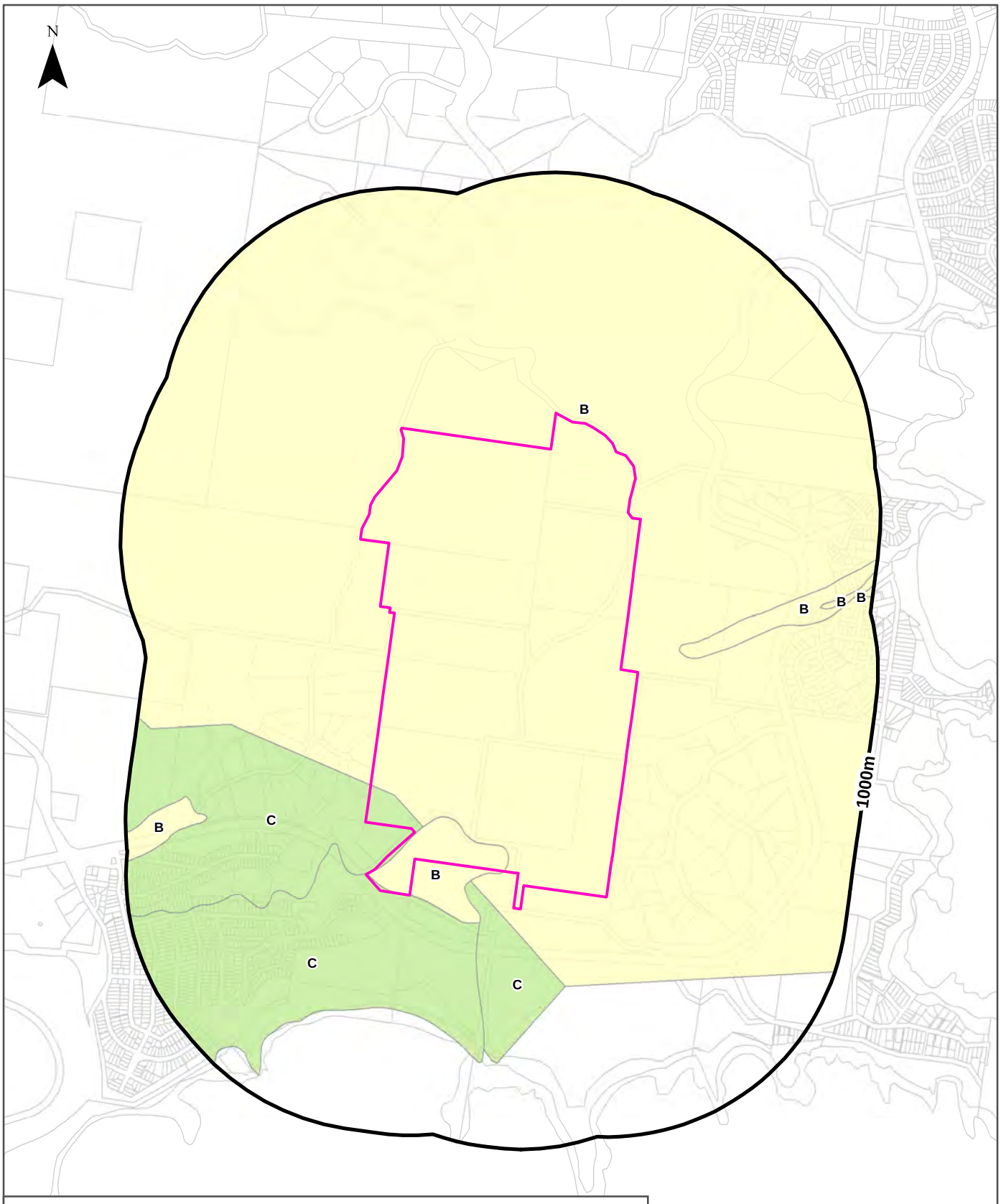
Atlas of Australian Acid Sulfate Soils

Bevian Road, Rosedale, NSW 2536



Legend

Site Boundary
Buffer 1000m
Property Boundary

Probability of occurrence of Acid Sulfate Soils

A. High (>70%)
B. Low (6-70%)
C. Extremely Low (1-5%)
D. No Chance (0%)
No Data

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

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2022

Coordinate System: GDA 1994 MGA Zone 56

Date: 31May 2022

Acid Sulfate Soils

Bevian Road, Rosedale, NSW 2536

Atlas of Australian Acid Sulfate Soils

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

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

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

Bevian Road, Rosedale, NSW 2536

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

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

No

What Dryland Salinity assessments are given?

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

Dryland Salinity Data Source : National Land and Water Resources Audit
The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.
In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Mining

Bevian Road, Rosedale, NSW 2536

Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

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

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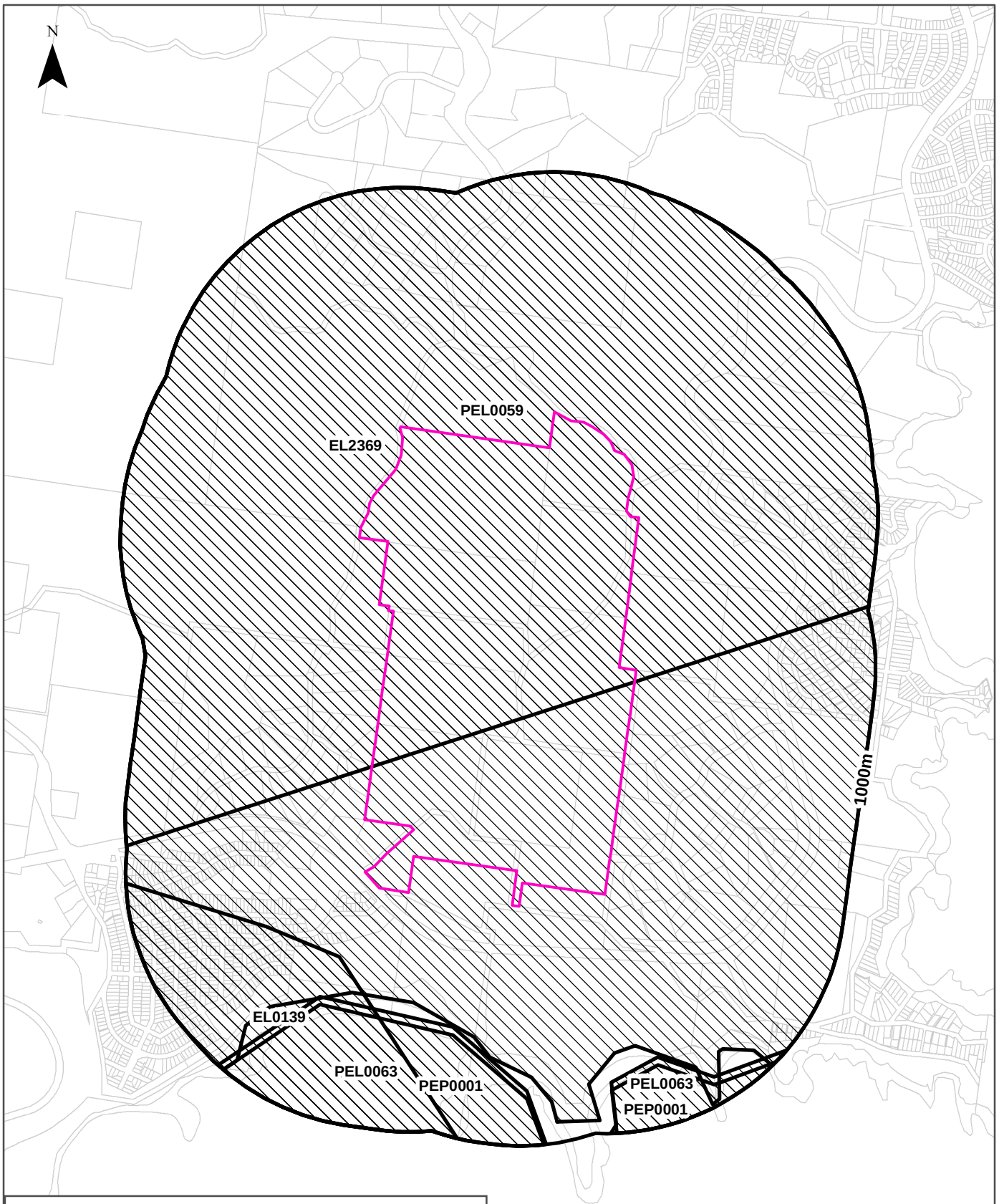
Mining & Exploration Titles

Bevian Road, Rosedale, NSW 2536



Mining

Bevian Road, Rosedale, NSW 2536

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

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

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

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

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

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

Mining

Bevian Road, Rosedale, NSW 2536

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
EL2369	VALLEY EXPLORATION PTY LIMITED	01 Jun 1983	01 Jan 1987	MINERALS	Au	0m	On-site
PEL0059	L H SMART OIL EXPLORATION CO. LTD			PETROLEUM	Petroleum	0m	On-site
EL0139	PLANET MINING COMPANY PTY LIMITED	01 Dec 1968	01 Dec 1969	MINERALS	Au	331m	South West
PEL0063	L H SMART OIL EXPLORATION CO. LTD			PETROLEUM	Petroleum	496m	South
PEP0001	MAGELLAN AND SOUTHERN PACIFIC PETROLEUM N.L.			PETROLEUM	Petroleum	528m	South

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

State Environmental Planning Policy

Bevian Road, Rosedale, NSW 2536

State Significant Precincts

What SEPP State Significant Precincts exist within the dataset buffer?

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

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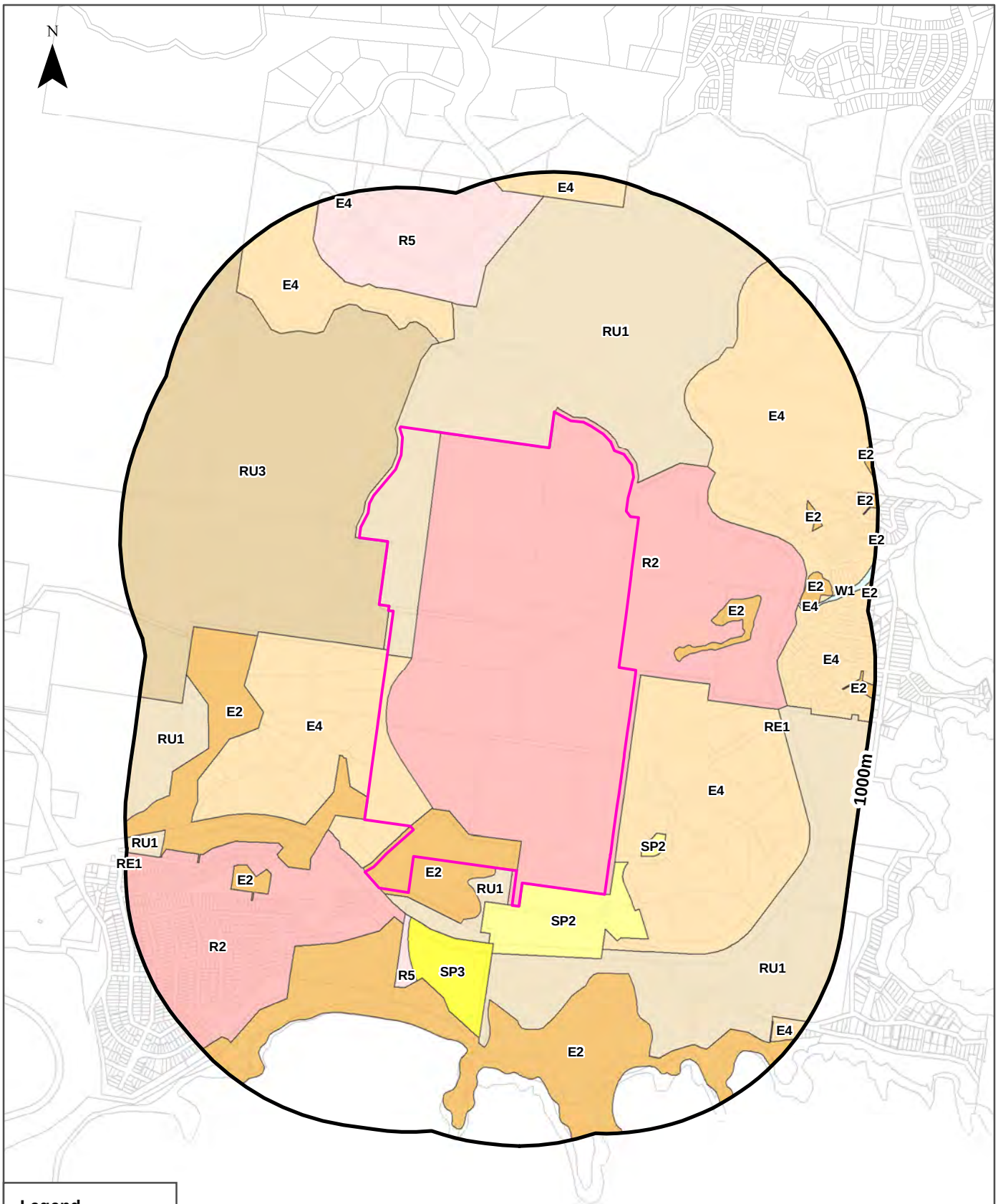
EPI Planning Zones

Bevian Road, Rosedale, NSW 2536



Legend

- Site Boundary
- Buffer 1000m
- Property Boundary

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

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2022
Planning: NSW Crown Copyright - Planning & Environment

Coordinate System: GDA 1994 MGA Zone 56

Date: 31 May 2022

Environmental Planning Instrument

Bevian Road, Rosedale, NSW 2536

Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
E2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		0m	On-site
R2	Low Density Residential		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		0m	On-site
E4	Environmental Living		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		0m	On-site
RU1	Primary Production		Eurobodalla Local Environmental Plan 2012	11/10/2019	11/10/2019	18/09/2020	Amendment No 11	0m	On-site
R2	Low Density Residential		Eurobodalla Local Environmental Plan 2012	27/11/2015	27/11/2015	18/09/2020	Amendment No 7	0m	South West
E2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		0m	West
RU3	Forestry		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		0m	North West
SP2	Infrastructure	Sewerage System	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		0m	South
RU1	Primary Production		Eurobodalla Local Environmental Plan 2012	11/10/2019	11/10/2019	18/09/2020	Amendment No 11	0m	South
E4	Environmental Living		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		19m	South East
R5	Large Lot Residential		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		89m	South
SP3	Tourist		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		104m	South
E2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	11/10/2019	11/10/2019	18/09/2020	Amendment No 11	110m	South
SP2	Infrastructure	Water Storage Facility	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		123m	South East
E2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		172m	East
RU1	Primary Production		Eurobodalla Local Environmental Plan 2012	11/10/2019	11/10/2019	18/09/2020	Amendment No 11	201m	South East
E4	Environmental Living		Eurobodalla Local Environmental Plan 2012	11/10/2019	11/10/2019	18/09/2020	Amendment No 11	293m	North East
E4	Environmental Living		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		369m	North West
E2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	27/11/2015	27/11/2015	18/09/2020	Amendment No 7	394m	South West
R5	Large Lot Residential		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		542m	North
RE1	Public Recreation		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		581m	East
E4	Environmental Living		Eurobodalla Local Environmental Plan 2012	05/09/2014	05/09/2014	18/09/2020	Amendment No 4	589m	East
RU1	Primary Production		Eurobodalla Local Environmental Plan 2012	11/10/2019	11/10/2019	18/09/2020	Amendment No 11	686m	West
E2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		700m	North East
W1	Natural Waterways		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		705m	East
E2	Environmental Conservation		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		711m	East
E4	Environmental Living		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		735m	East
E4	Environmental Living		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		866m	South East

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
E4	Environmental Living		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		885m	North
RE1	Public Recreation		Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	18/09/2020		967m	South West

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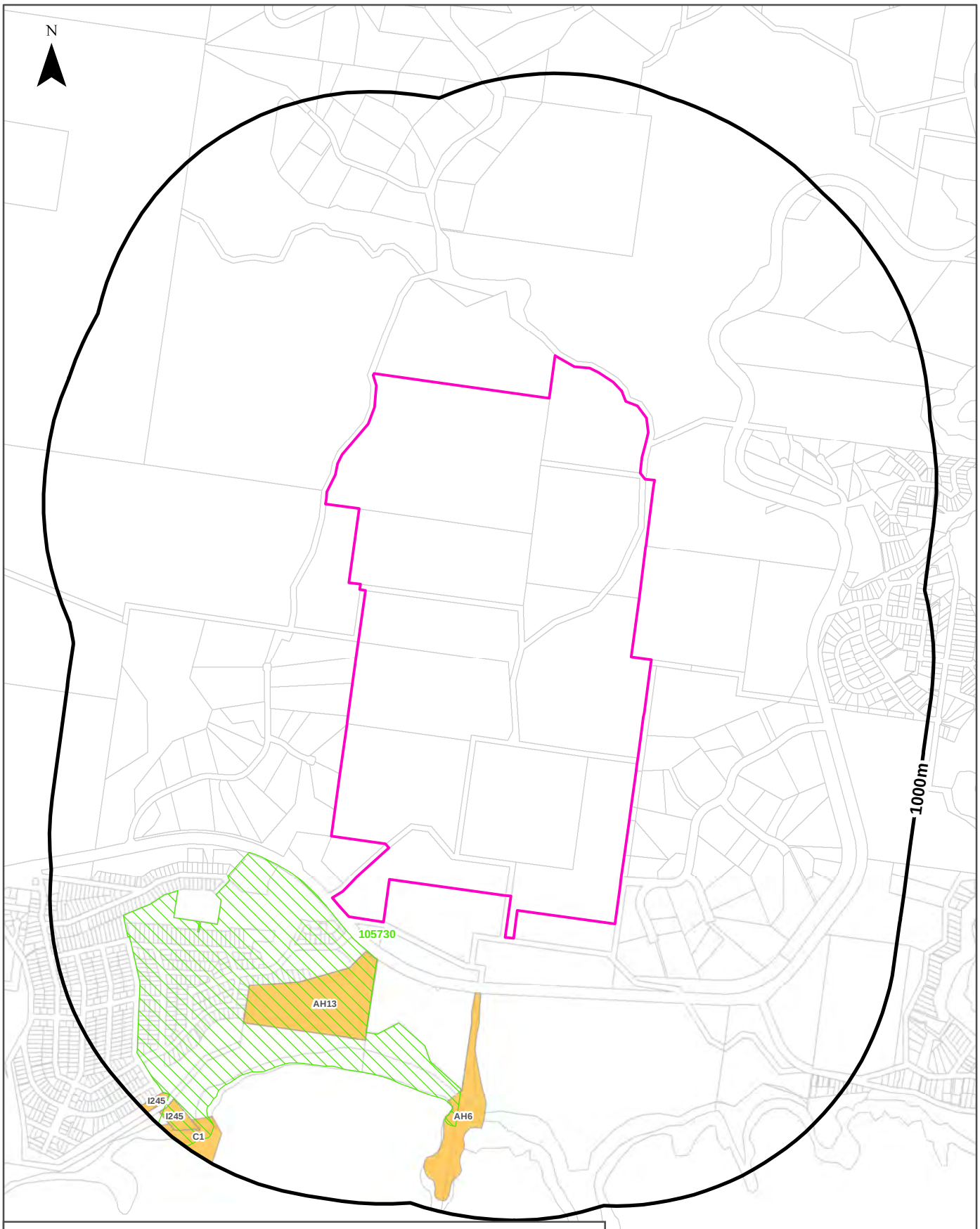
Heritage Items

Bevian Road, Rosedale, NSW 2536



Heritage

Bevian Road, Rosedale, NSW 2536

Commonwealth Heritage List

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

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

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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National Heritage List

What are the National Heritage List Items located within the dataset buffer?
Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
105730	Barlings Beach Area	Red Hill Pde, Tomakin NSW	1/08/271/0055	Indigenous	Place not included in NHL		35m	South West

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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State Heritage Register - Curtilages

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
N/A	No records in buffer							

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

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

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
AH13	Barlings Beach Aboriginal Place	Conservation Area - Aboriginal	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	11/10/2019	110m	South West
AH6	Barlings Beach & Island Complex Place Of Aboriginal Heritage Significan	Conservation Area - Aboriginal	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	11/10/2019	218m	South
C1	Melville Point Geological Site	Conservation Area - General	Local	Eurobodalla Local Environmental Plan 2012	07/11/2014	07/11/2014	11/10/2019	858m	South West

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I245	Melville Point Cemetery Memorial	Item - General	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	11/10/2019	894m	South West
I245	Melville Point Cemetery Memorial	Item - General	Local	Eurobodalla Local Environmental Plan 2012	20/07/2012	20/07/2012	11/10/2019	896m	South West

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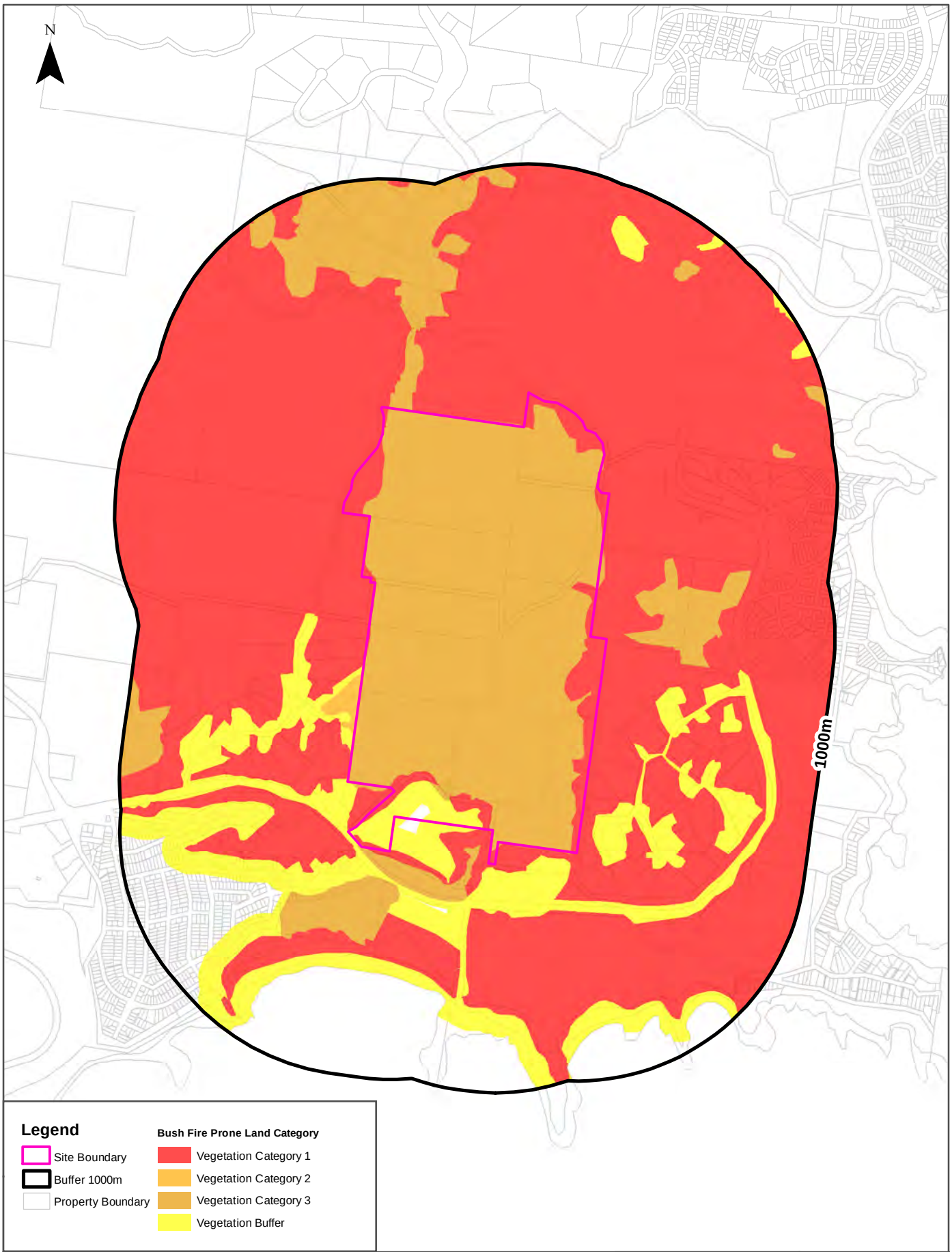
Natural Hazards - Bush Fire Prone Land

Bevian Road, Rosedale, NSW 2536



Data Sources: Bush Fire Prone Land: © NSW Rural Fire Service 2022. Property Boundaries: © Department Finance, Services & Innovation 2022

Coordinate System: GDA 1994 MGA Zone 56

Date: 31 May 2022

Natural Hazards

Bevian Road, Rosedale, NSW 2536

Bush Fire Prone Land

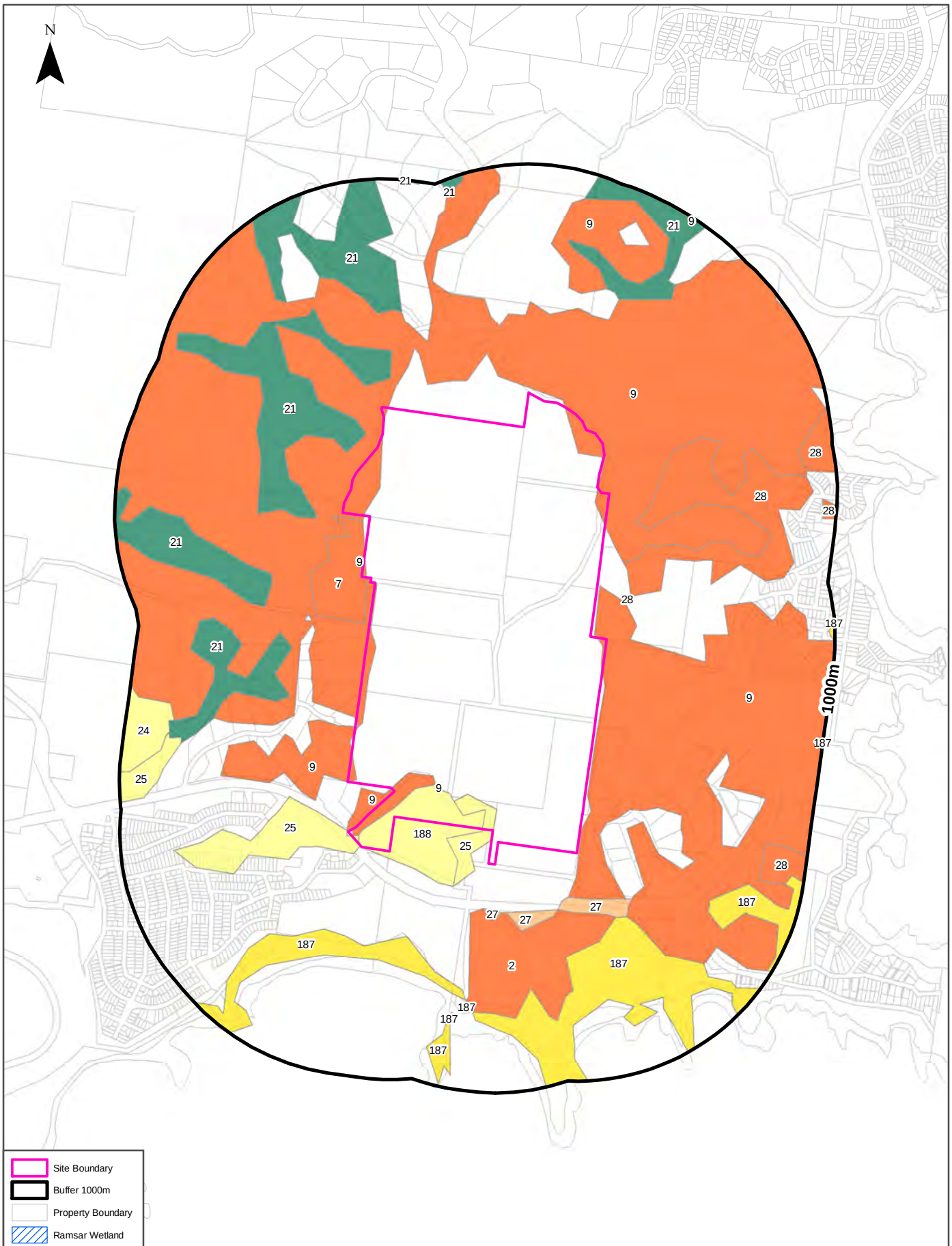
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
Vegetation Category 1	0m	On-site
Vegetation Category 3	0m	On-site
Vegetation Category 2	0m	On-site
Vegetation Buffer	0m	On-site

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

Ecological Constraints - Vegetation & Ramsar Wetlands

Bevian Road, Rosedale, NSW 2536



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

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2022

Coordinate System: GDA 1994 MGA Zone 56

Date: 31 May 2022

Ecological Constraints

Bevian Road, Rosedale, NSW 2536

Vegetation of the Southern Forests

What vegetation of the Southern Forests exists within the dataset buffer?

Veg Code	Formation	Class	Group	Distance	Direction
9	07 Dry Shrubby Forests	07b Coastal Dry Shrub Forests	Coastal Lowlands Cycad Dry Shrub Dry Forest	0m	On-site
188	14 Coastal Complex	14a Coastal Dune Complex	Sand Dune Wetlands	0m	On-site
25	14 Coastal Complex	14b Coastal Swamp Heath/Forest Complex	South Coast Swamp Forest Complex	0m	On-site
7	07 Dry Shrubby Forests	07b Coastal Dry Shrub Forests	Southern Coastal Hinterland Dry Shrub-Tussock Grass Forest	0m	On-site
21	02 Wet Sclerophyll Forests	02c South Coast/Hinterland Layered Shrub Forests	South Coast Foothills Moist Shrub Forest	69m	North West
28	07 Dry Shrubby Forests	07d Coastal Bangalay Dry Shrub forests	Coastal Sands Shrub-Fern Forest	96m	North East
2	07 Dry Shrubby Forests	07a SC Hinterland Dry Shrub Forests	Coastal Lowland Dry Shrub Forest	196m	South
27	11 Riparian Forests	11a Riparian Grass/Herb Forests	Ecotonal Coastal Swamp Forest	196m	South
187	08 Heath Forests, Mallee Low Forests, and Heathlands	08b Coastal/Hinterland Heath/Shrublands	Coastal Headland Heathlands	327m	South East
24	14 Coastal Complex	14b Coastal Swamp Heath/Forest Complex	Coastal Wet Heath Swamp Forest	790m	West

Vegetation of the Southern Forests: NSW Office of Environment and Heritage
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Ramsar Wetlands

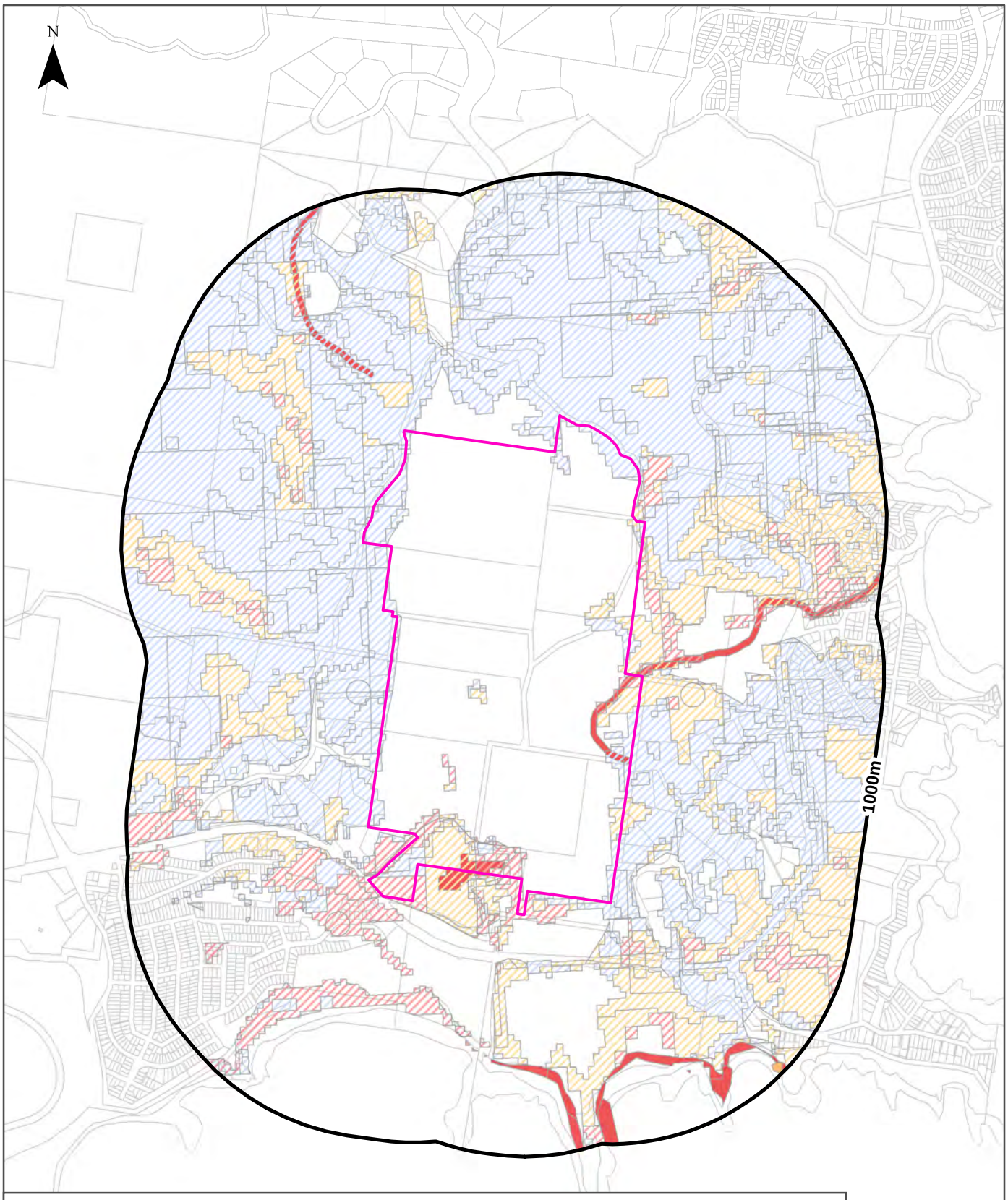
What Ramsar Wetland areas exist within the dataset buffer?

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

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

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

Bevian Road, Rosedale, NSW 2536



Ecological Constraints

Bevian Road, Rosedale, NSW 2536

Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	Low potential GDE - from regional studies	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Aquatic	High potential GDE - from national assessment	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	River		0m	On-site
Aquatic	High potential GDE - from national assessment	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Wetland	Unconsolidated sedimentary	0m	On-site
Terrestrial	High potential GDE - from regional studies	Deeply dissected sandstone plateaus.	Vegetation		0m	On-site
Terrestrial	Moderate potential GDE - from regional studies	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Terrestrial	High potential GDE - from regional studies	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Terrestrial	Low potential GDE - from regional studies	Deeply dissected sandstone plateaus.	Vegetation		122m	South
Terrestrial	Moderate potential GDE - from national assessment		Vegetation		567m	South
Terrestrial	High potential GDE - from national assessment	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		611m	South
Terrestrial	Moderate potential GDE - from national assessment	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		944m	South East
Terrestrial	Moderate potential GDE - from regional studies	Deeply dissected sandstone plateaus.	Vegetation		952m	East

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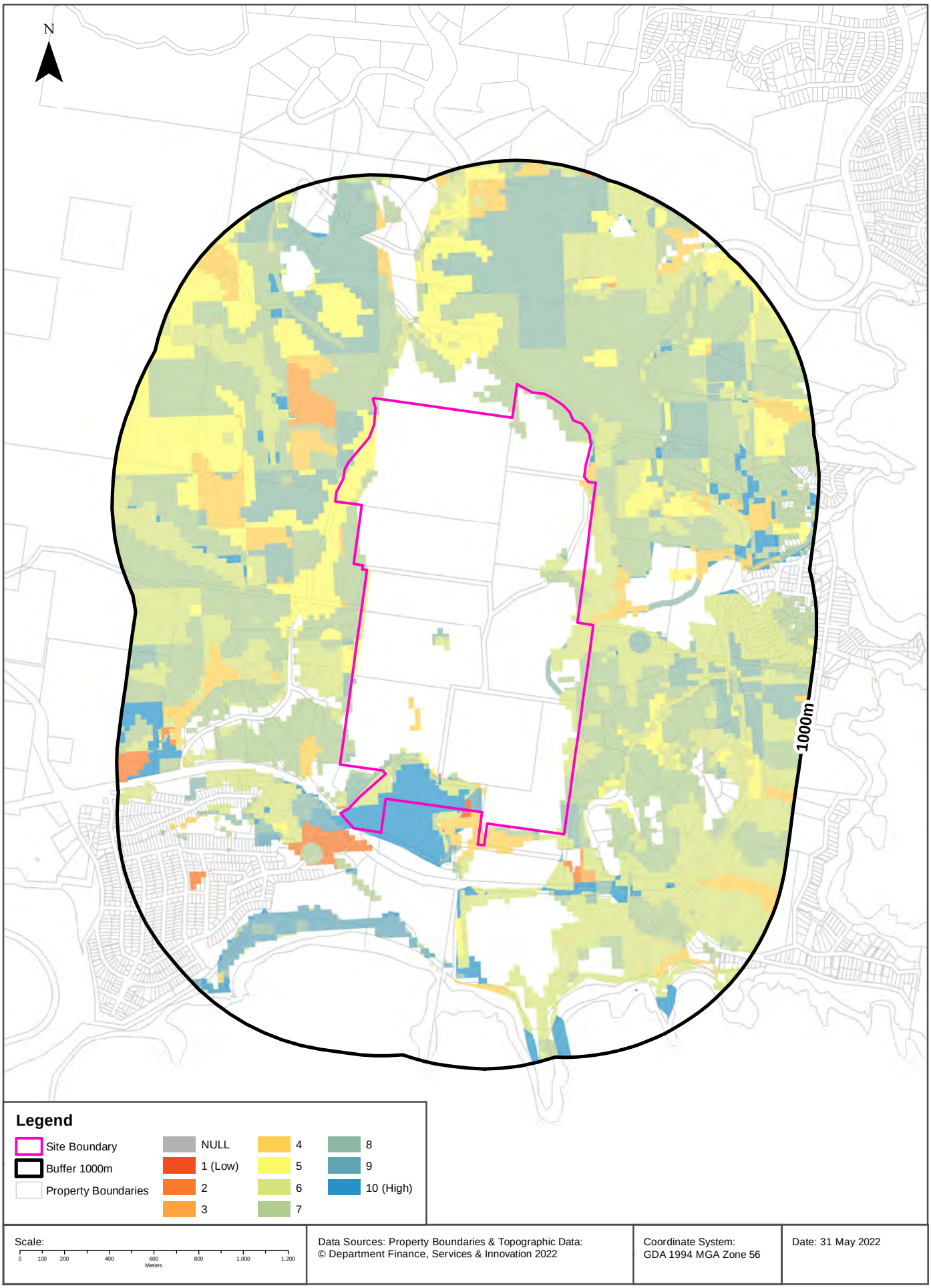
Ecological Constraints - Inflow Dependent Ecosystems Likelihood

Bevian Road, Rosedale, NSW 2536



Ecological Constraints

Bevian Road, Rosedale, NSW 2536

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Aquatic	8	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	River		0m	On-site
Aquatic	10	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Wetland	Unconsolidated sedimentary	0m	On-site
Terrestrial	6	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Terrestrial	9	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Terrestrial	4	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Terrestrial	1	Deeply dissected sandstone plateaus.	Vegetation		0m	On-site
Terrestrial	5	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Terrestrial	7	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Terrestrial	8	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Terrestrial	10	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		0m	On-site
Terrestrial	2	Deeply dissected sandstone plateaus.	Vegetation		9m	South West
Terrestrial	3	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		120m	North West
Terrestrial	6	Deeply dissected sandstone plateaus.	Vegetation		212m	South West
Aquatic	7	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	River		258m	North West
Terrestrial	2	Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		463m	East
Terrestrial	6		Vegetation		567m	South
Terrestrial	3		Vegetation		602m	South
Terrestrial		Deeply dissected steeply sloping plateau margin in metamorphics and granite. Bounded in the west by the Great Escarpment.	Vegetation		816m	South East
Terrestrial	10	Deeply dissected sandstone plateaus.	Vegetation		913m	South West
Terrestrial	7	Deeply dissected sandstone plateaus.	Vegetation		952m	East

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

Bevian Road, Rosedale, NSW 2536

NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Actitis hypoleucos	Common Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Anthochaera phrygia	Regent Honeyeater	Critically Endangered	Not Sensitive	Critically Endangered	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Ardenna grisea	Sooty Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ardenna pacifica	Wedge-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ardenna tenuirostris	Short-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Calidris alba	Sanderling	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Vulnerable	Category 3	Endangered	
Animalia	Aves	Calyptorhynchus lathami	Glossy Black-Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Diomedea exulans	Wandering Albatross	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Diomedea gibsoni	Gibson's Albatross	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haematopus fuliginosus	Sooty Oystercatcher	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haematopus longirostris	Pied Oystercatcher	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hydroprogne caspia	Caspian Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Ixobrychus flavicollis	Black Bittern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Lathamus discolor	Swift Parrot	Endangered	Category 3	Critically Endangered	
Animalia	Aves	Limosa lapponica	Bar-tailed Godwit	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Vulnerable	Category 3	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Macronectes giganteus	Southern Giant Petrel	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Melanodryas cucullata cucullata	Hooded Robin (south-eastern form)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Numenius madagascariensis	Eastern Curlew	Not Listed	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Numenius phaeopus	Whimbrel	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Onychoprion fuscata	Sooty Tern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pachycephala olivacea	Olive Whistler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Phoebetria fusca	Sooty Albatross	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Pterodroma solandri	Providence Petrel	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ptilinopus superbus	Superb Fruit-Dove	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Puffinus assimilis	Little Shearwater	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Rhipidura fuliginosa	New Zealand Fantail (Lord Howe Is. subsp.)	Presumed Extinct	Not Sensitive	Extinct	
Animalia	Aves	Stercorarius parasiticus	Arctic Jaeger	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Stercorarius pomarinus	Pomarine Jaeger	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sterna hirundo	Common Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Sternula albifrons	Little Tern	Endangered	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Thalassarche cauta	Shy Albatross	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Thalassarche melanophris	Black-browed Albatross	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Thalasseus bergii	Crested Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Thinornis cucullatus cucullatus	Eastern Hooded Dotterel	Critically Endangered	Not Sensitive	Vulnerable	
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Tyto tenebricosa	Sooty Owl	Vulnerable	Category 3	Not Listed	
Animalia	Mammalia	Arctocephalus pusillus doriferus	Australian Fur-seal	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Cercartetus nanus	Eastern Pygmy-possum	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Animalia	Mammalia	Eubalaena australis	Southern Right Whale	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Vulnerable	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Mammalia	Isoodon obesulus obesulus	Southern Brown Bandicoot (eastern)	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Megaptera novaeangliae	Humpback Whale	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Micronomus norfolkensis	Eastern Coastal Free-tailed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus australis	Little Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petauroides volans	Greater Glider	Not Listed	Not Sensitive	Vulnerable	
Animalia	Mammalia	Petaurus australis	Yellow-bellied Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascogale tapoatafa	Brush-tailed Phascogale	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Potorous tridactylus	Long-nosed Potoroo	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheathtail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Chelonia mydas	Green Turtle	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	Dermochelys coriacea	Leatherback Turtle	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Aldrovanda vesiculosa	Waterwheel Plant	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Correa baeuerlenii	Chef's Cap Correa	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Cryptostylis hunteriana	Leafless Tongue Orchid	Vulnerable	Category 2	Vulnerable	
Plantae	Flora	Eucalyptus kartzoffiana	Araluen Gum	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Genoplesium vernale	East Lynne Midge Orchid	Vulnerable	Category 2	Vulnerable	
Plantae	Flora	Haloragis exalata subsp. exalata	Square Raspwort	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Persicaria elatior	Tall Knotweed	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Pomaderris bodalla	Bodalla Pomaderris	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Rhodamnia rubescens	Scrub Turpentine	Critically Endangered	Not Sensitive	Critically Endangered	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Thesium australe	Austral Toadflax	Vulnerable	Not Sensitive	Vulnerable	

Data does not include NSW category 1 sensitive species.

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

Location Confidences

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

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

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Appendix D

Site Photographs

lanterra consulting	**SITE PHOTOGRAPHS**	
Client Name Walker Corporation	**Site Location** Bevian Road, Rosedale NSW	**Project No.** P22057

Photo No.	**Date**
1.	02/06/2022

Description

View south from location of former cheese factory with residential dwelling in background and marker indicating location of underground tank in foreground.

Photo No.	**Date**
2.	02/06/2022

Description

View to south across site from central ridgeline.

lanterra consulting	**SITE PHOTOGRAPHS**	
Client Name Walker Corporation	**Site Location** Bevian Road, Rosedale NSW	**Project No.** P22057

Photo No.	**Date**	
3.	02/06/2022	
Description View west beyond northermost dam		
Photo No.	**Date**	
4.	02/06/2022	
Description View south-east across western portion of former nursery compound.		

lanterra consulting	**SITE PHOTOGRAPHS**	
Client Name Walker Corporation	**Site Location** Bevian Road, Rosedale NSW	**Project No.** P22057

Photo No.	**Date**	
5.	02/06/2022	
Description Access road and woodchip stockpile within former nursery area.		
Photo No.	**Date**	
6.	20/01/2021	
Description One of two potential grass-covered stockpiles in former nursery compound.		

lanterra consulting	**SITE PHOTOGRAPHS**	
Client Name Walker Corporation	**Site Location** Bevian Road, Rosedale NSW	**Project No.** P22057

Photo No.	**Date**
7.	02/06/2022

Description

Pump house within former nursery compound.

Photo No.	**Date**
8.	02/06/2022

Description

Interior of pump house.

lanterra consulting	**SITE PHOTOGRAPHS**	
Client Name Walker Corporation	**Site Location** Bevian Road, Rosedale NSW	**Project No.** P22057

Photo No.	**Date**
9.	02/06/2022

Description

View south across former dairy, with concrete tank, steel cage and steel and metal piping.

Photo No.	**Date**
10.	02/06/2022

Description

Asbestos fragment on ground surface of former dairy.

lanterra consulting	**SITE PHOTOGRAPHS**

Client Name	**Site Location**	**Project No.**
Walker Corporation	Bevian Road, Rosedale NSW	P22057

Photo No.	**Date**
11.	02/06/2022

Description

View to the west from the former dairy.

Photo No.	**Date**
12.	02/06/2022

Description

Abandoned car on southern portion of Bevian Road.

lanterra consulting	**SITE PHOTOGRAPHS**	
Client Name Walker Corporation	**Site Location** Bevian Road, Rosedale NSW	**Project No.** P22057

Photo No.	**Date**
13.	02/06/2022

Description

Western section of Bevian (Burri) Swamp adjacent to Bevian Road.

Photo No.	**Date**
14.	02/06/2022

Description

Eastern bank of Bevian (Burri) Swamp.

lanterra consulting	**SITE PHOTOGRAPHS**	
Client Name Walker Corporation	**Site Location** Bevian Road, Rosedale NSW	**Project No.** P22057

Photo No.	**Date**	
15.	02/06/2022	
Description Newly constructed roads in eastern portion of site.		
Photo No.	**Date**	
16.	20/01/2021	
Description Large stockpiles and shipping container assumed to be associated with the construction of the new roads.		

Appendix E

Inputs
Select contaminant from list below
As
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	Arsenic generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	20	40
Urban residential and open public spaces	50	100
Commercial and industrial	80	160

Inputs
Select contaminant from list below
Naphthalene
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	Naphthalene generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	10	10
Urban residential and open public spaces	170	170
Commercial and industrial	370	370

Inputs
Select contaminant from list below
Cr_III
Below needed to calculate fresh and aged ACLs
Enter % clay (values from 0 to 100%)
10
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
7
or for aged ABCs only
Enter State (or closest State)
NSW
Enter traffic volume (high or low)
low

Outputs		
Land use	Cr III soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	130	140
Urban residential and open public spaces	230	410
Commercial and industrial	340	670

Inputs
Select contaminant from list below
Cu
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
10
Enter soil pH (calcium chloride method) (values from 1 to 14)
5.6
Enter organic carbon content (%OC) (values from 0 to 50%)
1
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
7
or for aged ABCs only
Enter State (or closest State)
NSW
Enter traffic volume (high or low)
low

Outputs		
Land use	Cu soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	55	65
Urban residential and open public spaces	95	160
Commercial and industrial	130	220

Inputs
Select contaminant from list below
DDT
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	DDT generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	3	3
Urban residential and open public spaces	180	180
Commercial and industrial	640	640

Inputs
Select contaminant from list below
Naphthalene
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	Naphthalene generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	10	10
Urban residential and open public spaces	170	170
Commercial and industrial	370	370

Inputs
Select contaminant from list below
Ni
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
10
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
7
or for aged ABCs only
Enter State (or closest State)
NSW
Enter traffic volume (high or low)
low

Outputs		
Land use	Ni soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	35	35
Urban residential and open public spaces	80	170
Commercial and industrial	130	290

Inputs
Select contaminant from list below
Pb
Below needed to calculate fresh and aged ACLs
Below needed to calculate fresh and aged ABCs
or for fresh ABCs only
or for aged ABCs only

Outputs		
Land use	Lead generic EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	110	470
Urban residential and open public spaces	270	1100
Commercial and industrial	440	1800

Inputs
Select contaminant from list below
Zn
Below needed to calculate fresh and aged ACLs
Enter cation exchange capacity (silver thiourea method) (values from 0 to 100 cmolc/kg dwt)
10
Enter soil pH (calcium chloride method) (values from 1 to 14)
5.6
Below needed to calculate fresh and aged ABCs
Measured background concentration (mg/kg). Leave blank if no measured value
or for fresh ABCs only
Enter iron content (aqua regia method) (values from 0 to 50%) to obtain estimate of background concentration
7
or for aged ABCs only
Enter State (or closest State)
NSW
Enter traffic volume (high or low)
low

Outputs		
Land use	Zn soil-specific EILs (mg contaminant/kg dry soil)	
	Fresh	Aged
National parks and areas of high conservation value	60	140
Urban residential and open public spaces	150	370
Commercial and industrial	210	530

Appendix F

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BORE LOG
BH1

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 55
EASTING: 247,327.9 mE
NORTHING: 6,033,767.2 mN
ELEVATION: 85.0 AHD
DATE DRILLED: 11/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH1 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown, moist, soft, moderate plasticity	Topsoil: grassed surface	85
						GC	**(0.2) Gravelly Clayey SILT:** dark brown, moist, soft, moderate plasticity	Natural: traces of sedimentary and volcanic rocks Quartz fragments	
		BH1 0.3-0.4	0.0	Y					
0.5								EOH at 0.4m Limit of investigation (refusal)	
1.0									84
1.5									

Comments

LOGGED BY L.Baeza
CHECKED BY C.Gunton

lanterra consulting

BORE LOG
BH2

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,476.4 mE
NORTHING: 6,033,746.0 mN
ELEVATION: 82.0 AHD
DATE DRILLED: 11/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH2 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface	82
								Traces of volcanic rocks	
		BH2 0.2-0.3	0.0	Y					
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									81
1.5									

Comments

LOGGED BY L.Baeza
CHECKED BY C.Gunton

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BORE LOG
BH3

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,624.9 mE
NORTHING: 6,033,724.8 mN
ELEVATION: 68.0 AHD
DATE DRILLED: 11/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH3 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, dry, soft	Topsoil: grassed surface	68
						GM	**(0.2) Gravelly Silty SAND:** brown, dry-moist, soft	Natural: fragments of weathered siltstone	
0.5		BH3 0.4-0.5	0.0	Y				EOH at 0.5m Limit of investigation (target depth)	
1.0									67
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH4

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,773.4 mE
NORTHING: 6,033,703.6 mN
ELEVATION: 48.0 AHD
DATE DRILLED: 11/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH4 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface	48
		BH4 0.1-0.2	0.0	Y				Natural: traces of weathered siltstone, slate and volcanic rocks	
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									47
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH5

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,752.2 mE
NORTHING: 6,033,555.1 mN
ELEVATION: 28.0 AHD
DATE DRILLED: 11/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Wagonga Group	BH5 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** dark brown, dry-moist	Topsoil: grassed surface	28
						GM	**(0.2) Gravelly Silty SAND:** brown, dry-moist, soft	Natural: fragments of sedimentary and volcanic rocks	
0.5		BH5 0.4-0.5	0.0	Y				EOH at 0.5m Limit of investigation (target depth)	
1.0									27
1.5									

Comments

LOGGED BY L.Baeza
CHECKED BY C.Gunton

lanterra consulting

BORE LOG
BH6

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,603.7 mE
NORTHING: 6,033,576.3 mN
ELEVATION: 40.0 AHD
DATE DRILLED: 11/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH6 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface	40
		BH6 0.2-0.3	0.0	Y		GM	**(0.2) Gravelly Silty SAND:** brown, dry-moist, soft	Natural: fragments of sedimentary and volcanic rocks	
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									39
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH7

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,455.2 mE
NORTHING: 6,033,597.5 mN
ELEVATION: 61.0 AHD
DATE DRILLED: 11/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH7 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown, dry, soft	Topsoil: grassed surface	61
						GM	**(0.2) Gravelly Sandy SILT:** brown-dark brown, dry-moist, soft	Natural: traces of weathered sedimentary rock fragments	
		BH7 0.3-0.4	0.0	Y					
								EOH at 0.4m Limit of investigation (refusal)	
0.5									
1.0									60
1.5									

Comments

LOGGED BY L.Baeza
CHECKED BY C.Gunton

lanterra consulting

BORE LOG
BH8

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,264.4 mE
NORTHING: 6,033,321.7 mN
ELEVATION: 45.0 AHD
DATE DRILLED: 11/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH8 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, wet, soft, high plasticity	Topsoil: grassed surface	45
						CL	**(0.2) CLAY:** brown, moist, soft, moderate plasticity	Residual soil	
		BH8 0.4-0.5	0.0	Y					
0.5								EOH at 0.5m Limit of investigation (target depth)	
1.0									44
1.5									

Comments

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BORE LOG
BH9

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,285.5 mE
NORTHING: 6,033,470.2 mN
ELEVATION: 49.0 AHD
DATE DRILLED: 11/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH9 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown, wet, soft, high plasticity	Topsoil: grassed surface	49
		BH9 0.3-0.4	0.0	Y					
0.5								EOH at 0.4m Limit of investigation (refusal)	
1.0									48
1.5									

Comments

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BORE LOG
BH10

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,306.7 mE
NORTHING: 6,033,618.7 mN
ELEVATION: 60.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH10 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown, moist-wet, soft	Topsoil, grassed surface	60
		BH10 0.3-0.4	0.0	Y					
0.5								EOH at 0.4m Limit of investigation (refusal) Traces of sedimentary rock fragments at 0.4m	
1.0									59
1.5									

Comments

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BORE LOG
BH11

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,153.1 mE
NORTHING: 6,033,447.1 mN
ELEVATION: 78.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH11 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, dry, soft		78
						GM	**(0.1) Gravelly Sandy SILT:** brown, dry, soft		
		BH11 0.2-0.3	0.0	Y				Fragments of sedimentary rocks	
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									77
1.5									

Comments

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BORE LOG
BH12

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,412.9 mE
NORTHING: 6,033,300.5 mN
ELEVATION: 37.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Wagonga Group	BH12 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, wet, soft	Topsoil: grassed surface	37
						GC	**(0.3) Gravelly Sandy CLAY:** brown, moist, soft, moderate plasticity		
0.5		BH12 0.4-0.5	0.0	Y				EOH at 0.5m Limit of investigation (refusal)	
1.0									36
1.5									

Comments

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BORE LOG
BH13

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,434.0 mE
NORTHING: 6,033,449.0 mN
ELEVATION: 45.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH13 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, moist, soft	Topsoil, grassed surface	45
		BH13 0.2-0.3	0.0	Y		GM	**(0.2) Gravelly Sandy SILT:** dark brown, moist, soft	Traces of sedimentary rock fragments	
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									44
1.5									

Comments

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BORE LOG
BH14

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,582.5 mE
NORTHING: 6,033,427.8 mN
ELEVATION: 52.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH14 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, moist, soft	Topsoil, grassed surface, abundant organic matter	52
						GM	**(0.2) Gravelly Sandy SILT:** brown-grey, moist, soft	Fragments of weathered rocks	
		BH14 0.3-0.4	0.0	Y					
								EOH at 0.4m Limit of investigation (refusal)	
0.5									
1.0									51
1.5									

Comments

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BORE LOG
BH15

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,731.0 mE
NORTHING: 6,033,406.6 mN
ELEVATION: 47.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH15 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** brown, dry-moist, soft	Grassed surface, fragments of weathered sedimentary rocks observed (increases with depth)	47
		BH15 0.2-0.3	0.0	Y					
0.5								EOH at 0.3m Limit of investigation (refusal)	
1.0									46
1.5									

Comments

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BORE LOG
BH16

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,879.5 mE
NORTHING: 6,033,385.4 mN
ELEVATION: 30.0 AHD
DATE DRILLED: 12/12/12023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Wagonga Group	BH16 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** brown, dry-moist, soft	Traces of weathered sedimentary rock fragments	30
						CL	**(0.3) CLAY:** brown-orange, dry-moist, moderate plasticity	Weathered bedrock (clay layer)	
0.5		BH16 0.4-0.5	0.0	Y				EOH at 0.5m Limit of investigation (target depth)	
1.0									29
1.5									

Comments

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BORE LOG
BH17

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 248,028.0 mE
NORTHING: 6,033,364.2 mN
ELEVATION: 17.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH17 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, moist, soft	Topsoil	17
		BH17 0.2-0.3	0.0	Y		GM	**(0.2) Gravelly Sandy SILT:** brown, moist, soft	Traces of weathered sedimentary rocks EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									16
1.5									

Comments

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lanterra consulting	BORE LOG BH18	PROJECT NUMBER: P23158 CLIENT NAME: Walker Rosedale Pty Ltd ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW	COORDINATE SYSTEM: GDA2020 / MGA zone 56
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd	EASTING: 248,176.5 mE
DRILL METHOD: Hand Auger	NORTHING: 6,033,343.1 mN
DIAMETER: 150mm	ELEVATION: 12.0 AHD
HOLE DEPTH: 0.5m	DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	BH18 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, dry-moist, soft	Topsoil	12
						ML	**(0.3) Sandy Clayey SILT:** brown, dry-moist, soft	Traces of sedimentary rock fragments	
0.5		BH18 0.4-0.5	0.0	Y				EOH at 0.5m Limit of investigation (target depth)	
1.0									11
1.5									

Comments	LOGGED BY L.Baeza CHECKED BY C.Gunton

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BORE LOG
BH19

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,943.1 mE
NORTHING: 6,033,830.9 mN
ELEVATION: 43.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH19 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly SILT:** pale brown, dry, soft		43
		BH19 0.1-0.2	0.0	Y				Sedimentary bedrock	
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									42
1.5									

Comments

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BORE LOG
BH20

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 248,145.8 mE
NORTHING: 6,033,560.8 mN
ELEVATION: 19.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Wagonga Group	BH20 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** brown, dry-moist, soft	Topsoil	19
		BH20 0.2-0.3	0.0	Y		GM	**(0.2) Gravelly Silty SAND:** pale brown, dry-moist, soft	EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									18
1.5									

Comments

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BORE LOG
BH21

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 248,070.4 mE
NORTHING: 6,033,661.2 mN
ELEVATION: 41.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH21 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** brown-dark brown, dry-moist, soft		41
		BH21 0.1-0.2	0.0	Y		GM	**(0.1) Gravelly Sandy SILT:** brown, dry, hard	Weathered bedrock	
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									40
1.5									

Comments

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BORE LOG
BH22

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,921.9 mE
NORTHING: 6,033,682.4 mN
ELEVATION: 25.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH22 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** brown, dry-moist, soft	Topsoil	25
						GM	**(0.2) Gravelly Silty SAND:** brown-pale brown, dry-moist, soft		
0.5		BH22 0.4-0.5	0.0	Y				EOH at 0.5m Limit of investigation (target depth)	
1.0									24
1.5									

Comments

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BORE LOG
BH23

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,900.7 mE
NORTHING: 6,033,533.9 mN
ELEVATION: 21.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposit*	BH23 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown, moist-wet, soft	Topsoil	21
						CL	**(0.2) CLAY:** brown-orange, dry-moist, soft, moderate plasticity		
		BH23 0.4-0.5	0.0	Y					
0.5								EOH at 0.5m Limit of investigation (target depth)	
1.0									20
1.5									

Comments

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BORE LOG
BH24

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 248,049.2 mE
NORTHING: 6,033,512.7 mN
ELEVATION: 20.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH24 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** brown-grey, dry-moist, soft		20
		BH24 0.2-0.3	0.0	Y		SM	**(0.2) Sandy SILT:** brown-pale brown, dry, soft	Traces of quartz fragments EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									19
1.5									

Comments

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BORE LOG
BH25

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,561.4 mE
NORTHING: 6,033,279.3 mN
ELEVATION: 45.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH25 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, dry-moist, soft	Topsoil	45
						GM	**(0.2) Gravelly Sandy SILT:** brown-orange, dry-moist, soft	Traces of sedimentary rock fragments	
		BH25 0.3-0.4	0.0	Y					
0.5								EOH at 0.4m Limit of investigation (refusal)	
1.0									44
1.5									

Comments

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BORE LOG
BH26

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,540.4 mE
NORTHING: 6,033,145.3 mN
ELEVATION: 24.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	BH26 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, moist, soft	Topsoil	24
		BH26 0.2-0.3	0.0	Y		GC	**(0.2) Gravelly Clayey SILT:** dark brown-orange, dry-moist, soft	Traces if sedimentary rock fragments	
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									23
1.5									

Comments

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BORE LOG
BH27

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,685.2 mE
NORTHING: 6,033,139.7 mN
ELEVATION: 22.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	BH27 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, moist, soft	Topsoil	22
						ML	**(0.2) Sandy Clayey SILT:** dark brown-orange, dry-moist, soft	Traces if sedimentary rock fragments	
0.5		BH27 0.4-0.5	0.0	Y				EOH at 0.5m Limit of investigation (target depth)	
1.0									21
1.5									

Comments

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BORE LOG
BH28

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,709.8 mE
NORTHING: 6,033,258.1 mN
ELEVATION: 42.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH28 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, moist, soft	Big fragments of rocks (up to 20cm)	42
		BH28 0.1-0.2	0.0	Y					
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									41
1.5									

Comments

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BORE LOG
BH29

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,858.3 mE
NORTHING: 6,033,236.9 mN
ELEVATION: 26.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH29 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown, dry-moist, soft	Topsoil	26
						CL	**(0.3) CLAY:** dark brown-orange, dry-moist, soft, moderate plasticity		
		BH29 0.4-0.5	0.0	Y					
0.5								EOH at 0.5m Limit of investigation (target depth)	
1.0									25
1.5									

Comments

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BORE LOG
BH30

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 248,006.8 mE
NORTHING: 6,033,215.7 mN
ELEVATION: 12.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Wagonga Group	BH30 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** brown-grey, wet, soft	Topsoil	12
						CL	**(0.3) Silty CLAY:** brown-yellow, dry-moist, soft, moderate plasticity		
		BH30 0.4-0.5	0.0	Y					
0.5								EOH at 0.5m Limit of investigation (target depth)	
1.0									11
1.5									

Comments

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BORE LOG
BH31

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,830.0 mE
NORTHING: 6,033,064.0 mN
ELEVATION: 22.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Wagonga Group	BH31 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown, dry-moist, soft	Topsoil	22
						CL	**(0.3) CLAY:** brown-orange, dry-moist, soft, moderate plasticity		
		BH31 0.4-0.5	0.0	Y					
0.5								EOH at 0.5m Limit of investigation (target depth)	
1.0									21
1.5									

Comments

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BORE LOG
BH32

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,985.7 mE
NORTHING: 6,033,067.3 mN
ELEVATION: 21.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH32 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** pale brown, dry, soft	Topsoil Burnt trees in sampling area	21
		BH32 0.1-0.2	0.0	Y		CL	**(0.1) Silty CLAY:** brown-orange, dry, hard		
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									20
1.5									

Comments

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BORE LOG
BH33

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 248,134.1 mE
NORTHING: 6,033,046.1 mN
ELEVATION: 19.0 AHD
DATE DRILLED: 12/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH33 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** brown, dry, soft	Topsoil	19
						GM	**(0.1) Gravelly Sandy SILT:** pale brown, dry-moist, soft		
		BH33 0.2-0.3	0.0	Y				Fragments of volcanic and sedimentary rocks observed	
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									18
1.5									

Comments

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BORE LOG
BH34

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,829.0 mE
NORTHING: 6,032,931.9 mN
ELEVATION: 39.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH34 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface Traces of weathered siltstone fragments	39
						GC	**(0.2) Gravelly Clayey SILT:** brown-orange, dry-moist, soft	Fragments of siltstone in soil	
		BH34 0.3-0.4	0.0	Y					
0.5								EOH at 0.4m Limit of investigation (refusal)	
1.0									38
1.5									

Comments

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BORE LOG
BH35

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,667.5 mE
NORTHING: 6,032,961.1 mN
ELEVATION: 39.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH35 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, dry-moist, soft	Grassed surface Traces of sedimentary rock fragments	39
		BH35 0.2-0.3	0.0	Y		GC	**(0.2) Gravelly Clayey SILT:** pale brown, dry-moist, soft	EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									38
1.5									

Comments

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lanterra consulting	BORE LOG BH36	PROJECT NUMBER: P23158 CLIENT NAME: Walker Rosedale Pty Ltd ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW	COORDINATE SYSTEM: GDA2020 / MGA zone 56
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd	EASTING: 247,519.0 mE
DRILL METHOD: Hand Auger	NORTHING: 6,032,982.3 mN
DIAMETER: 150mm	ELEVATION: 44.0 AHD
HOLE DEPTH: 0.5m	DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Wagonga Group	BH36 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, dry-moist, soft	Topsoil	44
						CL	**(0.3) CLAY:** brown-orange, dry-moist, soft, moderate plasticity		
0.5		BH36 0.4-0.5	0.0	Y				EOH at 0.5m Limit of investigation (target depth)	
1.0									43
1.5									

Comments	LOGGED BY L.Baeza CHECKED BY C.Gunton

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BORE LOG
BH37

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,370.5 mE
NORTHING: 6,033,003.5 mN
ELEVATION: 35.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH37 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** dark brown, dry, soft	Grassed surface	35
		BH37 0.1-0.2	0.0	Y				Sedimentary rock clasts observed	
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									34
1.5									

Comments

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BORE LOG
BH38

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,223.2 mE
NORTHING: 6,033,016.1 mN
ELEVATION: 42.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Wagonga Group	BH38 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface	42
		BH38 0.2-0.3	0.0	Y		GC	**(0.2) Gravelly Clayey SILT:** dark brown, moist, soft	Fragments of sedimentary rocks observed	
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									41
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH39

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,391.7 mE
NORTHING: 6,033,152.0 mN
ELEVATION: 31.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH39 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, moist, soft	Topsoil: grassed surface	31
						GC	**(0.2) Gravelly Silty CLAY:** dark brown, moist, soft, moderate plasticity	Traces of sedimentary rock fragments	
		BH39 0.3-0.4	0.0	Y					
0.5								EOH at 0.4m Limit of investigation (refusal)	
1.0									30
1.5									

Comments

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BORE LOG
BH40

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,243.2 mE
NORTHING: 6,033,173.2 mN
ELEVATION: 51.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Wagonga Group	BH40 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface	51
0.5		BH40 0.4-0.5	0.0	Y		SC	**(0.4) Sandy CLAY:** brown-orange, dry-moist, soft, moderate plasticity	EOH at 0.5m Limit of investigation (target depth)	
1.0									50
1.5									

Comments

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BORE LOG
BH41

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,200.8 mE
NORTHING: 6,032,876.2 mN
ELEVATION: 54.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH41 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown, dry, soft	Topsoil: grassed surface Traces of sedimentary rock fragments	54
		BH41 0.2-0.3	0.0	Y					
0.5								EOH at 0.3m Limit of investigation (refusal)	
1.0									53
1.5									

Comments

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BORE LOG
BH42

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,349.3 mE
NORTHING: 6,032,855.0 mN
ELEVATION: 52.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH42 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface Traces of sedimentary rock fragments	52
						GC	**(0.2) Gravelly Clayey SILT:** brown, dry-moist, soft	Fragments of sedimentary rocks	
		BH42 0.3-0.4	0.0	Y					
								EOH at 0.4m Limit of investigation (refusal)	
0.5									
1.0									51
1.5									

Comments

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lanterra consulting	BORE LOG BH43	PROJECT NUMBER: P23158 CLIENT NAME: Walker Rosedale Pty Ltd ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW	COORDINATE SYSTEM: GDA2020 / MGA zone 56
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd	EASTING: 247,497.8 mE
DRILL METHOD: Hand Auger	NORTHING: 6,032,833.8 mN
DIAMETER: 150mm	ELEVATION: 60.0 AHD
HOLE DEPTH: 0.2m	DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH43 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface	60
		BH43 0.1-0.2	0.0	Y				Traces of sedimentary rock fragments	
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									59
1.5									

Comments	LOGGED BY L.Baeza CHECKED BY C.Gunton

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BORE LOG
BH44

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,646.3 mE
NORTHING: 6,032,812.6 mN
ELEVATION: 49.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Wagonga Group	BH44 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface (vegetation)	49
						CL	**(0.2) Silty CLAY:** brown-orange, dry-moist, soft, moderate plasticity		
0.5		BH44 0.4-0.5	0.0	Y				EOH at 0.5m Limit of investigation (target depth)	
1.0									48
1.5									

Comments

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BORE LOG
BH45

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,328.1 mE
NORTHING: 6,032,706.5 mN
ELEVATION: 21.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH45 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** dark brown, dry, soft		21
		BH45 0.1-0.2	0.0	N				Presence of slate fragments	
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									20
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH46

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,179.6 mE
NORTHING: 6,032,727.7 mN
ELEVATION: 21.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	BH46 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, moist-wet, soft	Topsoil: drainage influence	21
						GC	**(0.3) Gravelly Silty CLAY:** pale brown-grey, moist, soft, moderate plasticity		
0.5		BH46 0.4-0.5	0.0	N				EOH at 0.5m Limit of investigation (target depth)	
1.0									20
1.5									

Comments

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BORE LOG
BH47

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,158.4 mE
NORTHING: 6,032,579.2 mN
ELEVATION: 20.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH47 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, dry, soft	Topsoil: grassed surface (vegetation) Traces of sedimentary rocks	20
						GC	**(0.2) Gravelly Clayey SILT:** brown, dry, soft	Fragments of sedimentary rocks	
		BH47 0.3-0.4	0.0	N					
0.5								EOH at 0.4m Limit of investigation (refusal)	
1.0									19
1.5									

Comments

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BORE LOG
BH48

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,137.2 mE
NORTHING: 6,032,430.7 mN
ELEVATION: 35.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH48 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** brown-pale brown, dry, soft	Topsoil	35
		BH48 0.2-0.3	0.0	N		SM	**(0.2) Sandy SILT:** brown-pale brown, dry, soft	Traces of sedimentary rock fragments	
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									34
1.5									

Comments

LOGGED BY L.Baeza
CHECKED BY C.Gunton

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BORE LOG
BH49

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,116.0 mE
NORTHING: 6,032,282.2 mN
ELEVATION: 32.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH49 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** pale brown, dry, soft	Tree area	32
		BH49 0.1-0.2	0.0	N		ML	**(0.1) Clayey SILT:** brown-orange, dry, hard		
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									31
1.5									

Comments

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BORE LOG
BH50

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,264.5 mE
NORTHING: 6,032,261.0 mN
ELEVATION: 15.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH50 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface (vegetation) Fragments of angular quartz and sedimentary rocks	15
		BH50 0.2-0.3	0.0	N				EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									14
1.5									

Comments

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BORE LOG
BH51

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,285.7 mE
NORTHING: 6,032,409.5 mN
ELEVATION: 17.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH51 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface (vegetation)	17
						ML	**(0.1) Clayey SILT:** dark brown, dry-moist, soft	Traces of sedimentary rock fragments	
		BH51 0.2-0.3	0.0	N					
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									16
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH52

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,306.9 mE
NORTHING: 6,032,558.0 mN
ELEVATION: 14.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH52 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown, moist-wet, soft	Topsoil: drainage influence	14
						CL	**(0.3) CLAY:** brown-yellow, moist, soft, moderate plasticity		
		BH52 0.4-0.5	0.0	N					
0.5								EOH at 0.5m Limit of investigation (target depth)	
1.0									13
1.5									

Comments

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CHECKED BY C.Gunton

lanterra consulting	BORE LOG BH53	PROJECT NUMBER: P23158 CLIENT NAME: Walker Rosedale Pty Ltd ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW	COORDINATE SYSTEM: GDA2020 / MGA zone 56
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd	EASTING: 247,455.4 mE
DRILL METHOD: Hand Auger	NORTHING: 6,032,536.8 mN
DIAMETER: 150mm	ELEVATION: 18.0 AHD
HOLE DEPTH: 0.5m	DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Wagonga Group	BH53 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, moist, soft	Topsoil: grassed surface (dense vegetation)	18
						CL	**(0.3) CLAY:** brown-orange, dry-moist, soft, moderate plasticity		
0.5		BH53 0.4-0.5	0.0	N				EOH at 0.5m Limit of investigation (target depth)	
1.0									17
1.5									

Comments	LOGGED BY L.Baeza CHECKED BY C.Gunton

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BORE LOG
BH54

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,476.6 mE
NORTHING: 6,032,685.3 mN
ELEVATION: 30.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH54 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface (dense vegetation)	30
		BH54 0.1-0.2	0.0	N					
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									29
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH55

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,794.8 mE
NORTHING: 6,032,791.4 mN
ELEVATION: 30.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH55 0.0-0.1	0.0	Y		GC	**(0.0) Gravelly Clayey SILT:** dark brown, moist-wet, soft	Topsoil: grassed surface	30
		BH55 0.2-0.3	0.0	N		GC	**(0.2) Gravelly Clayey SILT:** pale brown, moist-wet, soft, low plasticity	Traces if sedimentary rock fragments EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									29
1.5									

Comments

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BORE LOG
BH56

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,773.6 mE
NORTHING: 6,032,643.0 mN
ELEVATION: 34.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH56 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, dry, soft	Topsoil: grassed surface	34
						ML	**(0.2) Clayey SILT:** pale brown, dry-moist, soft		
		BH56 0.3-0.4	0.0	N					
0.5								EOH at 0.4m Limit of investigation (refusal)	
1.0									33
1.5									

Comments

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BORE LOG
BH57

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,900.9 mE
NORTHING: 6,032,473.3 mN
ELEVATION: 20.0 AHD
DATE DRILLED: 13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH57 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** pale brown, moist-wet, soft, moderate plasticity	Topsoil: grassed surface	20
						SC	**(0.2) Sandy CLAY:** brown-orange, dry-moist, soft, moderate plasticity	Traces of rock fragments	
		BH57 0.3-0.4	0.0	N					
								EOH at 0.4m Limit of investigation (refusal)	
0.5									
1.0									19
1.5									

Comments

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BORE LOG
BH58

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 248,091.8 mE
NORTHING: 6,032,749.1 mN
ELEVATION: 14.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH58 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** pale brown, dry, soft	Dense vegetation	14
		BH58 0.2-0.3	0.0	N					
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									13
1.5									

Comments

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BORE LOG
BH59

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 248,070.6 mE
NORTHING: 6,032,600.6 mN
ELEVATION: 23.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH59 0.0-0.1	0.0	Y		SM	**(0.0) Silty SAND:** pale brown, dry, soft	Dense vegetation	23
		BH59 0.1-0.2	0.0	N					
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									22
1.5									

Comments

LOGGED BY L.Baeza
CHECKED BY C.Gunton

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BORE LOG
BH60

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 248,049.4 mE
NORTHING: 6,032,452.1 mN
ELEVATION: 28.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH60 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** pale brown, dry, soft	Traces of sedimentary rock fragments	28
						ML	**(0.1) Clayey SILT:** pale brown, dry, soft		
		BH60 0.2-0.3	0.0	N					
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									27
1.5									

Comments

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BORE LOG
BH61

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,752.4 mE
NORTHING: 6,032,494.5 mN
ELEVATION: 62.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	BH61 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface	62
						GC	**(0.2) Gravelly Clayey SAND:** grey-brown, moist-wet, soft, high plasticity	Increase in soil clay content with depth	
0.5		BH61 0.4-0.5	0.0	N				EOH at 0.5m Limit of investigation (target depth)	
1.0									61
1.5									

Comments

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BORE LOG
BH62

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,731.2 mE
NORTHING: 6,032,346.0 mN
ELEVATION: 6.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	BH62 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown-grey, moist-wet, soft		6
						SC	**(0.2) Sandy CLAY:** brown-yellow, moist, soft, moderate plasticity	Increase in soil clay content with depth	
0.5		BH62 0.4-0.5	0.0	N				EOH at 0.5m Limit of investigation (target depth)	
1.0									5
1.5									

Comments

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BORE LOG
BH63

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,879.7 mE
NORTHING: 6,032,324.8 mN
ELEVATION: 8.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	BH63 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown-grey, moist, soft	Topsoil: grassed surface	8
						CL	**(0.2) CLAY:** brown-yellow, dry-moist, soft, moderate plasticity		
		BH63 0.4-0.5	0.0	N					
0.5								EOH at 0.5m Limit of investigation (target depth)	
1.0									7
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH64

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 248,028.2 mE
NORTHING: 6,032,303.6 mN
ELEVATION: 12.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH64 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown-brown, moist, soft, moderate plasticity		12
		BH64 0.1-0.2	0.0	N				Traces of sedimentary rocks observed in soil	
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									11
1.5									

Comments

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BORE LOG
BH65

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 248,007.0 mE
NORTHING: 6,032,155.1 mN
ELEVATION: 18.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Bogolo Formation*	BH65 0.0-0.1	0.0	Y		GC	**(0.0) Gravelly Clayey SILT:** dark brown, moist, soft		18
						GC	**(0.2) Gravelly Sandy CLAY:** grey-brown-orange, moist, soft, moderate plasticity	Increase in soil clay content with depth	
		BH65 0.4-0.5	0.0	N					
0.5								EOH at 0.5m Limit of investigation (target depth)	
1.0									17
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH66

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,858.5 mE
NORTHING: 6,032,176.3 mN
ELEVATION: 8.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Bogolo Formation*	BH66 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** brown, dry, soft	Topsoil: grassed surface Traces of sedimentary rock fragments	8
						ML	**(0.2) Clayey SILT:** pale brown, dry, soft	Clumps of clay	
		BH66 0.3-0.4	0.0	N					
								EOH at 0.4m Limit of investigation (refusal)	
0.5									
1.0									7
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH67

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Ocean Ridge
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,710.0 mE
NORTHING: 6,032,197.5 mN
ELEVATION: 5.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	BH67 0.0-0.1	0.0	Y		ML	**(0.0) Sandy Clayey SILT:** grey-dark brown, moist-wet, soft, low plasticity	Grassed surface Increase in soil clay content with depth	5
		BH67 0.3-0.4	0.0	Y		GC	**(0.3) Gravelly Clayey SAND:** pale brown-grey, moist-wet, soft		
0.5								EOH at 0.4m Limit of investigation (refusal)	
1.0									4
1.5									

Comments

LOGGED BY L.Baeza
CHECKED BY J.Lim

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BORE LOG
BH68

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,706.8 mE
NORTHING: 6,032,043.1 mN
ELEVATION: 2.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Coastal Deposits	BH68 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** dark brown, dry-moist, soft	Topsoil	2
						ML	**(0.2) Clayey SILT:** dark brown-black, dry-moist, soft	Organic matter Potential pond sedimentation deposition	
0.5		BH68 0.4-0.5	0.0	N				EOH at 0.5m Limit of investigation (target depth)	
1.0									1
1.5									

Comments

LOGGED BY L.Baeza
CHECKED BY C.Gunton

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BORE LOG
BH69

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,837.3 mE
NORTHING: 6,032,027.8 mN
ELEVATION: 8.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Bogolo Formation	BH69 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** dark brown-pale brown, moist, soft	Topsoil: grassed surface	8
						CL	**(0.3) Silty CLAY:** brown mottled yellow, moist, soft, moderate plasticity		
		BH69 0.4-0.5	0.0	N					
0.5								EOH at 0.5m Limit of investigation (target depth)	
1.0									7
1.5									

Comments

LOGGED BY L.Baeza
CHECKED BY C.Gunton

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BORE LOG
BH70

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,985.8 mE
NORTHING: 6,032,006.6 mN
ELEVATION: 23.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Bogolo Formation*	BH70 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, dry, soft	Topsoil: grassed surface	23
						ML	**(0.1) Clayey SILT:** brown, dry, soft		
		BH70 0.2-0.3	0.0	N					
								EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									22
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH71

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,904.2 mE
NORTHING: 6,031,941.6 mN
ELEVATION: 10.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0		BH71 0.0-0.1	0.0	Y		GM	**(0.0) Gravelly Sandy SILT:** dark brown, dry, soft		10
		BH71 0.1-0.2	0.0	N		GC	**(0.1) Gravelly Sandy CLAY:** brown-orange, dry, soft	Abundant presence of sedimentary rock fragments	
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									9
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH72

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.4m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,625.1 mE
NORTHING: 6,032,664.1 mN
ELEVATION: 27.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Bogolo Formation*	BH72 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, dry, soft	Topsoil, dense vegetation	27
						ML	**(0.1) Clayey SILT:** pale brown, dry, soft		
		BH72 0.3-0.4	0.0	N					
								EOH at 0.4m Limit of investigation (refusal)	
0.5									
1.0									26
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH73

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,603.9 mE
NORTHING: 6,032,515.6 mN
ELEVATION: 14.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	BH73 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, dry, soft	Topsoil	14
						ML	**(0.1) Clayey SILT:** pale brown, dry-moist, soft		
		BH73 0.2-0.3	0.0	N				EOH at 0.3m Limit of investigation (refusal)	
0.5									
1.0									13
1.5									

Comments

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CHECKED BY C.Gunton

lanterra consulting	BORE LOG BH74	PROJECT NUMBER: P23158 CLIENT NAME: Walker Rosedale Pty Ltd ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW	COORDINATE SYSTEM: GDA2020 / MGA zone 56
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd	EASTING: 247,582.7 mE
DRILL METHOD: Hand Auger	NORTHING: 6,032,367.1 mN
DIAMETER: 150mm	ELEVATION: 13.0 AHD
HOLE DEPTH: 0.2m	DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH74 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown-pale brown, dry, soft		13
		BH74 0.1-0.2	0.0	N				Traces of sedimentary rocks observed	
0.5								EOH at 0.2m Limit of investigation (refusal)	
1.0									12
1.5									

Comments	LOGGED BY L.Baeza CHECKED BY C.Gunton

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BORE LOG
BH75

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.2m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,561.5 mE
NORTHING: 6,032,218.7 mN
ELEVATION: 11.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	BH75 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** dark brown, dry, soft		11
		BH75 0.1-0.2	0.0	N		GM	**(0.1) Gravelly Sandy SILT:** dark brown, dry, soft		
								EOH at 0.2m Limit of investigation (refusal)	
0.5									
1.0									10
1.5									

Comments

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CHECKED BY C.Gunton

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BORE LOG
BH76

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.3m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,390.0 mE
NORTHING: 6,032,321.4 mN
ELEVATION: 6.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	BH76 0.0-0.1	0.0	Y		SM	**(0.0) Sandy SILT:** pale brown-yellow, dry, soft	Trace rootlets (trees). Next to unsealed road	6
						ML	**(0.1) Clayey SILT:** pale brown-yellow, dry, soft		
		BH76 0.2-0.3	0.0	N					
0.5								EOH at 0.3m Limit of investigation (refusal)	
1.0									5
1.5									

Comments

LOGGED BY L.Baeza
CHECKED BY C.Gunton

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BORE LOG
BH77

PROJECT NUMBER: P23158
CLIENT NAME: Walker Rosedale Pty Ltd
ADDRESS: 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW
DRILLING CONTRACTOR: Lanterra Consulting Pty Ltd
DRILL METHOD: Hand Auger
DIAMETER: 150mm
HOLE DEPTH: 0.5m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,434.2 mE
NORTHING: 6,032,388.3 mN
ELEVATION: 7.0 AHD
DATE DRILLED: 14/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	BH77 0.0-0.1	0.0	Y		ML	**(0.0) Clayey SILT:** dark brown, dry-moist, soft	Topsoil: grassed surface	7
						SC	**(0.3) Sandy Silty CLAY:** brown-yellow, dry-moist, soft, moderate plasticity		
0.5		BH77 0.4-0.5	0.0	N				EOH at 0.5m Limit of investigation (target depth)	
1.0									6
1.5									

Comments

LOGGED BY L.Baeza
CHECKED BY C.Gunton

lanterra consulting	**BORE LOG** **LC1**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,919.6 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,332.4 mN
DIAMETER: 300mm	**ELEVATION:** 27.0 AHD
HOLE DEPTH: 0.6m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC1 0.0-0.1	0.1	Y		GC	**(0.0) Gravelly, sandy clay:** Pale brown - yellow, moist, plastic	Natural	27
						GC	**(0.2) Gravelly, clayey silt:** Light grey, dry, soft	weathered sedimentary rock	
0.5		LC1 0.5-0.6	0.1	N					
								EOH @ 0.6m	
1.0									26
1.5									
2.0									25
2.5									
3.0									24

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC2**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation - Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,923.9 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,340.2 mN
DIAMETER: 300mm	**ELEVATION:** 26.7 AHD
HOLE DEPTH: 0.6m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC2 0.0-0.1	0.0	Y		GC	**(0.0) Gravelly, clayey sand:** Pale brown, dry - moist, soft	Potential wash out of first 5cm	
						GC	**(0.2) Gravelly, clayey silt:** Pale brown - yellow, dry, soft	Weathered sedimentary rock	
0.5		LC2 0.5-0.6	0.1	N				EOH @ 0.6m	
									26
1.0									
1.5									25
2.0									
2.5									24
3.0									

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting

BORE LOG
LC3

PROJECT NUMBER: P23158
CLIENT NAME: Walker Group
ADDRESS: Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW
DRILLING CONTRACTOR: High Quality Finish Building
DRILL METHOD: Auger
DIAMETER: 300mm
HOLE DEPTH: 0.6m

COORDINATE SYSTEM: GDA2020 / MGA zone 56
EASTING: 247,929.1 mE
NORTHING: 6,033,349.2 mN
ELEVATION: 26.4 AHD
DATE DRILLED: 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC3 0.0-0.1	0.2	Y		GC	**(0.0) Gravelly, clayey sand:** Pale brown - yellow, dry - moist, soft	Clumps of clay	
						GC	**(0.2) Gravelly, clayey silt:** Pale brown - yellow , dry, soft	Weathered rock	26
0.5		LC3 0.5-0.6	0.0	N					
								EOH @ 0.6m	
1.0									25
1.5									
2.0									24
2.5									
3.0									

Comments

LOGGED BY LB
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lanterra consulting	**BORE LOG** **LC4**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,935.2 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,358.2 mN
DIAMETER: 300mm	**ELEVATION:** 26.0 AHD
HOLE DEPTH: 0.6m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC4 0.0-0.1	0.1	Y		GC	**(0.0) Gravelly sandy clay:** Pale brown - yellow, dry - moist, soft	Lumps of clay	26
						GM	**(0.2) Gravelly clayey silt:** Grey - yellow, dry, soft	Weathered rock	
0.5		LC4 0.5-0.6	0.2	N					
								EOH @ 0.6m	
1.0									25
1.5									
2.0									24
2.5									
3.0									23

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC5**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,921.2 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,358.4 mN
DIAMETER: 300mm	**ELEVATION:** 28.0 AHD
HOLE DEPTH: 1.0m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC5 0.0-0.1	0.0	Y		Topsoil	**(0.0) Topsoil:** Sandy clayey silt, Dark brown, dry - moist, soft	Topsoil	28
						SC	**(0.2) Sandy clay:** Brown, dry - moist, plastic	Heavy clay, traces of weathered rock	
0.5		LC5 0.5-0.6	0.1	N				Weathered sedimentary rock	
1.0								EOH @ 1.0m	27
1.5									
2.0									26
2.5									
3.0									25

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC6**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,916.1 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,350.8 mN
DIAMETER: 300mm	**ELEVATION:** 28.3 AHD
HOLE DEPTH: 1.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC6 0.0-0.1	0.1	Y		Topsoil	**(0.0) Topsoil:** Sandy clayey silt, Dark brown, dry - moist, soft	Topsoil, traces of weathered rock	
						GC	**(0.2) Gravelly sandy clay:** Brown - pale brown, dry - moist, soft - plastic	Natural	28
0.5		LC6 0.5-0.6	0.2	N					
						GM	**(0.8) Gravelly sandy silt:** Grey - yellow, dry, soft		
1.0		LC6 1.0-1.1	0.1	N					
								EOH @ 1.1m	27
1.5									
2.0									26
2.5									
3.0									

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC7**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,910.8 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,342.1 mN
DIAMETER: 300mm	**ELEVATION:** 28.4 AHD
HOLE DEPTH: 1.0m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC7 0.0-0.1	0.2	Y		Topsoil	**(0.0) Topsoil:** Clayey silt, Dark brown, dry - moist, soft	Topsoil	
						GC	**(0.2) Sandy clay:** Pale brown, dry - moist, plastic	Natural	28
0.5		LC7 0.5-0.6	0.2	N					
						GM	**(0.8) Gravelly sandy silt:** Grey - yellow, dry, soft	Weathered sedimentary rock	
1.0								EOH @ 1.0m	27
1.5									
2.0									26
2.5									
3.0									

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC8**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,906.2 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,335.6 mN
DIAMETER: 300mm	**ELEVATION:** 28.8 AHD
HOLE DEPTH: 1.0m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC8 0.0-0.1	0.1	Y		Topsoil	**(0.0) Topsoil:** Clayey silt, Dark brown, dry - moist, plastic	Topsoil	
0.5		LC8 0.5-0.6	0.0	N					
						SC	**(0.7) Sandy clay:** Brown, dry - moist, plastic	Weathered sedimentary rock	28
1.0								EOH @ 1.0m	
1.5									27
2.0									
2.5									26
3.0									

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC9**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,962.3 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,353.1 mN
DIAMETER: 300mm	**ELEVATION:** 22.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC9 0.0-0.1	0.1	N		Fill	**(0.0) Fill:** Gravelly clayey sand, Brown, dry - moist, soft	Trace of weathered sedimentary rock	22
						Fill	**(0.2) Fill:** Sandy clayey silt, Brown - pale brown, dry, soft	Fill	
0.5		LC9 0.5-0.6	0.0	N					
1.0		LC9 1.0-1.1	0.0	N					21
						GC	**(1.1) Clayey Gravel**	Traces of weathered sedimentary rock	
1.5						GM	**(1.4) Clay and Silt:** Pale brown - grey, dry, soft	Bedrock	
2.0		LC9 2.0-2.1	0.0	N					20
								EOH @ 2.1m	
2.5									
3.0									19

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC10**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,950.6 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,356.6 mN
DIAMETER: 300mm	**ELEVATION:** 24.2 AHD
HOLE DEPTH: 1.5m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC10 0.0-0.1	0.1	Y		GC	**(0.0) Fill:** Gravelly sandy clay, Brown - pale brown, dry - moist, soft - plastic (low)		24
						Fill	**(0.2) Fill:** Sandy clayey silt, Brown - dark brown, dry - moist, soft	Fill	
0.5		LC10 0.5-0.6	0.0	N		GC	**(0.4) Gravelly sandy clay:** Brown - orange, dry - moist, soft	Mottled texture, residual, traces of weathered sedimentary rock	
1.0		LC10 1.0-1.1	0.0	N		GM	**(0.8) Gravelly clayey silt:** Pale brown - yellow, dry - moist, soft	weathered fragments of sedimentary rock	23
1.5								EOH @ 1.5m	
2.0									22
2.5									
3.0									

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC11**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,943.8 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,349.4 mN
DIAMETER: 300mm	**ELEVATION:** 24.4 AHD
HOLE DEPTH: 1.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC11 0.0-0.1	0.2	Y		GC	**(0.0) Fill:** Gravelly sandy clay, brown - pale brown, dry - moist, soft - plastic	Lumps of clay	
						GM	**(0.2) Gravelly sandy silt:** Pale brown - yellow, dry, soft	Weathered bedrock	24
0.5		LC11 0.5-0.6	0.1	N					
1.0		LC11 1.0-1.1	0.0	N				EOH @ 1.1m	23
1.5									
2.0									22
2.5									
3.0									

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC12**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,953.6 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,346.7 mN
DIAMETER: 300mm	**ELEVATION:** 23.5 AHD
HOLE DEPTH: 1.4m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC12 0.0-0.1	0.1	Y		Fill	**(0.0) Fill:** Gravelly sandy clay, Brown - pale brown, dry - moist, soft - plastic	Fill	
						Fill	**(0.2) Fill:** Gravelly sandy clay, Brown - dark brown, dry - moist, soft	Fill, lumps of clay	
						SM	**(0.4) Gravelly sandy clay:** Brown - orange, dry - moist, plastic	Residual soil	
0.5		LC12 0.5-0.6	0.1	N					23
1.0		LC12 1.0-1.1	0.0	N		GM	**(1.0) Gravelly clayey silt:** Pale brown - yellow, dry, soft	Weathered bedrock	
								EOH @ 1.4m	
1.5									22
2.0									
2.5									21
3.0									

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC13**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,963.5 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,343.5 mN
DIAMETER: 300mm	**ELEVATION:** 23.4 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Fill	LC13 0.0-0.1	0.1	N		GC	**(0.0) Fill:** Gravelly sandy clay, Brown, dry - moist, soft - plastic	Glass on surface, traces of slate	
						SM	**(0.2) Fill:** Sandy clayey silt, Brown - dark brown, dry - moist, soft	Rootlets observed, fill	23
0.5		LC13 0.5-0.6	0.1	Y					
1.0		LC13 1.0-1.1	0.0	N		GC	**(1.0) Fill:** Gravelly clayey silt, Brown, dry, soft	Fill	22
1.5		LC13 1.5-1.6	0.0	N					
2.0						GC	**(2.0) Gravelly silty clay:** Grey, moist, wet, soft - plastic	Water and potential natural material EOH @ 2.1m	21
2.5									
3.0									

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC14**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,937.4 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,305.2 mN
DIAMETER: 300mm	**ELEVATION:** 24.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC14 0.0-0.1	0.3	Y		GC	**(0.0) Gravelly sandy clay:** Brown - pale brown, dry - moist, soft	Traces of gravelon surface, lumps of clay	24
						GC	**(0.2) Gravelly sandy clay:** pale brown - grey, dry, soft	Fragments of sedimentary bedrock, natural	
0.5		LC14 0.5-0.6	0.1	N					
						GM	**(0.8) Gravelly clayey silt:** Pale brown - grey, dry, soft	Weathered bedrock	
1.0		LC14 1.0-1.1	0.1	N					23
1.5									
2.0									22
2.5									
3.0									21

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC15**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,891.8 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,279.9 mN
DIAMETER: 300mm	**ELEVATION:** 26.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC15 0.0-0.1	0.2	Y		Topsoil	**(0.0) Topsoil:** Sandy clayey silt, Dark brown, dry - moist, soft	Grassed surface, topsoil	26
						CL	**(0.2) Clay:** Brown, dry - moist, plastic		
0.5		LC15 0.5-0.6	0.1	N					
						SC	**(0.8) Sandy silty clay:** Grey, dry, hard - plastic	Extremely weathered bedrock	
1.0		LC15 1.0-1.1	0.0	N					25
1.5						GM	**(1.4) Gravelly sandy silt:** Grey - yellow, dry, soft		
2.0		LC15 2.0-2.1	0.0	N					24
2.5									
3.0									23

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC16**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,981.4 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,340.7 mN
DIAMETER: 300mm	**ELEVATION:** 19.5 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC16 0.0-0.1	0.2	Y		Topsoil	**(0.0) Topsoil:** Clayey silt, Dark brown, moist - wet, soft	Topsoil. Organic matter smell, grassed surface	
						GC	**(0.2) Gravelly sandy clay:** Brown -pale brown, dry, soft	Natural, lumps of clay, traces of sedimentary rock fragments	
0.5		LC16 0.5-0.6	0.1	N					19
1.0		LC16 1.0-1.1	0.1	N		GM	**(0.9) Gravelly clayey silt:** Pale brown, dry, soft	Sedimentary rock fragments	
						GM	**(1.3) Gravelly sandy silt:** Pale brown - yellow, dry, soft	Bedrock	
1.5									18
2.0		LC16 2.0-2.1	0.0	N				EOH @ 2.1m	
2.5									17
3.0									

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC17**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,005.0 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,286.4 mN
DIAMETER: 300mm	**ELEVATION:** 18.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Fill	LC17 0.0-0.1	0.0	N		Topsoil	**(0.0) Topsoil:** Clayey sandy silt, Dark brown, dry - moist, soft	Topsoil, grassed surface, plastic film for cover and rope on top soil.	18
						SC	**(0.2) Fill:** Clayey sandy silt, Pale brown - dark brown, dry - moist, soft	Traces of plastic film, cable at 0.4m	
0.5		LC17 0.5-0.6	0.0	Y					
1.0	Wagonga Group	LC17 1.0-1.1	0.0	N		CL	**(1.0) Clay:** Brown - orange, dry - moist, plastic	Natural	17
1.5						SC	**(1.5) Gravelly sandy silt:** Pale brown - grey, dry, soft	Weathered sedimentary bedrock	
2.0		LC17 2.0-2.1	0.0	N					16
								EOH @ 2.1m	
2.5									
3.0									15

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC18**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,005.0 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,286.4 mN
DIAMETER: 300mm	**ELEVATION:** 17.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Fill*	LC18 0.0-0.1	0.3	Y		Fill	**(0.0) Fill:** Gravelly sandy silt, Pale brown - dark brown, moist, soft	Irrigation pipe - fragments on surface, grass, fill	17
								PVC pipeline @ 0.4m	
						CL	**(0.4) Clay:** Brown - orange ,dry - moist, plastic	Natural	
0.5		LC18 0.5-0.6	0.1	N					
	Wagonga Group					SC	**(0.9) Sandy clayey silt:** Brown - grey, dry - moist, plastic	Weathered bedrock	
1.0		LC18 1.0-1.1	0.0	N					16
1.5						GM	**(1.5) Gravelly sand clay:** Grey, dry, soft	Slate fragments observed	
2.0		LC18 2.0-2.1	0.0	N					15
								EOH @ 2.1m	
2.5									
3.0									14

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC19**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,039.4 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,313.1 mN
DIAMETER: 300mm	**ELEVATION:** 16.0 AHD
HOLE DEPTH: 1.4m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Fill*	LC19 0.0-0.1	0.2	Y		Fill	**(0.0) Fill:** Gravelly sandy silt, Pale brown - dark brown, moist, soft	Grassed surface, pebbles observed in fill	16
						CL	**(0.2) Clay:** Brown - orange	Natural	
	Wagonga Group					GM	**(0.4) Gravelly sandy silt:** Grey, dry, soft	Weathered bedrock	
0.5		LC19 0.5-0.6	0.1	N					
1.0		LC19 1.0-1.1	0.0	N					15
1.5								EOH @ 1.4m on refusal	
2.0									14
2.5									
3.0									13

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC20**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,105.3 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,296.5 mN
DIAMETER: 300mm	**ELEVATION:** 13.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC20 0.0-0.1	0.2	Y		Topsoil	**(0.0) Topsoil:** Sandy clayey silt, Dark brown, dry - moist, soft	Grassed surface	13
						GM	**(0.2) Gravelly sandy silt:** Brown - yellow, dry, soft	Weathered siltstone	
0.5		LC20 0.5-0.6	0.1	N					
1.0		LC20 1.0-1.1	0.1	N					12
1.5									
2.0		LC20 2.0-2.1	0.0	N		GM	**(2.0) Gravelly sandy silt:** Yellow - grey, dry, soft	EOH @ 2.1m on refusal	11
2.5									
3.0									10

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC21**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,077.7 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,262.0 mN
DIAMETER: 300mm	**ELEVATION:** 12.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Fill*	LC21 0.0-0.1	0.1	N		Topsoil	**(0.0) Topsoil:** Sandy silt, Dark brown, moist, soft	Grassed surface, piece of pvc observed	12
						SC	**(0.2) Fill:** Sandy silty clay, Brown, moist, soft-plastic	Potential reworked fill	
0.5		LC21 0.5-0.6	0.1	Y					
	Wagonga Group					SC	**(0.8) Silty clay:** Brown - orange, dry - moist.,plastic		
1.0		LC21 1.0-1.1	0.0	N					11
1.5								Sand more abundant with depth	
2.0		LC21 2.0-2.1	0.0	N		SC	**(2.0) Sandy silty clay:** Brown - orange, dry - moist.,plastic		10
								EOH @ 2.1m	
2.5									
3.0									9

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC22**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,045.7 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,233.0 mN
DIAMETER: 300mm	**ELEVATION:** 10.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC22 0.0-0.1	0.1	Y		Topsoil	**(0.0) Topsoil:** Sandy clayey silt, dark brown, moist, soft	Grassed surface	10
						CL	**(0.2) Silty clay:** brown - orange, dry - moist, plastic	Natural	
0.5		LC22 0.5-0.6	0.1	N					
1.0		LC22 1.0-1.1	0.0	N		CL	**(1.0) Silty clay:** brown - yellow, dry - moist, plastic		9
1.5						SC	**(1.5) Sandy clayey silt:** brown - orange, dry, soft - plastic		
2.0		LC22 2.0-2.1	0.0	N					8
								EOH @ 2.1m	
2.5									
3.0									7

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC23**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,171.2 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,274.4 mN
DIAMETER: 300mm	**ELEVATION:** 10.5 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	LC23 0.0-0.1	0.2	Y		Topsoil	**(0.0) Topsoil:** Sandy clayey silt, dark brown, dry - moist, soft	Grassed surface	
						SC	**(0.2) Silty clay:** brown - orange, dry - moist, plastic		
0.5		LC23 0.5-0.6	0.0	N					10
								Traces of weathered sedimentary rock	
1.0		LC23 1.0-1.1	0.0	N					
1.5						SC	**(1.5) Sandy silty clay:** brown - orange, dry, soft - plastic	Coarse grained sand	9
2.0		LC23 2.0-2.1	0.1	N					
								EOH @ 2.1m	
2.5									8
3.0									

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC24**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,137.4 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,186.0 mN
DIAMETER: 300mm	**ELEVATION:** 12.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	LC24 0.0-0.1	0.2	Y		Topsoil	**(0.0) Topsoil:** Clayey silt, Brown, dry. soft	Grassed surface	12
						SC	**(0.2) Silty clay:** Brown - yellow, dry - moist, plastic		
0.5		LC24 0.5-0.6	0.1	N					
1.0		LC24 1.0-1.1	0.0	N		SC	**(1.0) Silty clay:** Brown - orange, dry - moist, plastic	Natural	11
1.5						CL	**(1.5) Clay:** Red - grey, dry - moist, plastic	Traces of weathered sedimentary rock	
2.0		LC24 2.0-2.1	0.1	N					10
								EOH @ 2.1m	
2.5									
3.0									9

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC25**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,156.2 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,193.0 mN
DIAMETER: 300mm	**ELEVATION:** 12.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	LC25 0.0-0.1	0.1	Y		Topsoil	**(0.0) Topsoil:** Clayey silt, Brown - dark brown, moist, plastic	Grassed surface	12
						CL	**(0.2) Clay:** Brown - yellow, dry - moist, plastic		
0.5		LC25 0.5-0.6	0.0	N		CL	**(0.5) Clay:** Pale brown - orange, dry - moist, plastic		
1.0		LC25 1.0-1.1	0.0	N					11
1.5						CL	**(1.4) Clay:** Red - grey, dry - moist, plastic	Orange spots within clay	
2.0		LC25 2.0-2.1	0.0	N				Traces of weathered sedimentary rock	10
								EOH @ 2.1m	
2.5									
3.0									9

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC26**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,162.8 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,173.1 mN
DIAMETER: 300mm	**ELEVATION:** 12.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	LC26 0.0-0.1	0.3	Y		SC	**(0.0) Topsoil:** Clayey silt, dark brown, moist, soft	Grassed surface	12
						SC	**(0.2) Silty clay:** Brown - yellow, dry - moist, plastic	Natural	
0.5		LC26 0.5-0.6	0.2	N					
1.0		LC26 1.0-1.1	0.1	N					11
1.5						SC	**(1.5) Silty clay:** Grey - orange, dry - moist, plastic		
2.0		LC26 2.0-2.1	0.0	N					10
								EOH @ 2.1m	
2.5									
3.0									9

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC27**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,171.6 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,211.0 mN
DIAMETER: 300mm	**ELEVATION:** 12.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	LC27 0.0-0.1	0.1	Y		SC	**(0.0) Topsoil:** Clayey silt, brown, dry - moist, soft	Grassed, topsoil	12
						SC	**(0.2) Sandy silty clay:** Pale brown - yellow, dry -moist, plastic	Traces of weathered sedimentary rock	
0.5		LC27 0.5-0.6	0.0	N					
						GC	**(0.8) Gravelly clayey sand:** Brown - ornage, dry - moist, soft - low plastic	Traces of weathered rock fragments	
1.0		LC27 1.0-1.1	0.1	N					11
1.5									
2.0		LC27 2.0-2.1	0.0	N					10
								EOH @ 2.1m	
2.5									
3.0									9

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC28**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,165.8 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,229.8 mN
DIAMETER: 300mm	**ELEVATION:** 8.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	LC28 0.0-0.1	0.3	Y		SC	**(0.0) Topsoil:** Clayey silt, brown, dry, soft	Grassed surface	8
						SC	**(0.2) Silty clay:** Pale brown, dry, hard - plastic	Natural	
0.5		LC28 0.5-0.6	0.1	N					
						CL	**(0.8) Clay:** Pale brown - orange, dry - moist, hard - plastic	Orange spots resembling residual soil	
1.0		LC28 1.0-1.1	0.1	N					7
1.5						SC	**(1.4) Sandy silty clay:** Brown, dry - moist, soft - plastic		
2.0		LC28 2.0-2.1	0.0	N					6
								EOH @ 2.1m	
2.5									
3.0									5

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC29**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 248,149.8 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,219.3 mN
DIAMETER: 300mm	**ELEVATION:** 11.0 AHD
HOLE DEPTH: 2.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Alluvial Deposits*	LC29 0.0-0.1	0.2	Y		SC	**(0.0) Topsoil:** Clayey silt, dark brown, dry - moist, soft	Grassed surface	11
						SC	**(0.2) Silty clay:** Pale brown - yellow, dry - moist, hard - plastic		
0.5		LC29 0.5-0.6	0.0	N					
						SC	**(0.8) Sandy silty clay:** Pale brown - yellow, dry - moist, hard - plastic		
1.0		LC29 1.0-1.1	0.1	N					10
1.5						GC	**(1.5) Gravelly sandy clay:** Brown, dry - moist, soft - plastic	Fragments of slate, burnt spots, potential creek residue	
2.0		LC29 2.0-2.1	0.0	N					9
								EOH @ 2.1m	
2.5									
3.0									8

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC30**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,560.7 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,354.5 mN
DIAMETER: 300mm	**ELEVATION:** 54.0 AHD
HOLE DEPTH: 1.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC30 0.0-0.1	0.0	Y		Topsoil	**(0.0) Topsoil:** Clayey silt, brown, dry, soft	Grassed surface	54
						GC	**(0.2) Gravelly sandy silt:** Pale brown, dry, soft	Abundant fragments of weathered rock (slate)	
0.5		LC30 0.5-0.6	0.1	N					
1.0		LC30 1.0-1.1	0.1	N					53
								EOH @ 1.1m	
1.5									
2.0									52
2.5									
3.0									51

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC31**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,573.2 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,350.1 mN
DIAMETER: 300mm	**ELEVATION:** 54.0 AHD
HOLE DEPTH: 1.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC31 0.0-0.1	0.1	Y		GM	**(0.0) Gravelly sandy silt:** Dark brown - pale brown, dry, soft	Abundant sedimentary rock fragments	54
						GM	**(0.1) Gravelly sandy silt:** Pale brown - grey, dry, soft		
0.5		LC31 0.5-0.6	0.0	N				Weathered bedrock	
						GM	**(0.9) Gravelly sandy silt:** Pale brown - grey, wet, soft	Water @ 0.9m	
1.0		LC31 1.0-1.1	0.0	N					53
								EOH @ 1.1m	
1.5									
2.0									52
2.5									
3.0									51

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC32**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,587.9 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,344.8 mN
DIAMETER: 300mm	**ELEVATION:** 54.0 AHD
HOLE DEPTH: 1.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC32 0.0-0.1	0.1	Y		SC	**(0.0) Topsoil:** Clayey silt, brown, dry, soft	Grassed surface	54
						GC	**(0.2) Gravelly sandy clay:** Pale brown, dry, soft	Abundant fragments of weathered sedimentary rock	
0.5		LC32 0.5-0.6	0.0	N					
						GM	**(0.8) Clayey silt:** Dark brown, dry, soft	Weathered sedimentary bedrock	
1.0		LC32 1.0-1.1	0.0	N					53
								EOH @ 1.1m	
1.5									
2.0									52
2.5									
3.0									51

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC33**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,599.6 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,340.7 mN
DIAMETER: 300mm	**ELEVATION:** 54.0 AHD
HOLE DEPTH: 1.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC33 0.0-0.1	0.2	Y		SC	**(0.0) Clayey silt:** Dark brown, dry, soft	Traces of weathered sedimentary rock	54
						GM	**(0.2) Gravelly sandy clay:** Pale brown - grey, dry, soft	Abundant weathered rock fragments	
0.5		LC33 0.5-0.6	0.1	N					
1.0		LC33 1.0-1.1	0.1	N					53
								EOH @ 1.1m	
1.5									
2.0									52
2.5									
3.0									51

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC34**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,592.9 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,328.1 mN
DIAMETER: 300mm	**ELEVATION:** 53.0 AHD
HOLE DEPTH: 1.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC34 0.0-0.1	0.1	N		GC	**(0.0) Gravelley sandy clay:** Pale brown, dry - moist, plastic	Abundant weathered rock fragments	53
						GC	**(0.2) Gravelly sandy clay:** Grey - greenish, dry - moist, plastic	Greenish clay	
0.5		LC34 0.5-0.6	0.0	Y					
1.0		LC34 1.0-1.1	0.0	N					52
								EOH @ 1.1m	
1.5									
2.0									51
2.5									
3.0									50

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **LC35**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,579.7 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,332.1 mN
DIAMETER: 300mm	**ELEVATION:** 53.0 AHD
HOLE DEPTH: 1.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Fill	LC35 0.0-0.1	0.2	Y		SC	**(0.0) Topsoil:** Sandy silt, dark brown, dry, soft	Traces of sedimentary rock	53
						CL	**(0.2) Sandy clayey silt:** Brown - pale brown, dry, soft	Fill	
0.5		LC35 0.5-0.6	0.1	N					
1.0		LC35 1.0-1.1	0.1	N					52
								EOH @ 1.1m	
1.5									
2.0									51
2.5									
3.0									50

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	BORE LOG LC36	PROJECT NUMBER: P23158 CLIENT NAME: Walker Group ADDRESS: Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	COORDINATE SYSTEM: GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	EASTING: 247,566.3 mE
DRILL METHOD: Auger	NORTHING: 6,033,336.1 mN
DIAMETER: 300mm	ELEVATION: 53.0 AHD
HOLE DEPTH: 1.1m	DATE DRILLED: 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	Wagonga Group	LC36 0.0-0.1	0.0	Y		CL	**(0.0) Sandy clayey silt:** Pale brown, dry, soft		53
						CL	**(0.2) Silty sand:** pale brown, dry, soft	Sandier with depth	
0.5		LC36 0.5-0.6	0.0	N					
						GM	**(0.8) Gravelly sandy silt:** Pale brown - grey, dry, soft	Abundant weathered rock fragments	
1.0		LC36 1.0-1.1	0.0	N					52
								EOH @ 1.1m	
1.5									
2.0									51
2.5									
3.0									50

Comments	LOGGED BY LB CHECKED BY CG

lanterra consulting	**BORE LOG** **LC37**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Group **ADDRESS:** Bevian Road, Rosedale

PROJECT NAME: Detailed Site Investigation, Rosedale, NSW	**COORDINATE SYSTEM:** GDA2020 / MGA zone 56
DRILLING CONTRACTOR: High Quality Finish Building	**EASTING:** 247,554.2 mE
DRILL METHOD: Auger	**NORTHING:** 6,033,339.4 mN
DIAMETER: 300mm	**ELEVATION:** 53.0 AHD
HOLE DEPTH: 1.1m	**DATE DRILLED:** 18/1/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Elevation (AHD)
0.0	*Wagonga Group*	LC37 0.0-0.1	0.1	Y		SC	**(0.0) Topsoil:** Clayey silt, dark brown, dry - moist, soft	Grassed surface, traces of weathered siltstone/slate	53
						GM	**(0.2) Gravelly silt:** Brown - red, dry - moist, plastic		
0.5		LC37 0.5-0.6	0.0	N					
						GC	**(0.6) Gravelly sandy silt:** Brown - orange, dry - moist, soft - plastic	Abundant weathered sedimentary rock fragments	
1.0		LC37 1.0-1.1	0.0	N					52
								EOH @ 1.1m	
1.5									
2.0									51
2.5									
3.0									50

Comments	**LOGGED BY** LB **CHECKED BY** CG

lanterra consulting	**BORE LOG** **GW1**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Rosedale Pty Ltd **ADDRESS:** 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME:	Detailed Site Investigation - Rosedale, NSW	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 56
CONTRACTOR:	Terratest	**EASTING:**	248,170.886 mE
DRILL METHOD:	Geoprobe rig - auger/hammer	**NORTHING:**	6,033,208.477 mN
DIAMETER:	125 mm	**ELEVATION:**	12.689 AHD
HOLE DEPTH:	5 m	**DATE DRILLED:**	11/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Well Diagram
0.0	*Wagonga Group*		NA			SC	**(0.0) Topsoil:** Silty clay, dark brown, moist	Organic matter, abundant vegetation	Bentonite
0.5						SC	**(0.2) Sandy clay:** brown-orange, moist, moderate plasticity		
1.0			NA						
1.5						GC	**(1.5) Gravelly clay:** orange-red, moist, low to moderate plasticity		
2.0								Alluvial clasts observed	
2.5									PVC Collar
3.0			NA					Groundwater encountered at 3.0 m bgl	Clean Sand
3.5									Slotted Screen
4.0									
4.5									
5.0								EOH at 5 m on bedrock	
5.5									
6.0									
6.5									
7.0									
7.5									
8.0									

Comments	**LOGGED BY** K. Lee **CHECKED BY** L. Baeza

lanterra consulting	**BORE LOG** **GW2**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Rosedale Pty Ltd **ADDRESS:** 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME:	Detailed Site Investigation - Rosedale, NSW	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 56
CONTRACTOR:	Terratest	**EASTING:**	248,150.104 mE
DRILL METHOD:	Geoprobe rig - auger/hammer	**NORTHING:**	6,033,361.908 mN
DIAMETER:	125 mm	**ELEVATION:**	14.841 AHD
HOLE DEPTH:	5 m	**DATE DRILLED:**	11/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Well Diagram
0.0	*Wagonga Group*		NA			SC	**(0.0) Sandy clay:** dark brown, moist		Bentonite
0.3			NA			SC	**(0.3) Sandy clay:** yellow-orange, moist, moderate plasticity		
1.0			NA			CL	**(1.0) Clay:** brown, moist, high plasticity	Groundwater encountered at 2.5 m bgl	PVC Collar Clean Sand Slotted Screen
5.0								EOH at 5 m on bedrock	

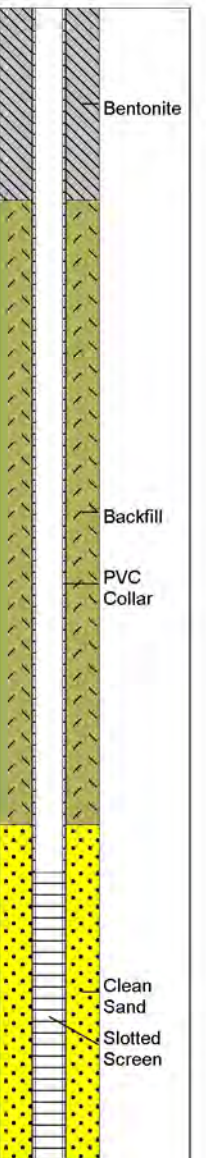
Comments

LOGGED BY	K. Lee
CHECKED BY	L. Baeza

lanterra consulting	**BORE LOG** **GW3**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Rosedale Pty Ltd **ADDRESS:** 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME:	Detailed Site Investigation - Rosedale, NSW	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 56
CONTRACTOR:	Terratest	**EASTING:**	247,963.092 mE
DRILL METHOD:	Geoprobe rig - auger/hammer	**NORTHING:**	6,033,338.983 mN
DIAMETER:	125 mm	**ELEVATION:**	25.218 AHD
HOLE DEPTH:	12 m	**DATE DRILLED:**	13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations
0.0	*Fill*		0.1			CL	**(0.0) Fill:** Sandy clay, brown-dark brown, moist, moderate plasticity	Rock fragments (<15 mm) Red mottles
0.5			0.2					
1.0			0.1					
1.5						CL	**(1.5) Fill:** Clay, light brown, dry	Rock fragments
2.0			0.3			SC	**(1.7) Clayey silt:** light brown-grey, dry	
2.5								
3.0								
3.5								
4.0								
4.5								
5.0								
5.5								
6.0	*Wagonga Group*		0.9			SC	**(5.8) Clayey silt:** light brown-grey, dry	Rock fragments
6.5								
7.0								
7.5								
8.0								
8.5								
9.0								
9.5						CL	**(9.5) Clay:** light brown-grey, moist, high plasticity	Groundwater encountered at 9.5 m bgl Alluvial gravels at 9.5 m bgl
10.0								
10.5								
11.0								
11.5								
12.0								EOH at 12 m on bedrock
12.5								
13.0								
13.5								
14.0								
14.5								
15.0								



Comments	**LOGGED BY** S. Walsh **CHECKED BY** L. Baeza

lanterra consulting	**BORE LOG** **GW4**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Rosedale Pty Ltd **ADDRESS:** 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME:	Detailed Site Investigation - Rosedale, NSW	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 56
CONTRACTOR:	Terratest	**EASTING:**	247,587.427 mE
DRILL METHOD:	Geoprobe rig - auger/hammer	**NORTHING:**	6,033,322.076 mN
DIAMETER:	125 mm	**ELEVATION:**	51.338 AHD
HOLE DEPTH:	27 m	**DATE DRILLED:**	13/12/2023

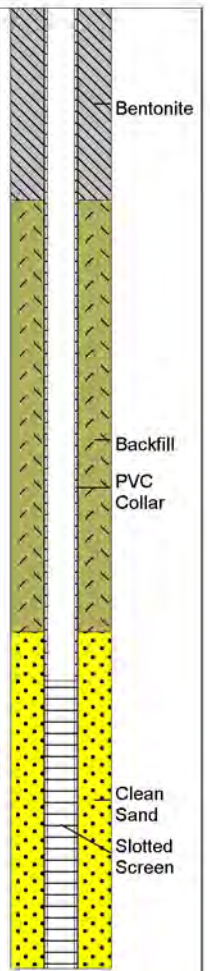
Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Well Diagram
0.0–0.5	Wagonga Group		NA			SC	**(0.0) Fill:** Sandy clay, dark brown, dry-moist, low plasticity	Light brown mottles	Bentonite
0.5–3.5			NA			SC	**(0.8) Silty clay:** light brown, moist, low plasticity		
3.5–4.0			NA			CL	**(3.5) Clay:** grey, dry		
4.0–15.5			NA			CL		Air drilling from 4 m bgl	Backfill PVC Collar
15.5–16.5			NA				**(16.5) Clay:** orange-grey, dry	Weathered rock fragments	
16.5–25.0								Groundwater hit at 26.8 m bgl	Clean Sand Slotted Screen
25.0–27.0							**(26.8) Clay:** dark grey, moist	EOH at 27 m on bedrock	

Comments	**LOGGED BY**	S. Walsh
	CHECKED BY	L. Baeza

lanterra consulting	**BORE LOG** **GW5**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Rosedale Pty Ltd **ADDRESS:** 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME:	Detailed Site Investigation - Rosedale, NSW	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 56
CONTRACTOR:	Terratest	**EASTING:**	247,981.567 mE
DRILL METHOD:	Geoprobe rig - auger/hammer	**NORTHING:**	6,033,524.471 mN
DIAMETER:	125 mm	**ELEVATION:**	23.537 AHD
HOLE DEPTH:	10 m	**DATE DRILLED:**	13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations
0.0	*Wagonga Group*		NA			CL	**(0.0) Clay:** brown-red, moist, moderate plasticity	Organic matter
1.5			NA			CL	**(1.5) Clay:** brown-red-grey, dry-moist, moderate plasticity	
2.5			NA			CL	**(2.5) Clay:** white-grey, dry-moist, moderate plasticity	White fragments Gravels
5.5			NA			CL	**(5.6) Clay:** pale brown, dry-moist, moderate plasticity	Gravels
8.0			NA			CL	**(8.0) Clay:** dark grey, wet, high plasticity	Gravels
10.0								EOH at 10 m on bedrock

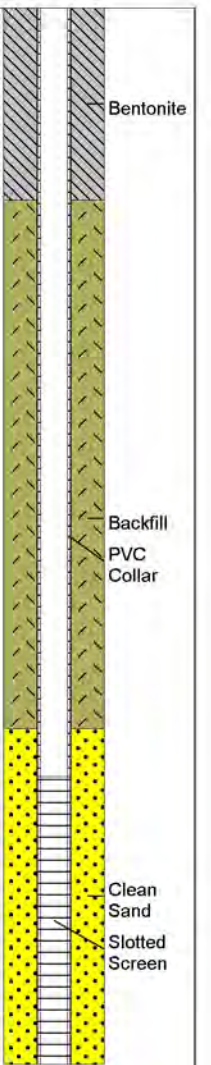


Comments	**LOGGED BY** S. Walsh **CHECKED BY** L. Baeza

lanterra consulting	**BORE LOG** **GW6**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Rosedale Pty Ltd **ADDRESS:** 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME:	Detailed Site Investigation - Rosedale, NSW	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 56
CONTRACTOR:	Terratest	**EASTING:**	247,957.2 mE
DRILL METHOD:	Geoprobe rig - auger/hammer	**NORTHING:**	6,033,080.505 mN
DIAMETER:	125 mm	**ELEVATION:**	20.229 AHD
HOLE DEPTH:	11 m	**DATE DRILLED:**	13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Well Diagram
0.0	*Wagonga Group*		NA			CL	**(0.0) Clay:** brown, dry		
0.5						CL	**(0.3) Clay:** red brown, dry-moist, moderate plasticity		
1.0			NA						
1.5						CL	**(1.5) Clay:** red, dry-moist, low-moderate plasticity	Grey mottles	
2.0			NA						
2.5						CL	**(2.6) Clay:** grey, dry-moist, moderate plasticity	Red mottles	
3.0			NA						
3.5						CL	**(3.4) Clay:** grey, moist, moderate plasticity	White and black weathered fragments	
4.0									
4.5								Red mottles	
5.0			NA						
5.5									
6.0									
6.5						CL	**(6.5) Clay:** grey-pale brown, moist, low-moderate plasticity		
7.0									
7.5			NA						
8.0									
8.5								Traces of gravel observed	
9.0								Groundwater encountered at 9.0 m bgl	
9.5						GC	**(9.1) Gravelly clay:** dark grey, moist-wet, high plasticity		
10.0			NA						
10.5									
11.0								EOH at 11 m on bedrock	
11.5									
12.0									
12.5									
13.0									
13.5									
14.0									
14.5									
15.0									



Comments	**LOGGED BY** S. Walsh **CHECKED BY** L. Baeza

lanterra consulting	**BORE LOG** **GW7**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Rosedale Pty Ltd **ADDRESS:** 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME:	Detailed Site Investigation - Rosedale, NSW	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 56
CONTRACTOR:	Terratest	**EASTING:**	247,250.672 mE
DRILL METHOD:	Geoprobe rig - auger/hammer	**NORTHING:**	6,032,186.821 mN
DIAMETER:	125 mm	**ELEVATION:**	7.061 AHD
HOLE DEPTH:	12.14 m	**DATE DRILLED:**	13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Well Diagram
0.0	*Wagonga Group*		NA			CL	**(0.0) Clay:** brown, moist, moderate plasticity		Bentonite
1.2			NA			CL	**(1.2) Clay:** red-white mottles, moist, low plasticity	Rock fragments observed	
2.6			NA			CL	**(2.6) Clay:** grey-yellow mottles		
3.8			NA			CL	**(3.8) Clay:** grey, moist, moderate plasticity	Minor coarse sand/gravel	Backfill
6.1			NA			GC	**(6.1) Clay:** red-brown		PVC Collar
8.5			NA			GC	**(8.5) Clay:** grey-red-brown, moist to wet, low plasticity	Minor coarse sand/gravel	Clean Sand
10.5								Groundwater encountered at 10.5 m bgl	Slotted Screen
12.14								EOH at 12.14 m on bedrock	

Comments	**LOGGED BY** S. Walsh **CHECKED BY** L. Baeza

lanterra consulting	**BORE LOG** **GW8**	**PROJECT NUMBER:** P23158 **CLIENT NAME:** Walker Rosedale Pty Ltd **ADDRESS:** 73 Bevian Road, Rosedale, NSW 2536

PROJECT NAME:	Detailed Site Investigation - Rosedale, NSW	**COORDINATE SYSTEM:**	GDA2020 / MGA zone 56
CONTRACTOR:	Terratest	**EASTING:**	247,731.421 mE
DRILL METHOD:	Geoprobe rig - auger/hammer	**NORTHING:**	6,031,977.178 mN
DIAMETER:	125 mm	**ELEVATION:**	4.411 AHD
HOLE DEPTH:	11 m	**DATE DRILLED:**	13/12/2023

Depth (m)	Geological Unit	Sample Name	PID (ppm)	Analysed	Graphic	USCS	(Depth) Lithological Description	Additional Observations	Well Diagram
0.0	*Wagonga Group - Bogolo Formation*		NA			CL	**(0.0) Clay:** dark brown, moist, moderate plasticity		Bentonite
1.0			NA			CL	**(0.8) Clay:** pale brown, moist, high plasticity	Brown mottles	
2.0			NA			CL	**(1.6) Clay:** light grey, dry	White rock fragments (<15 mm)	
3.0			NA			CL	**(2.5) Clay:** pale brown, moist, moderate plasticity		
5.0			NA			GC	**(4.8) Gravelly clay:** pale brown, moist, moderate plasticity		Backfill PVC Collar
9.0			NA			GC	**(9.0) Gravelly sandy clay:** grey-red-brown, moist to wet, low plasticity	Groundwater encountered at 9.0 m bgl	Clean Sand Slotted Screen
11.0								EOH at 11 m on bedrock	

Comments	**LOGGED BY** S. Walsh **CHECKED BY** L. Baeza

Appendix G

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GROUNDWATER MONITORING DATA RECORDING FORM

Client:	Walker	Monitoring Well I.D:	GW1
Site Location:	Rosedale	Sampler:	SW
Project Number:	P23158	Install Date:	19/1/24
Gattic or Standpipe:	SP	Vapours in Well:	-
Standpipe Height (m):	0.72	Checked for Product:	Y
Well Head Integrity:	✓	Depth to Product:	nil
Well Diameter:	50mm	Product Thickness:	nil
Well Depth:	5.270	Hydrasleeve Size:	~~1L~~ 1.1L
Depth to Groundwater (pre install):	2.442	Depth to Groundwater (pre sample):	2.738
Depth of Hydrasleeve (top):	3.900	Measurment Device:	YSI
Screen Depth:	3m	Retrieval Date:	29/1/24

Time	Total Volume Removed (L)	Temperature (°C)	EC (mS/cm)	DO (mg/L)	pH (pH units)	ORP (mV)	
	~~1.1L 23.6~~	23.6	1293	2.52	5.53	96.0	

GW Description:	orangey-brown, h. turb
Odour:	sl. organic
Post Sampling GW Depth:	2.715

Samples Collected	Analysis	Filtering	Preserative	Laboratory
GW1	TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 metals	Y	Y	SGS

Additional Comments:

Very silty,

 GW2

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GROUNDWATER MONITORING DATA RECORDING FORM

Client:	Metka	Monitoring Well I.D:	GW2
Site Location:	Rosedale	Sampler:	SM
Project Number:	23154	Install Date:	19/1/24
Gattic or Standpipe:	SP	Vapours in Well:	–
Standpipe Height (m):	0.73	Checked for Product:	Y
Well Head Integrity:	G	Depth to Product:	nil
Well Diameter:	50mm	Product Thickness:	nil
Well Depth:	4.895	Hydrasleeve Size:	~~1.1L~~ 1.1L
Depth to Groundwater (pre install):	1.119	Depth to Groundwater (pre sample): | post	1.385 | 1.440 m
Depth of Hydrasleeve (top):	3.5	Measurment Device:	TSI
Screen Depth:	3m	Retrieval Date:	29/1/24

Time	Total Volume Removed (L)	Temperature (°C)	EC ~~(mS/cm)~~ µS/cm	DO (mg/L)	pH (pH units)	ORP (mV)	
11:29	1.1L	25.5	480.6	2.79	4.95	142.1	

GW Description:	l. brown, sl. turbid – clear
Odour:	nil
Post Sampling GW Depth:	1.440 m

Samples Collected	Analysis	Filtering	Preserative	Laboratory
GW2	TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 metals	Y		SGS
QC1		Y		SGS
QC2		Y		EL

Additional Comments:

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GROUNDWATER MONITORING DATA RECORDING FORM

Client:	Walker	Monitoring Well I.D:	GW3
Site Location:	Rosedale	Sampler:	GW
Project Number:	P23158	Install Date:	19/1/24

Gattic or Standpipe:	SP	Vapours in Well:	-
Standpipe Height (m):	0.92	Checked for Product:	Y
Well Head Integrity:	G	Depth to Product:	nil
Well Diameter:	50 mm	Product Thickness:	nil

Well Depth:	12.845	Hydrasleeve Size:	1 of L
Depth to Groundwater (pre install):	9.240	Depth to Groundwater (pre sample):	9.208
Depth of Hydrasleeve (top):	11.5	Measurment Device:	YSI
Screen Depth:	3m	Retrieval Date:	29/1/24

Time	Total Volume Removed (L)	Temperature (°C)	EC (m/s) mS/cm	DO (mg/L)	pH (pH units)	ORP (mV)	
1:18	1.1 L	21.3	6326	1.84	6.95	110.3	

GW Description:	l.brown, l.turb
Odour:	nil
Post Sampling GW Depth:	9.239

Samples Collected	Analysis	Filtering	Preserative	Laboratory
GW3	TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, h. metals	Y	Y	SGS

Additional Comments:

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GROUNDWATER MONITORING DATA RECORDING FORM

Client:	Walker	Monitoring Well I.D:	GW4
Site Location:	Rosedale	Sampler:	SW
Project Number:	P23158	Install Date:	19/1/24
Gattic or Standpipe:	SP	Vapours in Well:	—
Standpipe Height (m):	0.820	Checked for Product:	Y
Well Head Integrity:	G	Depth to Product:	~1
Well Diameter:	50mm	Product Thickness:	~1
Well Depth: m	28.020	Hydrasleeve Size:	1.1L
Depth to Groundwater (pre install): m	26.508	Depth to Groundwater (pre sample): m	26.517
Depth of Hydrasleeve (top): m	28	Measurment Device:	YSI
Screen Depth:	3m	Retrieval Date:	29/1/24

Time	Total Volume Removed (L)	Temperature (°C)	EC (m/s) mS/cm	DO (mg/L)	pH (pH units)	ORP (mV)	
12:14	1.1L	23.1	6708	1.22	5.68	157.3	

GW Description:	clear
Odour:	organic
Post Sampling GW Depth:	26.556

Samples Collected	Analysis	Filtering	Preserative	Laboratory
GW1	TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, h.metals	Y	Y	SGS

Additional Comments:
installed with top weight
1.5m water about.

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GROUNDWATER MONITORING DATA RECORDING FORM

Client:	Walker	Monitoring Well I.D:	GWS
Site Location:	Rosedale	Sampler:	SW
Project Number:	P22158	Install Date:	19/1/24
Gattic or Standpipe:	SP	Vapours in Well:	—
Standpipe Height (m):	0.60	Checked for Product:	Y
Well Head Integrity:	G	Depth to Product:	nil
Well Diameter:	50mm	Product Thickness:	nil
Well Depth:	9.969	Hydrasleeve Size:	~~1.1L~~ 1.1L
Depth to Groundwater (pre install):	6.648	Depth to Groundwater (pre sample):	6.630
Depth of Hydrasleeve (top):	8.5	Measurment Device:	
Screen Depth:	3m	Retrieval Date:	

Time	Total Volume Removed (L)	Temperature (°C)	EC (m/s) µs/cm	DO (mg/L)	pH (pH units)	ORP (mV)	
	1.1L	24.2	7559	1.40	6.22	165.5	

GW Description:	1.brow, 1.turb ~~1.clear~~
Odour:	organic
Post Sampling GW Depth: m	7.240

Samples Collected	Analysis	Filtering	Preserative	Laboratory
GWS	TPH, BTEX, PAH, OCP/OPP, PCB, Phenols, h.metals	Y	Y	SGS

Additional Comments:

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GROUNDWATER MONITORING DATA RECORDING FORM

Client:	Walker	Monitoring Well I.D:	GW6
Site Location:	Rosedale	Sampler:	SW
Project Number:	P23154	Install Date:	19/1/24
Gattic or Standpipe:	& SP	Vapours in Well:	9
Standpipe Height (m):	0.89	Checked for Product:	no
Well Head Integrity:	G	Depth to Product:	no
Well Diameter:	50mm	Product Thickness:	no
Well Depth:	10.820	Hydrasleeve Size:	~~1m~~ 1.1L
Depth to Groundwater (pre install):	4.355	Depth to Groundwater (pre sample):	4.384
Depth of Hydrasleeve (top):	9.500	Measurment Device:	YSI
Screen Depth:	3m	Retrieval Date:	29/1

Time	Total Volume Removed (L)	Temperature (°C)	EC ~~(m/s)~~ µs/cm	DO (mg/L)	pH (pH units)	ORP (mV)	
2:33	1.1L	20.4	10322	1.59	5.94	90.1	

GW Description:	clear
Odour:	organic
Post Sampling GW Depth:	4.925

Samples Collected	Analysis	Filtering	Preserative	Laboratory
GW6	TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, h.metals	Y	Y	SGS

Additional Comments:

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GROUNDWATER MONITORING DATA RECORDING FORM

Client:	Walker	Monitoring Well I.D:	GW7
Site Location:	Rosedale	Sampler:	SW
Project Number:	P23158	Install Date:	19/1/24
Gattic or Standpipe:	SP	Vapours in Well:	-
Standpipe Height (m):	0.81	Checked for Product:	?
Well Head Integrity:	G	Depth to Product:	n.1
Well Diameter:	50mm	Product Thickness:	n.1
Well Depth:	12.140	Hydrasleeve Size:	~~tbm~~ 1.1L
Depth to Groundwater (pre install):	2.715	Depth to Groundwater (pre sample):	2.760
Depth of Hydrasleeve (top):	10.900	Measurment Device:	YSI
Screen Depth:	3m	Retrieval Date:	29/1

Time	Total Volume Removed (L)	Temperature (°C)	EC ~~(uS/cm)~~ mS/cm	DO (mg/L)	pH (pH units)	ORP (mV)	
3:00	1.1L	20.5	12722	0.80	6.00	164.4	

GW Description:	1.brown, 1.turb - clear
Odour:	organic
Post Sampling GW Depth:	3.455

Samples Collected	Analysis	Filtering	Preserative	Laboratory
GW7	TRH, PAH, BTEX, OCP/OPP, PCB, Phenols, h.metals	Y	Y	SGS

Additional Comments:

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GROUNDWATER MONITORING DATA RECORDING FORM

Client:	Walker	Monitoring Well I.D:	GW8
Site Location:	Rosedale	Sampler:	SW
Project Number:	P23158	Install Date:	19/1/24
Gattic or Standpipe:	SP	Vapours in Well:	—
Standpipe Height (m):	0.850 m	Checked for Product:	~~nil~~ Y
Well Head Integrity:	G	Depth to Product:	nil
Well Diameter:	50 mm	Product Thickness:	nil
Well Depth:	10.780 m	Hydrasleeve Size:	1 of L
Depth to Groundwater (pre install):	0.504 m	Depth to Groundwater (pre sample): m	0.500
Depth of Hydrasleeve (top):	9.500	Measurment Device:	451
Screen Depth:	3 m	Retrieval Date:	29/1

Time	Total Volume Removed (L)	Temperature (°C)	EC ~~(m/s)~~ µS/cm	DO (mg/L)	pH (pH units)	ORP (mV)	
3:20	1-1½	22.4	11998	1-19	6.21	157.8	

GW Description:	1. brown - clear
Odour:	nil
Post Sampling GW Depth:	0.695

Samples Collected	Analysis	Filtering	Preserative	Laboratory
GW8	TRH, BTEX, PAH, OCP/OPP, PCB, Phenols, 8 metals	Y	Y	SGS

Additional Comments:

SEDIMENT SAMPLING FORM

Project No: P23158	**Date:** 12/12/23 – 14/12/23
Site Location: Rosedale	**Sampler:** SW + LB
Client: Walker Rosedale Pty Ltd	

Sample Number	Depth (mbgl)	Sediment Description	PID
CS1-S	0.1	Silty SAND, brown, wet, gravels, organic matter	0.2
CS2-S	0.1	Silty CLAY, dark brown, wet, organic matter	0.1
CS3-S	0.1	Silty CLAY: brown-grey, wet, organic matter	0.4
CS4-S	0.1	Sandy SILT: brown, dry, soft	0.1
CS5-S	0.1	Sandy sily CLAY: grey-brown, wet, soft	0.1
CS6-S	0.1	Sandy sily CLAY: brown, wet, soft	0.3
CS7-S	0.1	Sandy clayey SILT: dark grey-yellow, wet, soft, high organic matter and roots, organic matter odour	0.5
CS8-S	0.1	Sandy clayey SILT: dark grey-black, wet, soft, high organic matter	0.1
CS9-S	0.1	Gravelly sandy SILT: Dark brown, dry, soft-loose	0.1
CS10-S	0.1	Clayey SILT: dark brown, dry-moist, soft	0.2
CS11-S	0.1	Clayey SILT: brown, wet, organic matter	0.1
CS12-S	0.1	Sandy CLAY; orange-brown, wet, organic matter	0.2
DS1-S	0.1	Sandy clayey SILT: dark green, wet, soft, organic matter odour	0.1
DS2-S	0.1	Sandy CLAY: brown-orange, wet, organic matter, organic odour	0.1
DS3-S	0.1	Clayey GRAVEL (FILL): brown, wet. Man-made drainage and wetland.	0.1
DS4-S	0.1	Sandy clayey SILT: dark grey, wet ,soft, high organic matter and roots	0.2
DS5-S	0.1	Sandy, clayey SILT: dark grey, wet, soft, high organic matter and roots	0.1
DS6-S	0.1	Sandy, silty CLAY: dark grey, wet, soft, high organic matter	0.2
DS7-S	0.1	Sandy silty CLAY: dark grey-yellow, wet, soft-plastic, high organic matter	0.2
DS8-S	0.1	Sandy CLAY; brown, wet, organic matter	0.1
DS9-S	0.1	Sandy clayey SILT: dark grey, brown, wet, soft-plastic, high organic matter	0.1

Sample Number	Depth (mbgl)	Sediment Description	PID
DS10-S	0.1	Gravelly sandy CLAY: brown-dark brown	0.1

SURFACE WATER MONITORING DATA RECORDING FORM

Client:	Walker Rosedale		
Site Location:	Rosedale	Sampler:	SW + LB
Project Number:	P23158	Sample Date:	11/12/23 - 14/12/23

Sample ID	Water appearance (colour, turbidity, stagnant/flowing)	Odour	Oil sheen/stain	Temperature (°C)	EC (µs/cm)	DO (mg/L)	pH (pH units)	ORP (mV)
CS1	running, clear	orgnic	nil	23.6	903.0	1.27	5.90	56.4
CS2	dry	No Sample						
CS3	stagnant, brown, moderate turbidity	orgnic	bio sheen	28.6	3808.0	3.06*↓	6.57	27.8*↓
CS5	light brown	orgnic	nil	27.5	1101.0	4.21	6.25	38.2
CS6	stagnant, brown, low turbidity	orgnic	nil	25.8	745.0	2.82*↓	5.97	24.4*↑
CS7	-	orgnic	nil	28.2	566.0	3.22	6.11	92.6
CS8	-	orgnic	nil	26.6	970.0	2.80	6.17	84.5
CS11	stagnant, clear	orgnic	nil	27.1	1027.0	3.45	6.09	16.3
CS12	stagnant, light brown, low turbidity	orgnic	bio sheen	25.4	947.0	0.26	5.60	42.7
DS1	stagnant, brown, low turbidity	orgnic	nil	33.8	291.0	3.96	6.08	-21.1
DS2	clear	orgnic	nil	30.8	1170.0	4.00	5.32	-5.1
DS3	stagnant, brown, low turbidity	orgnic	nil	28.8	306.0	4.00	5.38	26.4
DS4	-	orgnic	nil	28.0	550.0	3.44	6.27	809
DS5	clear	orgnic	nil	27.3	933.0	1.80	6.04	39.3
DS6	-	orgnic	nil	27.8	521.0	3.65	6.33	71.9
DS7	-	orgnic	nil	28.2	277.8	1.43	5.79	72.2
DS8	stagnant, light brown, moderate turbidity	orgnic	bio sheen	22.4	445.0	0.13	6.11	-51.3* ↓
DS9	-	orgnic	nil	29.5	338.5	1.53	5.87	54.9
DS10	light brown	orgnic	nil	28.7	259.5	3.98	6.19	38.6

Additional Comments: * not stabilised after 5 minutes

↓ decreasing

↑ increasing

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Groundwater Wells Development Data

Bore ID	Date	Bore Depth (m)	Groundwater Strike (m)	SWL on Arrival(m)	Volume Removed (L)
GW1	11/12/23	5.927 Temp DO	3.000 EC	2.510 pH ORP	Bore vol = ~7L
very turbid	7.0L	19°C 3.00 mg/L	1363 µs/cm	5.61 -99.8 mV	
	14.0L	17.6 5.92	1296	5.41 -58.2	SWL 2.800
	21.0L	17.8 6.08	1303	5.15 2.4	2.800
	28.0L	23.0	24.5	5.07 109.0	2.800
GW7	14/12/23	12.180	10.5	4.185	
Bore vol =16L	9:31 | 16L	17.3 ~~5.24~~ 4.66	17060	5.36 50.9	clear-m.turb
	9:43 | 8L	17.0 4.33	165	3.38 71.7	h.turb, l.g
				total removed	24L
GW8	14/12/23	10.73 10.92	~~1.582~~ 9.000m	1.582	
	10:57 | 19L	21.0 0.20	9971	5.96 3.4	turb, grey 2.520
	11:15 | 19L	19.4 2.08	11099	5.82 33.9	" " 2.710
	11:25 | 19L	18.2 2.95	10864	5.64 47.8	" " 2.320
				total rem.:	27L
GW5	15/12/23	9.835	8.0	6.850	
	8:22 | 6.0L	12.7 1.57	~~4100~~ 5350	5.89 88.2	9.430
	8:30 | 1.0L	dry			
GW1	3.417	π × ~~0.025~~ 0.025² × 3.417		= 6.7L	
GW7	7.995	~~0.016~~ π × 0.025² × 7.995		= 0.016 = 16L	
GW8	9.148	π × 0.025² × 9.148		= 0.018 = 18L	
GW5	2.985	π × 0.025 × 2.985		= 0.006 = 6L	
GW3	4.125	π × 0.025² × 4.125		= 0.008m³ = 8L	
GW2	3.688	π × 0.025² × 3.688		= 0.007m³ = 7L	
GW6	6.301	π × 0.025² × 6.301		= 0.012m³ = 12L	

-0000671

	SWL on arr. / TEMP	Bore depth / DO mg/L	Water Strike / EC	pH	ORP	Bore vol.	SWL
GW3	8.785	12.860				8 L	
15/12	~~Pump~~	4.77	5807	6.32	108.8		10.000
9:01 | 8L	17.5						
9:09 | ~~16~~ L	17.1	4.54	5797	6.32	111.5		10.000
9:20 | 24L	17.8	4.66	5849	6.34	118.2		10.080
GW2	1.312	5.0		2.0		7L	
9:44 | 7L	~~18.8~~	2.66	554	~~55~~.86	-56.3		1.495
9:53 | 14L	19.3	1.76	450	5.37	18.2		1.830
9:58 | 21L	19.1	2.50	446	5.34	47.6		1.860
GW6	~~4~~.519	10.820				12 L	7.825
10:31 | 12.0L	17.5	3.30	10013	5.77	119.8		9.70 S
10:46 | 24.0L	17.6	3.29	9772	5.78	117.6		
10:50 | 27L	dry						

Laboratory Reports and Chain of Custody Documentation

Appendix H

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	20

LABORATORY DETAILS

Manager	Huong Crawford
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	**SE258531 R0**
Date Received	20/12/2023
Date Reported	19/1/2024

COMMENTS

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

For DS9, Amber bottle was received broken. Only TRH(C6-C9)/BTEX and Metals will be analysed

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Ly Kim HA
Organic Section Head

Teresa NGUYEN
Organic Chemist

VOCs in Water [AN433] Tested: 27/12/2023

PARAMETER	UOM	LOR	CS1 WATER - 12/11/2023 SE258531.001	CS3 WATER - 14/12/2023 SE258531.002	CS5 WATER - 14/12/2023 SE258531.003	CS6 WATER - 14/12/2023 SE258531.004	CS7 WATER - 15/12/2023 SE258531.005
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	<3	<3	<3

PARAMETER	UOM	LOR	CS8 WATER - 15/12/2023 SE258531.006	CS11 WATER - 15/12/2023 SE258531.007	CS12 WATER - 15/12/2023 SE258531.008	DS1 WATER - 15/12/2023 SE258531.009	DS2 WATER - 15/12/2023 SE258531.010
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5	**0.6**	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	<3	<3	<3

PARAMETER	UOM	LOR	DS3 WATER - 15/12/2023 SE258531.011	DS4 WATER - 15/12/2023 SE258531.012	DS5 WATER - 15/12/2023 SE258531.013	DS6 WATER - 15/12/2023 SE258531.014	DS7 WATER - 15/12/2023 SE258531.015
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	<3	<3	<3

PARAMETER	UOM	LOR	DS8 WATER - 15/12/2023 SE258531.016	DS9 WATER - 15/12/2023 SE258531.017	DS10 WATER - 15/12/2023 SE258531.018	QC1 WATER - 15/12/2023 SE258531.019	QC3 WATER - 15/12/2023 SE258531.020
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	**15**	**9.7**	<0.5	<0.5	**14**
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	**15**	**10**	<3	<3	**14**

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 27/12/2023

PARAMETER	UOM	LOR	CS1 WATER - 12/11/2023 SE258531.001	CS3 WATER - 14/12/2023 SE258531.002	CS5 WATER - 14/12/2023 SE258531.003	CS6 WATER - 14/12/2023 SE258531.004	CS7 WATER - 15/12/2023 SE258531.005
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C9	µg/L	40	<40	<40	<40	<40	<40
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

PARAMETER	UOM	LOR	CS8 WATER - 15/12/2023 SE258531.006	CS11 WATER - 15/12/2023 SE258531.007	CS12 WATER - 15/12/2023 SE258531.008	DS1 WATER - 15/12/2023 SE258531.009	DS2 WATER - 15/12/2023 SE258531.010
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C9	µg/L	40	<40	<40	<40	<40	<40
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

PARAMETER	UOM	LOR	DS3 WATER - 15/12/2023 SE258531.011	DS4 WATER - 15/12/2023 SE258531.012	DS5 WATER - 15/12/2023 SE258531.013	DS6 WATER - 15/12/2023 SE258531.014	DS7 WATER - 15/12/2023 SE258531.015
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C9	µg/L	40	<40	<40	<40	<40	<40
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

PARAMETER	UOM	LOR	DS8 WATER - 15/12/2023 SE258531.016	DS9 WATER - 15/12/2023 SE258531.017	DS10 WATER - 15/12/2023 SE258531.018	QC1 WATER - 15/12/2023 SE258531.019	QC3 WATER - 15/12/2023 SE258531.020
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C9	µg/L	40	<40	<40	<40	<40	<40
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: 22/12/2023

PARAMETER	UOM	LOR	CS1 WATER - 12/11/2023 SE258531.001	CS3 WATER - 14/12/2023 SE258531.002	CS5 WATER - 14/12/2023 SE258531.003	CS6 WATER - 14/12/2023 SE258531.004	CS7 WATER - 15/12/2023 SE258531.005
TRH C10-C14	µg/L	50	<50	<50	<50	<50	<50
TRH C15-C28	µg/L	200	<200	**350**	<200	<200	<200
TRH C29-C36	µg/L	200	<200	<200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200	<200
TRH >C10-C16	µg/L	60	<60	**67**	<60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	**67**	<60	<60	<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	<320	**410**	<320	<320	<320

PARAMETER	UOM	LOR	CS8 WATER - 15/12/2023 SE258531.006	CS11 WATER - 15/12/2023 SE258531.007	CS12 WATER - 15/12/2023 SE258531.008	DS1 WATER - 15/12/2023 SE258531.009	DS2 WATER - 15/12/2023 SE258531.010
TRH C10-C14	µg/L	50	<50	<50	**190**	<50	**66**
TRH C15-C28	µg/L	200	<200	<200	**380**	**380**	**350**
TRH C29-C36	µg/L	200	<200	<200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200	<200
TRH >C10-C16	µg/L	60	<60	<60	**210**	<60	**97**
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	**210**	<60	**97**
TRH >C16-C34 (F3)	µg/L	500	<500	<500	<500	**510**	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500	<500
TRH C10-C40	µg/L	320	<320	<320	**750**	**620**	**560**

PARAMETER	UOM	LOR	DS3 WATER - 15/12/2023 SE258531.011	DS4 WATER - 15/12/2023 SE258531.012	DS5 WATER - 15/12/2023 SE258531.013	DS6 WATER - 15/12/2023 SE258531.014	DS7 WATER - 15/12/2023 SE258531.015
TRH C10-C14	µg/L	50	<50	<50	<50	<50	<50
TRH C15-C28	µg/L	200	<200	<200	<200	<200	<200
TRH C29-C36	µg/L	200	<200	<200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200	<200
TRH >C10-C16	µg/L	60	<60	<60	<60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	<60	<60	<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	<320	<320	<320	<320	<320

PARAMETER	UOM	LOR	DS8 WATER - 15/12/2023 SE258531.016	DS9 WATER - 15/12/2023 SE258531.017	DS10 WATER - 15/12/2023 SE258531.018	QC1 WATER - 15/12/2023 SE258531.019	QC3 WATER - 15/12/2023 SE258531.020
TRH C10-C14	µg/L	50	<50	IS	<50	<50	<50
TRH C15-C28	µg/L	200	<200	IS	<200	<200	<200
TRH C29-C36	µg/L	200	<200	IS	<200	<200	<200
TRH C37-C40	µg/L	200	<200	IS	<200	<200	<200
TRH >C10-C16	µg/L	60	<60	IS	<60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	IS	<60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	IS	<500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	IS	<500	<500	<500
TRH C10-C40	µg/L	320	<320	IS	<320	<320	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 22/12/2023

PARAMETER	UOM	LOR	CS1 WATER - 12/11/2023 SE258531.001	CS3 WATER - 14/12/2023 SE258531.002	CS5 WATER - 14/12/2023 SE258531.003	CS6 WATER - 14/12/2023 SE258531.004	CS7 WATER - 15/12/2023 SE258531.005
Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	CS8 WATER - 15/12/2023 SE258531.006	CS11 WATER - 15/12/2023 SE258531.007	CS12 WATER - 15/12/2023 SE258531.008	DS1 WATER - 15/12/2023 SE258531.009	DS2 WATER - 15/12/2023 SE258531.010
Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	**0.1**	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	**0.1**	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1	<1	<1

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 22/12/2023 (continued)

PARAMETER	UOM	LOR	DS3 WATER - 15/12/2023 SE258531.011	DS4 WATER - 15/12/2023 SE258531.012	DS5 WATER - 15/12/2023 SE258531.013	DS6 WATER - 15/12/2023 SE258531.014	DS7 WATER - 15/12/2023 SE258531.015
Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	**0.2**	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	**0.1**	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	**0.2**	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	**0.1**	<0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	DS8 WATER - 15/12/2023 SE258531.016	DS9 WATER - 15/12/2023 SE258531.017	DS10 WATER - 15/12/2023 SE258531.018	QC1 WATER - 15/12/2023 SE258531.019	QC3 WATER - 15/12/2023 SE258531.020
Naphthalene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	IS	**0.1**	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	IS	**0.1**	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	IS	**0.1**	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	IS	<1	<1	<1

Speciated Phenols in Water [AN420] Tested: 22/12/2023

PARAMETER	UOM	LOR	CS1 WATER - 12/11/2023 SE258531.001	CS3 WATER - 14/12/2023 SE258531.002	CS5 WATER - 14/12/2023 SE258531.003	CS6 WATER - 14/12/2023 SE258531.004	CS7 WATER - 15/12/2023 SE258531.005
Phenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	**0.5**
2-methyl phenol (o-cresol)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	µg/L	1	<1	<1	<1	<1	<1
Total Cresol	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	µg/L	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1	<1	<1	<1	<1
Pentachlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	µg/L	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	µg/L	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	CS8 WATER - 15/12/2023 SE258531.006	CS11 WATER - 15/12/2023 SE258531.007	CS12 WATER - 15/12/2023 SE258531.008	DS1 WATER - 15/12/2023 SE258531.009	DS2 WATER - 15/12/2023 SE258531.010
Phenol	µg/L	0.5	<0.5	<0.5	**7.9**	<0.5	<0.5
2-methyl phenol (o-cresol)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	µg/L	1	<1	<1	**31**	<1	<1
Total Cresol	µg/L	1.5	<1.5	<1.5	**31**	<1.5	<1.5
2-chlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	µg/L	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1	<1	<1	<1	<1
Pentachlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	µg/L	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	µg/L	2	<2	<2	<2	<2	<2

Speciated Phenols in Water [AN420] Tested: 22/12/2023 (continued)

PARAMETER	UOM	LOR	DS3 WATER - 15/12/2023 SE258531.011	DS4 WATER - 15/12/2023 SE258531.012	DS5 WATER - 15/12/2023 SE258531.013	DS6 WATER - 15/12/2023 SE258531.014	DS7 WATER - 15/12/2023 SE258531.015
Phenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	µg/L	1	<1	<1	<1	<1	<1
Total Cresol	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	µg/L	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1	<1	<1	<1	<1
Pentachlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	µg/L	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	µg/L	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	DS8 WATER - 15/12/2023 SE258531.016	DS9 WATER - 15/12/2023 SE258531.017	DS10 WATER - 15/12/2023 SE258531.018	QC1 WATER - 15/12/2023 SE258531.019	QC3 WATER - 15/12/2023 SE258531.020
Phenol	µg/L	0.5	<0.5	IS	<0.5	<0.5	**0.6**
2-methyl phenol (o-cresol)	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	µg/L	1	<1	IS	<1	<1	**3**
Total Cresol	µg/L	1.5	<1.5	IS	<1.5	<1.5	**3.4**
2-chlorophenol	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
2,4-dimethylphenol	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
2,6-dichlorophenol	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
2,4-dichlorophenol	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
2-nitrophenol	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
4-nitrophenol	µg/L	1	<1	IS	<1	<1	<1
2,4,5-trichlorophenol	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1	IS	<1	<1	<1
Pentachlorophenol	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
2,4-dinitrophenol	µg/L	2	<2	IS	<2	<2	<2
4-chloro-3-methylphenol	µg/L	2	<2	IS	<2	<2	<2

OC Pesticides in Water [AN420] Tested: 22/12/2023

PARAMETER	UOM	LOR	CS1 WATER - 12/11/2023 SE258531.001	CS3 WATER - 14/12/2023 SE258531.002	CS5 WATER - 14/12/2023 SE258531.003	CS6 WATER - 14/12/2023 SE258531.004	CS7 WATER - 15/12/2023 SE258531.005
Alpha BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC	µg/L	1	<1	<1	<1	<1	<1
Total OC	µg/L	1	<1	<1	<1	<1	<1

OC Pesticides in Water [AN420] Tested: 22/12/2023 (continued)

PARAMETER	UOM	LOR	CS8 WATER - 15/12/2023 SE258531.006	CS11 WATER - 15/12/2023 SE258531.007	CS12 WATER - 15/12/2023 SE258531.008	DS1 WATER - 15/12/2023 SE258531.009	DS2 WATER - 15/12/2023 SE258531.010
Alpha BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC	µg/L	1	<1	<1	<1	<1	<1
Total OC	µg/L	1	<1	<1	<1	<1	<1

OC Pesticides in Water [AN420] Tested: 22/12/2023 (continued)

PARAMETER	UOM	LOR	DS3 WATER - 15/12/2023 SE258531.011	DS4 WATER - 15/12/2023 SE258531.012	DS5 WATER - 15/12/2023 SE258531.013	DS6 WATER - 15/12/2023 SE258531.014	DS7 WATER - 15/12/2023 SE258531.015
Alpha BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC	µg/L	1	<1	<1	<1	<1	<1
Total OC	µg/L	1	<1	<1	<1	<1	<1

OC Pesticides in Water [AN420] Tested: 22/12/2023 (continued)

PARAMETER	UOM	LOR	DS8 WATER - 15/12/2023 SE258531.016	DS9 WATER - 15/12/2023 SE258531.017	DS10 WATER - 15/12/2023 SE258531.018	QC1 WATER - 15/12/2023 SE258531.019	QC3 WATER - 15/12/2023 SE258531.020
Alpha BHC	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	IS	<0.1	<0.1	<0.1
Total OC	µg/L	1	<1	IS	<1	<1	<1
Total OC	µg/L	1	<1	IS	<1	<1	<1

OP Pesticides in Water [AN420] Tested: 22/12/2023

PARAMETER	UOM	LOR	CS1 WATER - 12/11/2023 SE258531.001	CS3 WATER - 14/12/2023 SE258531.002	CS5 WATER - 14/12/2023 SE258531.003	CS6 WATER - 14/12/2023 SE258531.004	CS7 WATER - 15/12/2023 SE258531.005
Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	CS8 WATER - 15/12/2023 SE258531.006	CS11 WATER - 15/12/2023 SE258531.007	CS12 WATER - 15/12/2023 SE258531.008	DS1 WATER - 15/12/2023 SE258531.009	DS2 WATER - 15/12/2023 SE258531.010
Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	DS3 WATER - 15/12/2023 SE258531.011	DS4 WATER - 15/12/2023 SE258531.012	DS5 WATER - 15/12/2023 SE258531.013	DS6 WATER - 15/12/2023 SE258531.014	DS7 WATER - 15/12/2023 SE258531.015
Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

OP Pesticides in Water [AN420] Tested: 22/12/2023 (continued)

PARAMETER	UOM	LOR	DS8 WATER - 15/12/2023 SE258531.016	DS9 WATER - 15/12/2023 SE258531.017	DS10 WATER - 15/12/2023 SE258531.018	QC1 WATER - 15/12/2023 SE258531.019	QC3 WATER - 15/12/2023 SE258531.020
Dichlorvos	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	IS	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	IS	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	IS	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	IS	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	IS	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	IS	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	IS	<0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	IS	<0.2	<0.2	<0.2

PCBs in Water [AN420] Tested: 22/12/2023

PARAMETER	UOM	LOR	CS1 WATER - 12/11/2023 SE258531.001	CS3 WATER - 14/12/2023 SE258531.002	CS5 WATER - 14/12/2023 SE258531.003	CS6 WATER - 14/12/2023 SE258531.004	CS7 WATER - 15/12/2023 SE258531.005
Arochlor 1016	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1221	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1232	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1242	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1248	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1254	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1260	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1262	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1268	µg/L	1	<1	<1	<1	<1	<1
Total Arochlors*	µg/L	5	<5	<5	<5	<5	<5

PARAMETER	UOM	LOR	CS8 WATER - 15/12/2023 SE258531.006	CS11 WATER - 15/12/2023 SE258531.007	CS12 WATER - 15/12/2023 SE258531.008	DS1 WATER - 15/12/2023 SE258531.009	DS2 WATER - 15/12/2023 SE258531.010
Arochlor 1016	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1221	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1232	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1242	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1248	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1254	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1260	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1262	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1268	µg/L	1	<1	<1	<1	<1	<1
Total Arochlors*	µg/L	5	<5	<5	<5	<5	<5

PARAMETER	UOM	LOR	DS3 WATER - 15/12/2023 SE258531.011	DS4 WATER - 15/12/2023 SE258531.012	DS5 WATER - 15/12/2023 SE258531.013	DS6 WATER - 15/12/2023 SE258531.014	DS7 WATER - 15/12/2023 SE258531.015
Arochlor 1016	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1221	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1232	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1242	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1248	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1254	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1260	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1262	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1268	µg/L	1	<1	<1	<1	<1	<1
Total Arochlors*	µg/L	5	<5	<5	<5	<5	<5

PCBs in Water [AN420] Tested: 22/12/2023 (continued)

PARAMETER	UOM	LOR	DS8 WATER - 15/12/2023 SE258531.016	DS9 WATER - 15/12/2023 SE258531.017	DS10 WATER - 15/12/2023 SE258531.018	QC1 WATER - 15/12/2023 SE258531.019	QC3 WATER - 15/12/2023 SE258531.020
Arochlor 1016	µg/L	1	<1	IS	<1	<1	<1
Arochlor 1221	µg/L	1	<1	IS	<1	<1	<1
Arochlor 1232	µg/L	1	<1	IS	<1	<1	<1
Arochlor 1242	µg/L	1	<1	IS	<1	<1	<1
Arochlor 1248	µg/L	1	<1	IS	<1	<1	<1
Arochlor 1254	µg/L	1	<1	IS	<1	<1	<1
Arochlor 1260	µg/L	1	<1	IS	<1	<1	<1
Arochlor 1262	µg/L	1	<1	IS	<1	<1	<1
Arochlor 1268	µg/L	1	<1	IS	<1	<1	<1
Total Arochlors*	µg/L	5	<5	IS	<5	<5	<5

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 22/12/2023

PARAMETER	UOM	LOR	CS1 WATER - 12/11/2023 SE258531.001	CS3 WATER - 14/12/2023 SE258531.002	CS5 WATER - 14/12/2023 SE258531.003	CS6 WATER - 14/12/2023 SE258531.004	CS7 WATER - 15/12/2023 SE258531.005
Arsenic	µg/L	1	<1	1	1	<1	1
Cadmium	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	µg/L	1	<1	<1	<1	<1	<1
Copper	µg/L	1	1	<1	<1	3	2
Lead	µg/L	1	<1	<1	<1	<1	<1
Nickel	µg/L	1	2	1	2	<1	2
Zinc	µg/L	5	<5	<5	<5	6	<5

PARAMETER	UOM	LOR	CS8 WATER - 15/12/2023 SE258531.006	CS11 WATER - 15/12/2023 SE258531.007	CS12 WATER - 15/12/2023 SE258531.008	DS1 WATER - 15/12/2023 SE258531.009	DS2 WATER - 15/12/2023 SE258531.010
Arsenic	µg/L	1	<1	<1	<1	<1	<1
Cadmium	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	µg/L	1	<1	<1	<1	<1	<1
Copper	µg/L	1	<1	1	2	2	1
Lead	µg/L	1	<1	<1	<1	<1	<1
Nickel	µg/L	1	<1	1	<1	<1	3
Zinc	µg/L	5	15	<5	<5	5	35

PARAMETER	UOM	LOR	DS3 WATER - 15/12/2023 SE258531.011	DS4 WATER - 15/12/2023 SE258531.012	DS5 WATER - 15/12/2023 SE258531.013	DS6 WATER - 15/12/2023 SE258531.014	DS7 WATER - 15/12/2023 SE258531.015
Arsenic	µg/L	1	2	1	<1	<1	<1
Cadmium	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	µg/L	1	1	<1	<1	<1	<1
Copper	µg/L	1	21	2	1	1	1
Lead	µg/L	1	<1	<1	<1	<1	<1
Nickel	µg/L	1	2	2	<1	<1	<1
Zinc	µg/L	5	11	16	<5	<5	17

PARAMETER	UOM	LOR	DS8 WATER - 15/12/2023 SE258531.016	DS9 WATER - 15/12/2023 SE258531.017	DS10 WATER - 15/12/2023 SE258531.018	QC1 WATER - 15/12/2023 SE258531.019	QC3 WATER - 15/12/2023 SE258531.020
Arsenic	µg/L	1	<1	<1	<1	1	1
Cadmium	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	µg/L	1	<1	<1	<1	<1	<1
Copper	µg/L	1	1	2	2	2	2
Lead	µg/L	1	<1	<1	<1	<1	<1
Nickel	µg/L	1	<1	2	1	2	2
Zinc	µg/L	5	18	20	16	17	6

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 22/12/2023

PARAMETER	UOM	LOR	CS1 WATER - 12/11/2023 SE258531.001	CS3 WATER - 14/12/2023 SE258531.002	CS5 WATER - 14/12/2023 SE258531.003	CS6 WATER - 14/12/2023 SE258531.004	CS7 WATER - 15/12/2023 SE258531.005
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

PARAMETER	UOM	LOR	CS8 WATER - 15/12/2023 SE258531.006	CS11 WATER - 15/12/2023 SE258531.007	CS12 WATER - 15/12/2023 SE258531.008	DS1 WATER - 15/12/2023 SE258531.009	DS2 WATER - 15/12/2023 SE258531.010
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

PARAMETER	UOM	LOR	DS3 WATER - 15/12/2023 SE258531.011	DS4 WATER - 15/12/2023 SE258531.012	DS5 WATER - 15/12/2023 SE258531.013	DS6 WATER - 15/12/2023 SE258531.014	DS7 WATER - 15/12/2023 SE258531.015
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

PARAMETER	UOM	LOR	DS8 WATER - 15/12/2023 SE258531.016	DS9 WATER - 15/12/2023 SE258531.017	DS10 WATER - 15/12/2023 SE258531.018	QC1 WATER - 15/12/2023 SE258531.019	QC3 WATER - 15/12/2023 SE258531.020
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
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 Recoveerable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
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).
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.

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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STATEMENT OF QA/QC PERFORMANCE

SE258531 R0

CLIENT DETAILS

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Facsimile	(Not specified)
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Project	**P23158**
Order Number	**P23158**
Samples	20

LABORATORY DETAILS

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SGS Reference	**SE258531 R0**
Date Received	20 Dec 2023
Date Reported	19 Jan 2024

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	Mercury (dissolved) in Water	1 item
	OC Pesticides in Water	4 items
	OP Pesticides in Water	4 items
	PAH (Polynuclear Aromatic Hydrocarbons) in Water	4 items
	PCBs in Water	4 items
	Speciated Phenols in Water	1 item
	TRH (Total Recoverable Hydrocarbons) in Water	4 items
	VOCs in Water	1 item
	Volatile Petroleum Hydrocarbons in Water	1 item
Analysis Date	Mercury (dissolved) in Water	1 item
	VOCs in Water	1 item
	Volatile Petroleum Hydrocarbons in Water	2 items

SAMPLE SUMMARY

Sample counts by matrix	20 Water	Type of documentation received	COC
Date documentation received	20/12/2023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	10.9°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		

HOLDING TIME SUMMARY

SE258531 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

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
CS1	SE258531.001	LB300416	12 Nov 2023	20 Dec 2023	10 Dec 2023	22 Dec 2023†	10 Dec 2023	29 Dec 2023†
CS3	SE258531.002	LB300416	14 Dec 2023	20 Dec 2023	11 Jan 2024	22 Dec 2023	11 Jan 2024	29 Dec 2023
CS5	SE258531.003	LB300416	14 Dec 2023	20 Dec 2023	11 Jan 2024	22 Dec 2023	11 Jan 2024	29 Dec 2023
CS6	SE258531.004	LB300416	14 Dec 2023	20 Dec 2023	11 Jan 2024	22 Dec 2023	11 Jan 2024	29 Dec 2023
CS7	SE258531.005	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
CS8	SE258531.006	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
CS11	SE258531.007	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
CS12	SE258531.008	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
DS1	SE258531.009	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
DS2	SE258531.010	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
DS3	SE258531.011	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
DS4	SE258531.012	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
DS5	SE258531.013	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
DS6	SE258531.014	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
DS7	SE258531.015	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
DS8	SE258531.016	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
DS9	SE258531.017	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
DS10	SE258531.018	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
QC1	SE258531.019	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023
QC3	SE258531.020	LB300416	15 Dec 2023	20 Dec 2023	12 Jan 2024	22 Dec 2023	12 Jan 2024	29 Dec 2023

OC Pesticides in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
CS1	SE258531.001	LB300408	12 Nov 2023	20 Dec 2023	19 Nov 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS3	SE258531.002	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS5	SE258531.003	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS6	SE258531.004	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS7	SE258531.005	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS8	SE258531.006	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS11	SE258531.007	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS12	SE258531.008	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS1	SE258531.009	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS2	SE258531.010	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS3	SE258531.011	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS4	SE258531.012	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS5	SE258531.013	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS6	SE258531.014	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS7	SE258531.015	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS8	SE258531.016	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS9	SE258531.017	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	19 Jan 2024
DS10	SE258531.018	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
QC1	SE258531.019	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
QC3	SE258531.020	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023

OP Pesticides in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
CS1	SE258531.001	LB300408	12 Nov 2023	20 Dec 2023	19 Nov 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS3	SE258531.002	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS5	SE258531.003	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS6	SE258531.004	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS7	SE258531.005	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS8	SE258531.006	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS11	SE258531.007	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS12	SE258531.008	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS1	SE258531.009	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS2	SE258531.010	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS3	SE258531.011	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS4	SE258531.012	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS5	SE258531.013	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS6	SE258531.014	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS7	SE258531.015	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023

HOLDING TIME SUMMARY

SE258531 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

OP Pesticides in Water (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
DS8	SE258531.016	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS9	SE258531.017	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	19 Jan 2024
DS10	SE258531.018	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
QC1	SE258531.019	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
QC3	SE258531.020	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023

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
CS1	SE258531.001	LB300408	12 Nov 2023	20 Dec 2023	19 Nov 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS3	SE258531.002	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS5	SE258531.003	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS6	SE258531.004	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS7	SE258531.005	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS8	SE258531.006	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS11	SE258531.007	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS12	SE258531.008	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS1	SE258531.009	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS2	SE258531.010	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS3	SE258531.011	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS4	SE258531.012	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS5	SE258531.013	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS6	SE258531.014	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS7	SE258531.015	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS8	SE258531.016	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS9	SE258531.017	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	19 Jan 2024
DS10	SE258531.018	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
QC1	SE258531.019	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
QC3	SE258531.020	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023

PCBs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
CS1	SE258531.001	LB300408	12 Nov 2023	20 Dec 2023	19 Nov 2023	22 Dec 2023†	31 Jan 2024	28 Dec 2023
CS3	SE258531.002	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	28 Dec 2023
CS5	SE258531.003	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	28 Dec 2023
CS6	SE258531.004	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	28 Dec 2023
CS7	SE258531.005	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
CS8	SE258531.006	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
CS11	SE258531.007	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
CS12	SE258531.008	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS1	SE258531.009	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS2	SE258531.010	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS3	SE258531.011	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS4	SE258531.012	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS5	SE258531.013	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS6	SE258531.014	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS7	SE258531.015	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS8	SE258531.016	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS9	SE258531.017	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	19 Jan 2024
DS10	SE258531.018	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
QC1	SE258531.019	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023
QC3	SE258531.020	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	28 Dec 2023

Speciated Phenols in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
CS1	SE258531.001	LB300408	12 Nov 2023	20 Dec 2023	03 Dec 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS3	SE258531.002	LB300408	14 Dec 2023	20 Dec 2023	04 Jan 2024	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS5	SE258531.003	LB300408	14 Dec 2023	20 Dec 2023	04 Jan 2024	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS6	SE258531.004	LB300408	14 Dec 2023	20 Dec 2023	04 Jan 2024	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS7	SE258531.005	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS8	SE258531.006	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS11	SE258531.007	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	27 Dec 2023

HOLDING TIME SUMMARY

SE258531 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

Speciated Phenols in Water (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
CS12	SE258531.008	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS1	SE258531.009	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS2	SE258531.010	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS3	SE258531.011	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS4	SE258531.012	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS5	SE258531.013	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS6	SE258531.014	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS7	SE258531.015	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS8	SE258531.016	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	28 Dec 2023
DS9	SE258531.017	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS10	SE258531.018	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	28 Dec 2023
QC1	SE258531.019	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	28 Dec 2023
QC3	SE258531.020	LB300408	15 Dec 2023	20 Dec 2023	05 Jan 2024	22 Dec 2023	31 Jan 2024	28 Dec 2023

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
CS1	SE258531.001	LB300398	12 Nov 2023	20 Dec 2023	10 May 2024	22 Dec 2023	10 May 2024	22 Dec 2023
CS3	SE258531.002	LB300398	14 Dec 2023	20 Dec 2023	11 Jun 2024	22 Dec 2023	11 Jun 2024	22 Dec 2023
CS5	SE258531.003	LB300398	14 Dec 2023	20 Dec 2023	11 Jun 2024	22 Dec 2023	11 Jun 2024	22 Dec 2023
CS6	SE258531.004	LB300398	14 Dec 2023	20 Dec 2023	11 Jun 2024	22 Dec 2023	11 Jun 2024	22 Dec 2023
CS7	SE258531.005	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
CS8	SE258531.006	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
CS11	SE258531.007	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
CS12	SE258531.008	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
DS1	SE258531.009	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
DS2	SE258531.010	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
DS3	SE258531.011	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
DS4	SE258531.012	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
DS5	SE258531.013	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
DS6	SE258531.014	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
DS7	SE258531.015	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
DS8	SE258531.016	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
DS9	SE258531.017	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
DS10	SE258531.018	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
QC1	SE258531.019	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023
QC3	SE258531.020	LB300398	15 Dec 2023	20 Dec 2023	12 Jun 2024	22 Dec 2023	12 Jun 2024	22 Dec 2023

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
CS1	SE258531.001	LB300408	12 Nov 2023	20 Dec 2023	19 Nov 2023	22 Dec 2023†	31 Jan 2024	22 Dec 2023
CS3	SE258531.002	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	22 Dec 2023
CS5	SE258531.003	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS6	SE258531.004	LB300408	14 Dec 2023	20 Dec 2023	21 Dec 2023	22 Dec 2023†	31 Jan 2024	27 Dec 2023
CS7	SE258531.005	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS8	SE258531.006	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS11	SE258531.007	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
CS12	SE258531.008	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS1	SE258531.009	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS2	SE258531.010	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS3	SE258531.011	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS4	SE258531.012	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS5	SE258531.013	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS6	SE258531.014	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS7	SE258531.015	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS8	SE258531.016	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
DS9	SE258531.017	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	19 Jan 2024
DS10	SE258531.018	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
QC1	SE258531.019	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023
QC3	SE258531.020	LB300408	15 Dec 2023	20 Dec 2023	22 Dec 2023	22 Dec 2023	31 Jan 2024	27 Dec 2023

HOLDING TIME SUMMARY

SE258531 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

VOCs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
CS1	SE258531.001	LB300549	12 Nov 2023	20 Dec 2023	26 Nov 2023	27 Dec 2023†	26 Nov 2023	28 Dec 2023†
CS3	SE258531.002	LB300549	14 Dec 2023	20 Dec 2023	28 Dec 2023	27 Dec 2023	28 Dec 2023	28 Dec 2023
CS5	SE258531.003	LB300549	14 Dec 2023	20 Dec 2023	28 Dec 2023	27 Dec 2023	28 Dec 2023	28 Dec 2023
CS6	SE258531.004	LB300549	14 Dec 2023	20 Dec 2023	28 Dec 2023	27 Dec 2023	28 Dec 2023	28 Dec 2023
CS7	SE258531.005	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
CS8	SE258531.006	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
CS11	SE258531.007	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
CS12	SE258531.008	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS1	SE258531.009	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS2	SE258531.010	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS3	SE258531.011	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS4	SE258531.012	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS5	SE258531.013	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS6	SE258531.014	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS7	SE258531.015	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS8	SE258531.016	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS9	SE258531.017	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS10	SE258531.018	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
QC1	SE258531.019	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
QC3	SE258531.020	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023

Volatile Petroleum Hydrocarbons in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
CS1	SE258531.001	LB300549	12 Nov 2023	20 Dec 2023	26 Nov 2023	27 Dec 2023†	26 Nov 2023	28 Dec 2023†
CS3	SE258531.002	LB300549	14 Dec 2023	20 Dec 2023	28 Dec 2023	27 Dec 2023	28 Dec 2023	28 Dec 2023
CS5	SE258531.003	LB300549	14 Dec 2023	20 Dec 2023	28 Dec 2023	27 Dec 2023	28 Dec 2023	28 Dec 2023
CS6	SE258531.004	LB300549	14 Dec 2023	20 Dec 2023	28 Dec 2023	27 Dec 2023	28 Dec 2023	28 Dec 2023
CS7	SE258531.005	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
CS8	SE258531.006	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
CS11	SE258531.007	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
CS12	SE258531.008	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS1	SE258531.009	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS2	SE258531.010	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS3	SE258531.011	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS4	SE258531.012	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS5	SE258531.013	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS6	SE258531.014	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS7	SE258531.015	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS8	SE258531.016	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS9	SE258531.017	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
DS10	SE258531.018	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
QC1	SE258531.019	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023
QC3	SE258531.020	LB300549	15 Dec 2023	20 Dec 2023	29 Dec 2023	27 Dec 2023	29 Dec 2023	28 Dec 2023

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Water — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	CS1	SE258531.001	%	40 - 130%	68
	CS3	SE258531.002	%	40 - 130%	76
	CS5	SE258531.003	%	40 - 130%	67
	CS6	SE258531.004	%	40 - 130%	48
	CS7	SE258531.005	%	40 - 130%	65
	CS8	SE258531.006	%	40 - 130%	89
	CS11	SE258531.007	%	40 - 130%	79
	CS12	SE258531.008	%	40 - 130%	58
	DS1	SE258531.009	%	40 - 130%	68
	DS2	SE258531.010	%	40 - 130%	76
	DS3	SE258531.011	%	40 - 130%	71
	DS4	SE258531.012	%	40 - 130%	88
	DS5	SE258531.013	%	40 - 130%	91
	DS6	SE258531.014	%	40 - 130%	66
	DS7	SE258531.015	%	40 - 130%	59
	DS8	SE258531.016	%	40 - 130%	83
	DS10	SE258531.018	%	40 - 130%	70
	QC1	SE258531.019	%	40 - 130%	71
	QC3	SE258531.020	%	40 - 130%	57

OP Pesticides in Water — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	CS1	SE258531.001	%	40 - 130%	51
	CS3	SE258531.002	%	40 - 130%	58
	CS5	SE258531.003	%	40 - 130%	69
	CS6	SE258531.004	%	40 - 130%	46
	CS7	SE258531.005	%	40 - 130%	63
	CS8	SE258531.006	%	40 - 130%	70
	CS11	SE258531.007	%	40 - 130%	72
	CS12	SE258531.008	%	40 - 130%	55
	DS1	SE258531.009	%	40 - 130%	66
	DS2	SE258531.010	%	40 - 130%	71
	DS3	SE258531.011	%	40 - 130%	53
	DS4	SE258531.012	%	40 - 130%	73
	DS5	SE258531.013	%	40 - 130%	58
	DS6	SE258531.014	%	40 - 130%	66
	DS7	SE258531.015	%	40 - 130%	47
	DS8	SE258531.016	%	40 - 130%	70
	DS10	SE258531.018	%	40 - 130%	62
	QC1	SE258531.019	%	40 - 130%	66
	QC3	SE258531.020	%	40 - 130%	55
d14-p-terphenyl (Surrogate)	CS1	SE258531.001	%	40 - 130%	56
	CS3	SE258531.002	%	40 - 130%	66
	CS5	SE258531.003	%	40 - 130%	74
	CS6	SE258531.004	%	40 - 130%	55
	CS7	SE258531.005	%	40 - 130%	68
	CS8	SE258531.006	%	40 - 130%	78
	CS11	SE258531.007	%	40 - 130%	81
	CS12	SE258531.008	%	40 - 130%	67
	DS1	SE258531.009	%	40 - 130%	73
	DS2	SE258531.010	%	40 - 130%	77
	DS3	SE258531.011	%	40 - 130%	62
	DS4	SE258531.012	%	40 - 130%	94
	DS5	SE258531.013	%	40 - 130%	70
	DS6	SE258531.014	%	40 - 130%	74
	DS7	SE258531.015	%	40 - 130%	60
	DS8	SE258531.016	%	40 - 130%	81
	DS10	SE258531.018	%	40 - 130%	71
	QC1	SE258531.019	%	40 - 130%	76
	QC3	SE258531.020	%	40 - 130%	55

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	CS1	SE258531.001	%	40 - 130%	51
	CS3	SE258531.002	%	40 - 130%	58
	CS5	SE258531.003	%	40 - 130%	69
	CS6	SE258531.004	%	40 - 130%	46
	CS7	SE258531.005	%	40 - 130%	63
	CS8	SE258531.006	%	40 - 130%	70
	CS11	SE258531.007	%	40 - 130%	72
	CS12	SE258531.008	%	40 - 130%	55
	DS1	SE258531.009	%	40 - 130%	66
	DS2	SE258531.010	%	40 - 130%	71
	DS3	SE258531.011	%	40 - 130%	53
	DS4	SE258531.012	%	40 - 130%	73
	DS5	SE258531.013	%	40 - 130%	58
	DS6	SE258531.014	%	40 - 130%	66
	DS7	SE258531.015	%	40 - 130%	47
	DS8	SE258531.016	%	40 - 130%	70
	DS10	SE258531.018	%	40 - 130%	62
	QC1	SE258531.019	%	40 - 130%	66
	QC3	SE258531.020	%	40 - 130%	55
d14-p-terphenyl (Surrogate)	CS1	SE258531.001	%	40 - 130%	56
	CS3	SE258531.002	%	40 - 130%	66
	CS5	SE258531.003	%	40 - 130%	74
	CS6	SE258531.004	%	40 - 130%	55
	CS7	SE258531.005	%	40 - 130%	68
	CS8	SE258531.006	%	40 - 130%	78
	CS11	SE258531.007	%	40 - 130%	81
	CS12	SE258531.008	%	40 - 130%	67
	DS1	SE258531.009	%	40 - 130%	73
	DS2	SE258531.010	%	40 - 130%	77
	DS3	SE258531.011	%	40 - 130%	62
	DS4	SE258531.012	%	40 - 130%	94
	DS5	SE258531.013	%	40 - 130%	70
	DS6	SE258531.014	%	40 - 130%	74
	DS7	SE258531.015	%	40 - 130%	60
	DS8	SE258531.016	%	40 - 130%	81
	DS10	SE258531.018	%	40 - 130%	71
	QC1	SE258531.019	%	40 - 130%	76
	QC3	SE258531.020	%	40 - 130%	55
d5-nitrobenzene (Surrogate)	CS1	SE258531.001	%	40 - 130%	53
	CS3	SE258531.002	%	40 - 130%	64
	CS5	SE258531.003	%	40 - 130%	75
	CS6	SE258531.004	%	40 - 130%	51
	CS7	SE258531.005	%	40 - 130%	68
	CS8	SE258531.006	%	40 - 130%	74
	CS11	SE258531.007	%	40 - 130%	77
	CS12	SE258531.008	%	40 - 130%	59
	DS1	SE258531.009	%	40 - 130%	73
	DS2	SE258531.010	%	40 - 130%	76
	DS3	SE258531.011	%	40 - 130%	54
	DS4	SE258531.012	%	40 - 130%	74
	DS5	SE258531.013	%	40 - 130%	57
	DS6	SE258531.014	%	40 - 130%	64
	DS7	SE258531.015	%	40 - 130%	47
	DS8	SE258531.016	%	40 - 130%	73
	DS10	SE258531.018	%	40 - 130%	64
	QC1	SE258531.019	%	40 - 130%	61
	QC3	SE258531.020	%	40 - 130%	52

PCBs in Water

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

Parameter	Sample Name	Sample Number	Units

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Water (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	CS1	SE258531.001	%	40 - 130%	70
	CS3	SE258531.002	%	40 - 130%	78
	CS5	SE258531.003	%	40 - 130%	69
	CS6	SE258531.004	%	40 - 130%	49
	CS7	SE258531.005	%	40 - 130%	67
	CS8	SE258531.006	%	40 - 130%	90
	CS11	SE258531.007	%	40 - 130%	80
	CS12	SE258531.008	%	40 - 130%	60
	DS1	SE258531.009	%	40 - 130%	69
	DS2	SE258531.010	%	40 - 130%	77
	DS3	SE258531.011	%	40 - 130%	77
	DS4	SE258531.012	%	40 - 130%	95
	DS5	SE258531.013	%	40 - 130%	97
	DS6	SE258531.014	%	40 - 130%	70
	DS7	SE258531.015	%	40 - 130%	65
	DS8	SE258531.016	%	40 - 130%	89
	DS10	SE258531.018	%	40 - 130%	76
	QC1	SE258531.019	%	40 - 130%	77
	QC3	SE258531.020	%	40 - 130%	63

Speciated Phenols in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	CS1	SE258531.001	%	40 - 130%	53
	CS3	SE258531.002	%	40 - 130%	68
	CS5	SE258531.003	%	40 - 130%	81
	CS6	SE258531.004	%	40 - 130%	51
	CS7	SE258531.005	%	40 - 130%	71
	CS8	SE258531.006	%	40 - 130%	79
	CS11	SE258531.007	%	40 - 130%	84
	CS12	SE258531.008	%	40 - 130%	63
	DS1	SE258531.009	%	40 - 130%	78
	DS2	SE258531.010	%	40 - 130%	85
	DS3	SE258531.011	%	40 - 130%	62
	DS4	SE258531.012	%	40 - 130%	87
	DS5	SE258531.013	%	40 - 130%	87
	DS6	SE258531.014	%	40 - 130%	69
	DS7	SE258531.015	%	40 - 130%	52
	DS8	SE258531.016	%	40 - 130%	78
	DS10	SE258531.018	%	40 - 130%	69
	QC1	SE258531.019	%	40 - 130%	75
	QC3	SE258531.020	%	40 - 130%	57
d5-phenol (Surrogate)	CS1	SE258531.001	%	20 - 90%	48
	CS3	SE258531.002	%	20 - 90%	65
	CS5	SE258531.003	%	20 - 90%	73
	CS6	SE258531.004	%	20 - 90%	43
	CS7	SE258531.005	%	20 - 90%	67
	CS8	SE258531.006	%	20 - 90%	74
	CS11	SE258531.007	%	20 - 90%	76
	CS12	SE258531.008	%	20 - 90%	66
	DS1	SE258531.009	%	20 - 90%	74
	DS2	SE258531.010	%	20 - 90%	77
	DS3	SE258531.011	%	20 - 90%	61
	DS4	SE258531.012	%	20 - 90%	78
	DS5	SE258531.013	%	20 - 90%	78
	DS6	SE258531.014	%	20 - 90%	63
	DS7	SE258531.015	%	20 - 90%	54
	DS8	SE258531.016	%	20 - 90%	67
	DS10	SE258531.018	%	20 - 90%	57
	QC1	SE258531.019	%	20 - 90%	56
	QC3	SE258531.020	%	20 - 90%	47

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOCs in Water — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	CS1	SE258531.001	%	40 - 130%	92
	CS3	SE258531.002	%	40 - 130%	93
	CS5	SE258531.003	%	40 - 130%	90
	CS6	SE258531.004	%	40 - 130%	91
	CS7	SE258531.005	%	40 - 130%	86
	CS8	SE258531.006	%	40 - 130%	90
	CS11	SE258531.007	%	40 - 130%	93
	CS12	SE258531.008	%	40 - 130%	91
	DS1	SE258531.009	%	40 - 130%	91
	DS2	SE258531.010	%	40 - 130%	90
	DS3	SE258531.011	%	40 - 130%	90
	DS4	SE258531.012	%	40 - 130%	91
	DS5	SE258531.013	%	40 - 130%	90
	DS6	SE258531.014	%	40 - 130%	91
	DS7	SE258531.015	%	40 - 130%	91
	DS8	SE258531.016	%	40 - 130%	91
	DS9	SE258531.017	%	40 - 130%	92
	DS10	SE258531.018	%	40 - 130%	90
	QC1	SE258531.019	%	40 - 130%	89
	QC3	SE258531.020	%	40 - 130%	92
d4-1,2-dichloroethane (Surrogate)	CS1	SE258531.001	%	40 - 130%	99
	CS3	SE258531.002	%	40 - 130%	98
	CS5	SE258531.003	%	40 - 130%	101
	CS6	SE258531.004	%	40 - 130%	99
	CS7	SE258531.005	%	40 - 130%	99
	CS8	SE258531.006	%	40 - 130%	100
	CS11	SE258531.007	%	40 - 130%	100
	CS12	SE258531.008	%	40 - 130%	99
	DS1	SE258531.009	%	40 - 130%	98
	DS2	SE258531.010	%	40 - 130%	100
	DS3	SE258531.011	%	40 - 130%	100
	DS4	SE258531.012	%	40 - 130%	102
	DS5	SE258531.013	%	40 - 130%	102
	DS6	SE258531.014	%	40 - 130%	101
	DS7	SE258531.015	%	40 - 130%	99
	DS8	SE258531.016	%	40 - 130%	101
	DS9	SE258531.017	%	40 - 130%	98
	DS10	SE258531.018	%	40 - 130%	101
	QC1	SE258531.019	%	40 - 130%	101
	QC3	SE258531.020	%	40 - 130%	101
d8-toluene (Surrogate)	CS1	SE258531.001	%	40 - 130%	98
	CS3	SE258531.002	%	40 - 130%	98
	CS5	SE258531.003	%	40 - 130%	98
	CS6	SE258531.004	%	40 - 130%	98
	CS7	SE258531.005	%	40 - 130%	94
	CS8	SE258531.006	%	40 - 130%	97
	CS11	SE258531.007	%	40 - 130%	98
	CS12	SE258531.008	%	40 - 130%	97
	DS1	SE258531.009	%	40 - 130%	98
	DS2	SE258531.010	%	40 - 130%	98
	DS3	SE258531.011	%	40 - 130%	96
	DS4	SE258531.012	%	40 - 130%	97
	DS5	SE258531.013	%	40 - 130%	98
	DS6	SE258531.014	%	40 - 130%	97
	DS7	SE258531.015	%	40 - 130%	98
	DS8	SE258531.016	%	40 - 130%	98
	DS9	SE258531.017	%	40 - 130%	98
	DS10	SE258531.018	%	40 - 130%	96
	QC1	SE258531.019	%	40 - 130%	96
	QC3	SE258531.020	%	40 - 130%	98

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Water — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	CS1	SE258531.001	%	40 - 130%	92
	CS3	SE258531.002	%	40 - 130%	93
	CS5	SE258531.003	%	40 - 130%	90
	CS6	SE258531.004	%	40 - 130%	91
	CS7	SE258531.005	%	40 - 130%	86
	CS8	SE258531.006	%	40 - 130%	90
	CS11	SE258531.007	%	40 - 130%	93
	CS12	SE258531.008	%	40 - 130%	91
	DS1	SE258531.009	%	40 - 130%	91
	DS2	SE258531.010	%	40 - 130%	90
	DS3	SE258531.011	%	40 - 130%	90
	DS4	SE258531.012	%	40 - 130%	91
	DS5	SE258531.013	%	40 - 130%	90
	DS6	SE258531.014	%	40 - 130%	91
	DS7	SE258531.015	%	40 - 130%	91
	DS8	SE258531.016	%	40 - 130%	91
	DS9	SE258531.017	%	40 - 130%	92
	DS10	SE258531.018	%	40 - 130%	90
	QC1	SE258531.019	%	40 - 130%	89
	QC3	SE258531.020	%	40 - 130%	92
d4-1,2-dichloroethane (Surrogate)	CS1	SE258531.001	%	60 - 130%	99
	CS3	SE258531.002	%	60 - 130%	98
	CS5	SE258531.003	%	60 - 130%	101
	CS6	SE258531.004	%	60 - 130%	99
	CS7	SE258531.005	%	60 - 130%	99
	CS8	SE258531.006	%	60 - 130%	100
	CS11	SE258531.007	%	60 - 130%	100
	CS12	SE258531.008	%	60 - 130%	99
	DS1	SE258531.009	%	60 - 130%	98
	DS2	SE258531.010	%	60 - 130%	100
	DS3	SE258531.011	%	60 - 130%	100
	DS4	SE258531.012	%	60 - 130%	102
	DS5	SE258531.013	%	60 - 130%	102
	DS6	SE258531.014	%	60 - 130%	101
	DS7	SE258531.015	%	60 - 130%	99
	DS8	SE258531.016	%	60 - 130%	101
	DS9	SE258531.017	%	60 - 130%	98
	DS10	SE258531.018	%	60 - 130%	101
	QC1	SE258531.019	%	60 - 130%	101
	QC3	SE258531.020	%	60 - 130%	101
d8-toluene (Surrogate)	CS1	SE258531.001	%	40 - 130%	98
	CS3	SE258531.002	%	40 - 130%	98
	CS5	SE258531.003	%	40 - 130%	98
	CS6	SE258531.004	%	40 - 130%	98
	CS7	SE258531.005	%	40 - 130%	94
	CS8	SE258531.006	%	40 - 130%	97
	CS11	SE258531.007	%	40 - 130%	98
	CS12	SE258531.008	%	40 - 130%	97
	DS1	SE258531.009	%	40 - 130%	98
	DS2	SE258531.010	%	40 - 130%	98
	DS3	SE258531.011	%	40 - 130%	96
	DS4	SE258531.012	%	40 - 130%	97
	DS5	SE258531.013	%	40 - 130%	98
	DS6	SE258531.014	%	40 - 130%	97
	DS7	SE258531.015	%	40 - 130%	98
	DS8	SE258531.016	%	40 - 130%	98
	DS9	SE258531.017	%	40 - 130%	98
	DS10	SE258531.018	%	40 - 130%	96
	QC1	SE258531.019	%	40 - 130%	96
	QC3	SE258531.020	%	40 - 130%	98

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
LB300416.001	Mercury	mg/L	0.0001	<0.0001

OC Pesticides in Water

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

Sample Number		Parameter	Units	LOR	Result
LB300408.001		Alpha BHC	µg/L	0.1	<0.1
		Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
		Beta BHC	µg/L	0.1	<0.1
		Lindane (gamma BHC)	µg/L	0.1	<0.1
		Delta BHC	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Aldrin	µg/L	0.1	<0.1
		Isodrin	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Gamma Chlordane	µg/L	0.1	<0.1
		Alpha Chlordane	µg/L	0.1	<0.1
		Alpha Endosulfan	µg/L	0.1	<0.1
		p,p'-DDE	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Beta Endosulfan	µg/L	0.1	<0.1
		p,p'-DDD	µg/L	0.1	<0.1
		Endrin aldehyde	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		p,p'-DDT	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	97

OP Pesticides in Water

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

Sample Number		Parameter	Units	LOR	Result
LB300408.001		Azinphos-methyl	µg/L	0.2	<0.2
		Bromophos Ethyl	µg/L	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Dichlorvos	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Fenitrothion	µg/L	0.2	<0.2
		Malathion	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5
		Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	68
		d14-p-terphenyl (Surrogate)	%	-	76

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result
LB300408.001	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

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 Water (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB300408.001		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)	%	-	73
		2-fluorobiphenyl (Surrogate)	%	-	68
		d14-p-terphenyl (Surrogate)	%	-	76

PCBs in Water

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

Sample Number	Parameter	Units	LOR	Result
LB300408.001	Arochlor 1016	µg/L	1	<1
	Arochlor 1221	µg/L	1	<1
	Arochlor 1232	µg/L	1	<1
	Arochlor 1242	µg/L	1	<1
	Arochlor 1248	µg/L	1	<1
	Arochlor 1254	µg/L	1	<1
	Arochlor 1260	µg/L	1	<1
	Arochlor 1262	µg/L	1	<1
	Arochlor 1268	µg/L	1	<1

Speciated Phenols in Water

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

Sample Number		Parameter	Units	LOR	Result
LB300408.001		Phenol	µg/L	0.5	<0.5
		2-methyl phenol (o-cresol)	µg/L	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	µg/L	1	<1
		2-chlorophenol	µg/L	0.5	<0.5
		2,4-dimethylphenol	µg/L	0.5	<0.5
		2,6-dichlorophenol	µg/L	0.5	<0.5
		2,4-dichlorophenol	µg/L	0.5	<0.5
		4-chloro-3-methylphenol	µg/L	2	<2
		2,4,6-trichlorophenol	µg/L	0.5	<0.5
		2-nitrophenol	µg/L	0.5	<0.5
		4-nitrophenol	µg/L	1	<1
		2,4,5-trichlorophenol	µg/L	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1
		Pentachlorophenol	µg/L	0.5	<0.5
		2,4-dinitrophenol	µg/L	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	119
		d5-phenol (Surrogate)	%	-	117

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB300398.001	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
LB300398.025	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
LB300408.001	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

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

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

Sample Number		Parameter	Units	LOR	Result
LB300549.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
		d8-toluene (Surrogate)	%	-	95
		Bromofluorobenzene (Surrogate)	%	-	89

Volatile Petroleum Hydrocarbons in Water

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

Sample Number		Parameter	Units	LOR	Result
LB300549.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
		d8-toluene (Surrogate)	%	-	95
		Bromofluorobenzene (Surrogate)	%	-	89

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.010	LB300416.014	Mercury	µg/L	0.0001	<0.0001	<0.0001	162	0
SE258531.020	LB300416.027	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	0

OC Pesticides in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.006	LB300408.028		Alpha BHC	µg/L	0.1	<0.1	0	200	0
			Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	0	200	0
			Beta BHC	µg/L	0.1	<0.1	0.0327710441	200	0
			Lindane (gamma BHC)	µg/L	0.1	<0.1	0	200	0
			Delta BHC	µg/L	0.1	<0.1	0.0164023199	200	0
			Heptachlor	µg/L	0.1	<0.1	0.0028818935	200	0
			Aldrin	µg/L	0.1	<0.1	0.0141549378	200	0
			Isodrin	µg/L	0.1	<0.1	0.0443718760	200	0
			Heptachlor epoxide	µg/L	0.1	<0.1	0	200	0
			Gamma Chlordane	µg/L	0.1	<0.1	0.0050320732	200	0
			Alpha Chlordane	µg/L	0.1	<0.1	0	200	0
			Alpha Endosulfan	µg/L	0.1	<0.1	0.0014843189	200	0
			o,p'-DDE	µg/L	0.1	<0.1	0	200	0
			p,p'-DDE	µg/L	0.1	<0.1	0.0482337982	200	0
			Dieldrin	µg/L	0.1	<0.1	0.0035348637	200	0
			Endrin	µg/L	0.1	<0.1	0.0140416835	200	0
			Beta Endosulfan	µg/L	0.1	<0.1	0.0114625574	200	0
			o,p'-DDD	µg/L	0.1	<0.1	0.0068337740	200	0
			p,p'-DDD	µg/L	0.1	<0.1	0.0109109932	200	0
			Endrin aldehyde	µg/L	0.1	<0.1	0.0332704800	200	0
			Endosulfan sulphate	µg/L	0.1	<0.1	0	200	0
			o,p'-DDT	µg/L	0.1	<0.1	0	200	0
			p,p'-DDT	µg/L	0.1	<0.1	0	200	0
			Endrin ketone	µg/L	0.1	<0.1	0.0073275755	200	0
			Methoxychlor	µg/L	0.1	<0.1	0.0059189407	200	0
			Mirex	µg/L	0.1	<0.1	0.0323044430	200	0
			trans-Nonachlor	µg/L	0.1	<0.1	0	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.13	0.1143207970	30	16
SE258531.013	LB300408.030		Alpha BHC	µg/L	0.1	<0.1	0.0228337151	200	0
			Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	0	200	0
			Beta BHC	µg/L	0.1	<0.1	0.0105301606	200	0
			Lindane (gamma BHC)	µg/L	0.1	<0.1	0.0039688686	200	0
			Delta BHC	µg/L	0.1	<0.1	0.0165499140	200	0
			Heptachlor	µg/L	0.1	<0.1	0.0046241819	200	0
			Aldrin	µg/L	0.1	<0.1	0.0216306266	200	0
			Isodrin	µg/L	0.1	<0.1	0.0279138009	200	0
			Heptachlor epoxide	µg/L	0.1	<0.1	0	200	0
			Gamma Chlordane	µg/L	0.1	<0.1	0	200	0
			Alpha Chlordane	µg/L	0.1	<0.1	0	200	0
			Alpha Endosulfan	µg/L	0.1	<0.1	0.0065105379	200	0
			o,p'-DDE	µg/L	0.1	<0.1	0.0065105379	200	0
			p,p'-DDE	µg/L	0.1	<0.1	0.0259781569	200	0
			Dieldrin	µg/L	0.1	<0.1	0.0020173591	200	0
			Endrin	µg/L	0.1	<0.1	0	200	0
			Beta Endosulfan	µg/L	0.1	<0.1	0	200	0
			o,p'-DDD	µg/L	0.1	<0.1	0	200	0
			p,p'-DDD	µg/L	0.1	<0.1	0	200	0
			Endrin aldehyde	µg/L	0.1	<0.1	0	200	0
			Endosulfan sulphate	µg/L	0.1	<0.1	0	200	0
			o,p'-DDT	µg/L	0.1	<0.1	0	200	0
			p,p'-DDT	µg/L	0.1	<0.1	0	200	0
			Endrin ketone	µg/L	0.1	<0.1	0	200	0
			Methoxychlor	µg/L	0.1	<0.1	0.0050540054	200	0
			Mirex	µg/L	0.1	<0.1	0	200	0
			trans-Nonachlor	µg/L	0.1	<0.1	0	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Water (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.013	LB300408.030	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.14	0.1132948334	30	18

OP Pesticides in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.006	LB300408.029		Azinphos-methyl	µg/L	0.2	<0.2	0.0048791644	200	0
			Bromophos Ethyl	µg/L	0.2	<0.2	0.0002585898	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	0.0025487388	200	0
			Diazinon (Dimpylate)	µg/L	0.5	<0.5	0	200	0
			Dichlorvos	µg/L	0.5	<0.5	0	200	0
			Dimethoate	µg/L	0.5	<0.5	0.0166025113	200	0
			Ethion	µg/L	0.2	<0.2	0.0021882576	200	0
			Fenitrothion	µg/L	0.2	<0.2	0.0216676078	200	0
			Malathion	µg/L	0.2	<0.2	0.0049293052	200	0
			Methidathion	µg/L	0.5	<0.5	0.0034032966	200	0
			Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	0	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.4049880823	30	15
			d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.4370485171	30	11
SE258531.013	LB300408.031		Azinphos-methyl	µg/L	0.2	<0.2	0	200	0
			Bromophos Ethyl	µg/L	0.2	<0.2	0.0010757057	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	0.0221604963	200	0
			Diazinon (Dimpylate)	µg/L	0.5	<0.5	0	200	0
			Dichlorvos	µg/L	0.5	<0.5	0	200	0
			Dimethoate	µg/L	0.5	<0.5	0	200	0
			Ethion	µg/L	0.2	<0.2	0.0125113050	200	0
			Fenitrothion	µg/L	0.2	<0.2	0.0079482206	200	0
			Malathion	µg/L	0.2	<0.2	0	200	0
			Methidathion	µg/L	0.5	<0.5	0.0049779164	200	0
			Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	0	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.3586532693	30	21
			d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.4376488838	30	22

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.006	LB300408.029		Naphthalene	µg/L	0.1	<0.1	0.0051543201	200	0
			2-methylnaphthalene	µg/L	0.1	<0.1	0.0023830325	200	0
			1-methylnaphthalene	µg/L	0.1	<0.1	0.0024592952	200	0
			Acenaphthylene	µg/L	0.1	<0.1	0.0008515912	200	0
			Acenaphthene	µg/L	0.1	<0.1	0.0022067184	200	0
			Fluorene	µg/L	0.1	<0.1	0.0010418260	200	0
			Phenanthrene	µg/L	0.1	<0.1	0.0028053846	200	0
			Anthracene	µg/L	0.1	<0.1	0.0002845910	200	0
			Fluoranthene	µg/L	0.1	<0.1	0.0012546496	200	0
			Pyrene	µg/L	0.1	<0.1	0.0011988764	200	0
			Benzo(a)anthracene	µg/L	0.1	<0.1	0.0120124588	200	0
			Chrysene	µg/L	0.1	<0.1	0.0139633875	200	0
			Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	0	200	0
			Benzo(k)fluoranthene	µg/L	0.1	<0.1	0.0003412056	200	0
			Benzo(a)pyrene	µg/L	0.1	<0.1	0.0006458920	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	0.0001787496	200	0
			Benzo(ghi)perylene	µg/L	0.1	<0.1	0.0005424042	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.4	0.4287522732	30	15
			2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.4049880823	30	15
			d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.4370485171	30	11
SE258531.013	LB300408.031		Naphthalene	µg/L	0.1	<0.1	0.0047994406	200	0
			2-methylnaphthalene	µg/L	0.1	<0.1	0.0015501265	200	0
			1-methylnaphthalene	µg/L	0.1	<0.1	0.0023852382	200	0
			Acenaphthylene	µg/L	0.1	<0.1	0	200	0
			Acenaphthene	µg/L	0.1	<0.1	0.0014882805	200	0
			Fluorene	µg/L	0.1	<0.1	0.0028631695	200	0
			Phenanthrene	µg/L	0.1	<0.1	0.0059862628	200	0
			Anthracene	µg/L	0.1	<0.1	0.0005968704	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.013	LB300408.031		Fluoranthene	µg/L	0.1	<0.1	0.0038710080	200	0
			Pyrene	µg/L	0.1	<0.1	0.0046810721	200	0
			Benzo(a)anthracene	µg/L	0.1	<0.1	0.0167614172	200	0
			Chrysene	µg/L	0.1	<0.1	0.0165623995	200	0
			Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	0.0068569656	200	0
			Benzo(k)fluoranthene	µg/L	0.1	<0.1	0.0024447463	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	0.0037256481	200	0
			Dibenzo(ah)anthracene	µg/L	0.1	<0.1	0.0003913663	200	0
			Benzo(ghi)perylene	µg/L	0.1	<0.1	0.0038198754	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.3773641431	30	27
			2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.3586532693	30	21
			d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.4376488838	30	22

PCBs in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.006	LB300408.028		Arochlor 1016	µg/L	1	<1	0	200	0
			Arochlor 1221	µg/L	1	<1	0	200	0
			Arochlor 1232	µg/L	1	<1	0	200	0
			Arochlor 1242	µg/L	1	<1	0	200	0
			Arochlor 1248	µg/L	1	<1	0	200	0
			Arochlor 1254	µg/L	1	<1	0	200	0
			Arochlor 1260	µg/L	1	<1	0	200	0
			Arochlor 1262	µg/L	1	<1	0	200	0
			Arochlor 1268	µg/L	1	<1	0	200	0
		Surrogates	TCMX (Surrogate)	µg/L	-	0.1	0.1165946065	30	15
SE258531.013	LB300408.030		Arochlor 1016	µg/L	1	<1	0	200	0
			Arochlor 1221	µg/L	1	<1	0	200	0
			Arochlor 1232	µg/L	1	<1	0	200	0
			Arochlor 1242	µg/L	1	<1	0	200	0
			Arochlor 1248	µg/L	1	<1	0	200	0
			Arochlor 1254	µg/L	1	<1	0	200	0
			Arochlor 1260	µg/L	1	<1	0	200	0
			Arochlor 1262	µg/L	1	<1	0	200	0
			Arochlor 1268	µg/L	1	<1	0	200	0
		Surrogates	TCMX (Surrogate)	µg/L	-	0.1	0.1234335005	30	17

Speciated Phenols in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.006	LB300408.028		Phenol	µg/L	0.5	<0.5	0.0625	200	0
			2-methyl phenol (o-cresol)	µg/L	0.5	<0.5	0	200	0
			3/4-methyl phenol (m/p-cresol)	µg/L	1	<1	0	200	0
			Total Cresol	µg/L	1.5	<1.5	0	200	0
			2-chlorophenol	µg/L	0.5	<0.5	0	200	0
			2,4-dimethylphenol	µg/L	0.5	<0.5	0	200	0
			2,6-dichlorophenol	µg/L	0.5	<0.5	0	200	0
			2,4-dichlorophenol	µg/L	0.5	<0.5	0	200	0
			4-chloro-3-methylphenol	µg/L	2	<2	0	200	0
			2,4,6-trichlorophenol	µg/L	0.5	<0.5	0	200	0
			2-nitrophenol	µg/L	0.5	<0.5	0	200	0
			4-nitrophenol	µg/L	1	<1	0	200	0
			2,4,5-trichlorophenol	µg/L	0.5	<0.5	0	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1	0	200	0
			Pentachlorophenol	µg/L	0.5	<0.5	0	200	0
			2,4-dinitrophenol	µg/L	2	<2	0	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	µg/L	-	4.0	4.58	30	15
			d5-phenol (Surrogate)	µg/L	-	1.5	1.61	30	8
SE258531.013	LB300408.029		Phenol	µg/L	0.5	<0.5	0.125	200	0
			2-methyl phenol (o-cresol)	µg/L	0.5	<0.5	0	200	0
			3/4-methyl phenol (m/p-cresol)	µg/L	1	<1	0	200	0
			Total Cresol	µg/L	1.5	<1.5	0	200	0
			2-chlorophenol	µg/L	0.5	<0.5	0	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Speciated Phenols in Water (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.013	LB300408.029		2,4-dimethylphenol	µg/L	0.5	<0.5	0	200	0
			2,6-dichlorophenol	µg/L	0.5	<0.5	0	200	0
			2,4-dichlorophenol	µg/L	0.5	<0.5	0	200	0
			4-chloro-3-methylphenol	µg/L	2	<2	0	200	0
			2,4,6-trichlorophenol	µg/L	0.5	<0.5	0	200	0
			2-nitrophenol	µg/L	0.5	<0.5	0	200	0
			4-nitrophenol	µg/L	1	<1	0	200	0
			2,4,5-trichlorophenol	µg/L	0.5	<0.5	0	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1	0	200	0
			Pentachlorophenol	µg/L	0.5	<0.5	0	200	0
			2,4-dinitrophenol	µg/L	2	<2	0	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	µg/L	-	4.4	3.29	30	28
			d5-phenol (Surrogate)	µg/L	-	1.6	1.25	30	22

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.008	LB300398.014	Arsenic	µg/L	1	<1	<1	182	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	2	2	73	1
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	<1	<1	121	0
		Zinc	µg/L	5	<5	<5	200	0
SE258531.018	LB300398.028	Arsenic	µg/L	1	<1	<1	153	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	2	2	70	10
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	1	<1	115	6
		Zinc	µg/L	5	16	12	51	26
SE258531.020	LB300398.031	Arsenic	µg/L	1	1	<1	114	3
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	2	2	76	16
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	2	2	70	12
		Zinc	µg/L	5	6	6	94	2

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.006	LB300408.028		TRH C10-C14	µg/L	50	<50	<50	200	0
			TRH C15-C28	µg/L	200	<200	<200	200	0
			TRH C29-C36	µg/L	200	<200	<200	200	0
			TRH C37-C40	µg/L	200	<200	<200	200	0
			TRH C10-C40	µg/L	320	<320	<320	200	0
		TRH F Bands	TRH >C10-C16	µg/L	60	<60	<60	200	0
			TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	200	0
			TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
			TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0
SE258531.013	LB300408.029		TRH C10-C14	µg/L	50	<50	<50	200	0
			TRH C15-C28	µg/L	200	<200	<200	200	0
			TRH C29-C36	µg/L	200	<200	<200	200	0
			TRH C37-C40	µg/L	200	<200	<200	200	0
			TRH C10-C40	µg/L	320	<320	<320	200	0
		TRH F Bands	TRH >C10-C16	µg/L	60	<60	<60	200	0
			TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	200	0
			TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
			TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

VOCs in Water

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

Original	Duplicate	Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.016	LB300549.026	Monocyclic	Benzene	µg/L	0.5	<0.5	0	200	0
		Aromatic	Toluene	µg/L	0.5	15	14.211431699(	33	5
			Ethylbenzene	µg/L	0.5	<0.5	0.0140503633	200	0
			m/p-xylene	µg/L	1	<1	0.0201451733	200	0
			o-xylene	µg/L	0.5	<0.5	0.0088041890	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	0.0662104687	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	0.0	10.4416200591	30	4
			d8-toluene (Surrogate)	µg/L	-	0.0	9.7233184955	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	8.7953569429	30	3
		Totals	Total BTEX	µg/L	3	15	14.211431699(	51	5
SE258531.020	LB300549.027	Monocyclic	Benzene	µg/L	0.5	<0.5	0	200	0
		Aromatic	Toluene	µg/L	0.5	14	13.3312186685	34	4
			Ethylbenzene	µg/L	0.5	<0.5	0.0138238669	200	0
			m/p-xylene	µg/L	1	<1	0.0106913417	200	0
			o-xylene	µg/L	0.5	<0.5	0.0034945778	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	0.0298561033	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	0.0	10.746826830(	30	6
			d8-toluene (Surrogate)	µg/L	-	0.0	9.9770396150	30	2
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	8.9829780892	30	2
		Totals	Total BTEX	µg/L	3	14	13.3312186685	52	4

Volatile Petroleum Hydrocarbons in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258531.016	LB300549.026		TRH C6-C10	µg/L	50	<50	31.7785519246	200	0
			TRH C6-C9	µg/L	40	<40	28.2186002372	186	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	0.0	10.4416200591	30	4
			d8-toluene (Surrogate)	µg/L	-	0.0	9.7233184955	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	8.7953569429	30	3
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	0	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	17.5671202256	200	0
SE258531.020	LB300549.027		TRH C6-C10	µg/L	50	<50	28.7735516075	200	0
			TRH C6-C9	µg/L	40	<40	25.3942959672	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	0.0	10.746826830(	30	6
			d8-toluene (Surrogate)	µg/L	-	0.0	9.9770396150	30	2
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	8.9829780892	30	2
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	0	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	15.4423329390	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.

OC Pesticides in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300408.002		Delta BHC	µg/L	0.1	0.2	0.2	60 - 140	93
		Heptachlor	µg/L	0.1	0.2	0.2	60 - 140	97
		Aldrin	µg/L	0.1	0.2	0.2	60 - 140	96
		Dieldrin	µg/L	0.1	0.2	0.2	60 - 140	94
		Endrin	µg/L	0.1	0.2	0.2	60 - 140	91
		p,p'-DDT	µg/L	0.1	0.2	0.2	60 - 140	98
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.15	0.15	40 - 130	103

OP Pesticides in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300408.002		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	7.2	8	60 - 140	90
		Diazinon (Dimpylate)	µg/L	0.5	7.7	8	60 - 140	96
		Dichlorvos	µg/L	0.5	6.3	8	60 - 140	78
		Ethion	µg/L	0.2	8.2	8	60 - 140	102
	Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	57
		d14-p-terphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	52

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300408.002		Naphthalene	µg/L	0.1	26	40	60 - 140	66
		Acenaphthylene	µg/L	0.1	28	40	60 - 140	70
		Acenaphthene	µg/L	0.1	28	40	60 - 140	69
		Phenanthrene	µg/L	0.1	27	40	60 - 140	67
		Anthracene	µg/L	0.1	27	40	60 - 140	67
		Fluoranthene	µg/L	0.1	29	40	60 - 140	72
		Pyrene	µg/L	0.1	26	40	60 - 140	64
		Benzo(a)pyrene	µg/L	0.1	30	40	60 - 140	75
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.5	40 - 130	53
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	57
		d14-p-terphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	52

PCBs in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300408.002	Arochlor 1260	µg/L	1	<1	0.4	60 - 140	98

Speciated Phenols in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300408.002		Phenol	µg/L	0.5	48	40	60 - 140	121
		2,4-dichlorophenol	µg/L	0.5	53	40	60 - 140	132
		2,4,6-trichlorophenol	µg/L	0.5	44	40	60 - 140	110
		Pentachlorophenol	µg/L	0.5	44	40	60 - 140	111
	Surrogates	2,4,6-Tribromophenol (Surrogate)	µg/L	-	5.1	5	40 - 130	103
		d5-phenol (Surrogate)	µg/L	-	2.3	2	40 - 130	115

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300398.002	Arsenic	µg/L	1	21	20	80 - 120	105
	Cadmium	µg/L	0.1	22	20	80 - 120	108
	Chromium	µg/L	1	21	20	80 - 120	103
	Copper	µg/L	1	20	20	80 - 120	102
	Lead	µg/L	1	22	20	80 - 120	109
	Nickel	µg/L	1	22	20	80 - 120	109
	Zinc	µg/L	5	20	20	80 - 120	102
LB300398.026	Arsenic	µg/L	1	20	20	80 - 120	101
	Cadmium	µg/L	0.1	21	20	80 - 120	103
	Chromium	µg/L	1	20	20	80 - 120	101
	Copper	µg/L	1	20	20	80 - 120	100
	Lead	µg/L	1	21	20	80 - 120	103
	Nickel	µg/L	1	21	20	80 - 120	105
	Zinc	µg/L	5	21	20	80 - 120	105

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300408.002		TRH C10-C14	µg/L	50	920	1200	60 - 140	76
		TRH C15-C28	µg/L	200	1200	1200	60 - 140	101
		TRH C29-C36	µg/L	200	1200	1200	60 - 140	104
	TRH F Bands	TRH >C10-C16	µg/L	60	1100	1200	60 - 140	88
		TRH >C16-C34 (F3)	µg/L	500	1300	1200	60 - 140	109
		TRH >C34-C40 (F4)	µg/L	500	710	600	60 - 140	118

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300549.002	Monocyclic Aromatic	Benzene	µg/L	0.5	56	45.45	60 - 140	123
		Toluene	µg/L	0.5	57	45.45	60 - 140	125
		Ethylbenzene	µg/L	0.5	51	45.45	60 - 140	112
		m/p-xylene	µg/L	1	100	90.9	60 - 140	114
		o-xylene	µg/L	0.5	51	45.45	60 - 140	113

Volatile Petroleum Hydrocarbons in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300549.002		TRH C6-C10	µg/L	50	720	946.63	60 - 140	76
		TRH C6-C9	µg/L	40	620	818.71	60 - 140	76
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	400	639.67	60 - 140	63

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258531.001	LB300416.004	Mercury	mg/L	0.0001	0.0017	<0.0001	0.008	87

OP Pesticides in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE258531.018	LB300408.032		Azinphos-methyl	µg/L	0.2	<0.2	-	-
			Bromophos Ethyl	µg/L	0.2	<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	8	101
			Diazinon (Dimpylate)	µg/L	0.5	<0.5	8	103
			Dichlorvos	µg/L	0.5	<0.5	8	87
			Dimethoate	µg/L	0.5	<0.5	-	-
			Ethion	µg/L	0.2	<0.2	8	108
			Fenitrothion	µg/L	0.2	<0.2	-	-
			Malathion	µg/L	0.2	<0.2	-	-
			Methidathion	µg/L	0.5	<0.5	-	-
			Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	-	82
			d14-p-terphenyl (Surrogate)	µg/L	-	0.4	-	88

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE258531.018	LB300408.032		Naphthalene	µg/L	0.1	<0.1	40	80
			2-methylnaphthalene	µg/L	0.1	<0.1	-	-
			1-methylnaphthalene	µg/L	0.1	<0.1	-	-
			Acenaphthylene	µg/L	0.1	<0.1	40	90
			Acenaphthene	µg/L	0.1	<0.1	40	91
			Fluorene	µg/L	0.1	<0.1	-	-
			Phenanthrene	µg/L	0.1	<0.1	40	88
			Anthracene	µg/L	0.1	<0.1	40	86
			Fluoranthene	µg/L	0.1	<0.1	40	86
			Pyrene	µg/L	0.1	<0.1	40	98
			Benzo(a)anthracene	µg/L	0.1	<0.1	-	-
			Chrysene	µg/L	0.1	<0.1	-	-
			Benzo(b&j)fluoranthene	µg/L	0.1	0.1	-	-
			Benzo(k)fluoranthene	µg/L	0.1	<0.1	-	-
			Benzo(a)pyrene	µg/L	0.1	0.1	40	91
			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)	µg/L	-	0.3	-	75
			2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	-	82
			d14-p-terphenyl (Surrogate)	µg/L	-	0.4	-	88

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258503.035	LB300398.004	Arsenic	µg/L	1	21	<1	20	104
		Cadmium	µg/L	0.1	22	<0.1	20	108
		Chromium	µg/L	1	21	<1	20	103
		Copper	µg/L	1	21	<1	20	103
		Lead	µg/L	1	22	<1	20	108
		Nickel	µg/L	1	22	<1	20	110
		Zinc	µg/L	5	23	6	20	88

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258531.007	LB300408.030		TRH C10-C14	µg/L	50	780	<50	1200	65
			TRH C15-C28	µg/L	200	1100	<200	1200	92
			TRH C29-C36	µg/L	200	1000	<200	1200	87
			TRH C37-C40	µg/L	200	<200	<200	-	-
			TRH C10-C40	µg/L	320	3000	<320	-	-
		TRH F	TRH >C10-C16	µg/L	60	920	<60	1200	76

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

TRH (Total Recoverable Hydrocarbons) in Water (continued)

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258531.007	LB300408.030	TRH F Bands	TRH >C10-C16 - Naphthalene (F2)	µg/L	60	920	<60	-	-
			TRH >C16-C34 (F3)	µg/L	500	1200	<500	1200	101
			TRH >C34-C40 (F4)	µg/L	500	570	<500	600	95

VOCs in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE258531.001	LB300549.028	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	45.45	128
			Toluene	µg/L	0.5	<0.5	45.45	130
			Ethylbenzene	µg/L	0.5	<0.5	45.45	123
			m/p-xylene	µg/L	1	<1	90.9	124
			o-xylene	µg/L	0.5	<0.5	45.45	124
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/L	-	0.0	-	104
			d8-toluene (Surrogate)	mg/L	-	0.0	-	98
			Bromofluorobenzene (Surrogate)	mg/L	-	0.0	-	105
		Totals	Total BTEX	µg/L	3	<3	-	-

Volatile Petroleum Hydrocarbons in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE258531.001	LB300549.028		TRH C6-C10	µg/L	50	<50	946.63	106
			TRH C6-C9	µg/L	40	<40	818.71	106
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/L	-	0.0	-	104
			d8-toluene (Surrogate)	mg/L	-	0.0	-	98
			Bromofluorobenzene (Surrogate)	mg/L	-	0.0	-	105
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	-	-
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	639.67	103

MATRIX SPIKE DUPLICATES

SE258531 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.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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source: Sydney.pdf page: 1 SGS Ref: SE258531_COC

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3										
CS1	12/11/2023	1	X			4	X														
CS3	14/12/2023	2	X			4	X														
CS5	14/12/2023	3	X			4	X														
CS6	14/12/2023	4	X			4	X														
CS7	15/12/2023	5	X			4	X														
CS8	15/12/2023	6	X			4	X														
CS10 01	15/12/2023		X			4	X														
CS11	15/12/2023	7	X			4	X														
CS12	15/12/2023	8	X			4	X														
DS1	14/12/2023	9	X			4	X														
DS2	14/12/2023	10	X			4	X														
DS3	14/12/2023	11	X			4	X														
DS4	15/12/2023	12	X			4	X														
DS5	15/12/2023	13	X			4	X														
DS6	15/12/2023	14	X			4	X														

SGS EHS Sydney COC
SE258531

Relinquished By:	Date/Time:	Received By:	Date/Time 20.12.23 5.25pm
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled 10.9	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3												
DS7	15/12/2023	15	X			4	X																
DS8	15/12/2023	16	X			4	X																
DS9 02	15/12/2023	17	X			4	X																
DS10	15/12/2023	18	X			4	X																
QC1	15/12/2023	19	X			4	X																
QC3	15/12/2023	20	X			4	X																
QC2	15/12/2023		X			4					X												PLEASE FORWARD TO ENVIROLAB SYDNEY
QC4	15/12/2023		X			4					X												

Relinquished By:	Date/Time:	Received By:	Date/Time 20.12.23 5:15 PM
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled 10.9	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SAMPLE RECEIPT ADVICE

SE258531

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	20

LABORATORY DETAILS

Manager	Huong Crawford
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	Wed 20/12/2023
Report Due	Fri 19/1/2024
SGS Reference	**SE258531**

SUBMISSION DETAILS

This is to confirm that 20 samples were received on Wednesday 20/12/2023. Results are expected to be ready by COB Friday 19/1/2024.
Please quote SGS reference SE258531 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	20 Water	Type of documentation received	COC
Date documentation received	20/12/2023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	10.9°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

CS10 not received.
For DS9, Amber bottle was received broken. Only TRH(C6-C9)/BTEX and Metals will be analysed.

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SAMPLE RECEIPT ADVICE

SE258531

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Water	OP Pesticides in Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	PCBs in Water	Speciated Phenols in Water	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	CS1	30	13	22	11	18	9	11	7
002	CS3	30	13	22	11	18	9	11	7
003	CS5	30	13	22	11	18	9	11	7
004	CS6	30	13	22	11	18	9	11	7
005	CS7	30	13	22	11	18	9	11	7
006	CS8	30	13	22	11	18	9	11	7
007	CS11	30	13	22	11	18	9	11	7
008	CS12	30	13	22	11	18	9	11	7
009	DS1	30	13	22	11	18	9	11	7
010	DS2	30	13	22	11	18	9	11	7
011	DS3	30	13	22	11	18	9	11	7
012	DS4	30	13	22	11	18	9	11	7
013	DS5	30	13	22	11	18	9	11	7
014	DS6	30	13	22	11	18	9	11	7
015	DS7	30	13	22	11	18	9	11	7
016	DS8	30	13	22	11	18	9	11	7
017	DS9	-	-	-	-	-	-	11	7
018	DS10	30	13	22	11	18	9	11	7
019	QC1	30	13	22	11	18	9	11	7
020	QC3	30	13	22	11	18	9	11	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

SE258531

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Trace Metals (Dissolved) in Water by ICPMS
001	CS1	1	7
002	CS3	1	7
003	CS5	1	7
004	CS6	1	7
005	CS7	1	7
006	CS8	1	7
007	CS11	1	7
008	CS12	1	7
009	DS1	1	7
010	DS2	1	7
011	DS3	1	7
012	DS4	1	7
013	DS5	1	7
014	DS6	1	7
015	DS7	1	7
016	DS8	1	7
017	DS9	1	7
018	DS10	1	7
019	QC1	1	7
020	QC3	1	7

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	24

LABORATORY DETAILS

Manager	Huong Crawford
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	**SE258533 R0**
Date Received	20/12/2023
Date Reported	26/2/2024

COMMENTS

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

SVOC subcontracted to SGS Melbourne, 10/585 Blackburn Road, Notting Hill, VIC, NATA Accreditation Number. 2562/14420, ME346357.
8270: Majority of surrogate and spike recoveries are within acceptance criteria.

SIGNATORIES

Huong CRAWFORD
Production Manager

VOC's in Soil [AN433] Tested: 17/1/2024

PARAMETER	UOM	LOR	CS-1-S SEDIMENT - 12/12/2023 SE258533.001	CS-2-S SEDIMENT - 14/12/2023 SE258533.002	CS-3-S SEDIMENT - 14/12/2023 SE258533.003	CS-4-S SEDIMENT - 14/12/2023 SE258533.004	CS-5-S SEDIMENT - 14/12/2023 SE258533.005
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

PARAMETER	UOM	LOR	CS-6-S SEDIMENT - 14/12/2023 SE258533.006	CS-7-S SEDIMENT - 15/12/2023 SE258533.007	CS-8-S SEDIMENT - 15/12/2023 SE258533.008	CS-9-S SEDIMENT - 15/12/2023 SE258533.009	CS-10-S SEDIMENT - 15/12/2023 SE258533.010
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

PARAMETER	UOM	LOR	CS-11-S SEDIMENT - 15/12/2023 SE258533.011	CS-12-S SEDIMENT - 15/12/2023 SE258533.012	DS1-S SEDIMENT - 14/12/2023 SE258533.013	DS2-S SEDIMENT - 14/12/2023 SE258533.014	DS3-S SEDIMENT - 14/12/2023 SE258533.015
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

PARAMETER	UOM	LOR	DS4-S SEDIMENT - 15/12/2023 SE258533.016	DS5-S SEDIMENT - 14/12/2023 SE258533.017	DS6-S SEDIMENT - 15/12/2023 SE258533.018	DS7-S SEDIMENT - 15/12/2023 SE258533.019	DS8-S SEDIMENT - 15/12/2023 SE258533.020
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	**0.2**	<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

VOC's in Soil [AN433] Tested: 17/1/2024 (continued)

PARAMETER	UOM	LOR	DS9-S SEDIMENT - 15/12/2023 SE258533.021	DS10-S SEDIMENT - 15/12/2023 SE258533.022	QC9 SEDIMENT - 15/12/2023 SE258533.023	QC11 SEDIMENT - 15/12/2023 SE258533.024
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	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
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 17/1/2024

PARAMETER	UOM	LOR	CS-1-S SEDIMENT - 12/12/2023 SE258533.001	CS-2-S SEDIMENT - 14/12/2023 SE258533.002	CS-3-S SEDIMENT - 14/12/2023 SE258533.003	CS-4-S SEDIMENT - 14/12/2023 SE258533.004	CS-5-S SEDIMENT - 14/12/2023 SE258533.005
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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
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	CS-6-S SEDIMENT - 14/12/2023 SE258533.006	CS-7-S SEDIMENT - 15/12/2023 SE258533.007	CS-8-S SEDIMENT - 15/12/2023 SE258533.008	CS-9-S SEDIMENT - 15/12/2023 SE258533.009	CS-10-S SEDIMENT - 15/12/2023 SE258533.010
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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
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	CS-11-S SEDIMENT - 15/12/2023 SE258533.011	CS-12-S SEDIMENT - 15/12/2023 SE258533.012	DS1-S SEDIMENT - 14/12/2023 SE258533.013	DS2-S SEDIMENT - 14/12/2023 SE258533.014	DS3-S SEDIMENT - 14/12/2023 SE258533.015
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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
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	DS4-S SEDIMENT - 15/12/2023 SE258533.016	DS5-S SEDIMENT - 14/12/2023 SE258533.017	DS6-S SEDIMENT - 15/12/2023 SE258533.018	DS7-S SEDIMENT - 15/12/2023 SE258533.019	DS8-S SEDIMENT - 15/12/2023 SE258533.020
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	0.2	<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
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

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 17/1/2024 (continued)

PARAMETER	UOM	LOR	DS9-S SEDIMENT - 15/12/2023 SE258533.021	DS10-S SEDIMENT - 15/12/2023 SE258533.022	QC9 SEDIMENT - 15/12/2023 SE258533.023	QC11 SEDIMENT - 15/12/2023 SE258533.024
TRH C6-C9	mg/kg	20	<20	<20	<20	<20
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	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
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
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: 17/1/2024

PARAMETER	UOM	LOR	CS-1-S SEDIMENT - 12/12/2023 SE258533.001	CS-2-S SEDIMENT - 14/12/2023 SE258533.002	CS-3-S SEDIMENT - 14/12/2023 SE258533.003	CS-4-S SEDIMENT - 14/12/2023 SE258533.004	CS-5-S SEDIMENT - 14/12/2023 SE258533.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C10-C36	mg/kg	110	<110	**140**	<110	**210**	<110
TRH C15-C28	mg/kg	45	<45	**68**	<45	**100**	<45
TRH C29-C36	mg/kg	45	<45	**71**	**92**	**110**	<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	**120**	**100**	**170**	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	**140**	<110	**210**	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	CS-6-S SEDIMENT - 14/12/2023 SE258533.006	CS-7-S SEDIMENT - 15/12/2023 SE258533.007	CS-8-S SEDIMENT - 15/12/2023 SE258533.008	CS-9-S SEDIMENT - 15/12/2023 SE258533.009	CS-10-S SEDIMENT - 15/12/2023 SE258533.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C10-C36	mg/kg	110	<110	**160**	<110	<110	<110
TRH C15-C28	mg/kg	45	<45	**54**	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	**110**	<45	**72**	<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	**140**	<90	**91**	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	**160**	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	CS-11-S SEDIMENT - 15/12/2023 SE258533.011	CS-12-S SEDIMENT - 15/12/2023 SE258533.012	DS1-S SEDIMENT - 14/12/2023 SE258533.013	DS2-S SEDIMENT - 14/12/2023 SE258533.014	DS3-S SEDIMENT - 14/12/2023 SE258533.015
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C10-C36	mg/kg	110	<110	<110	<110	<110	<110
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

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 17/1/2024 (continued)

PARAMETER	UOM	LOR	DS4-S SEDIMENT - 15/12/2023 SE258533.016	DS5-S SEDIMENT - 14/12/2023 SE258533.017	DS6-S SEDIMENT - 15/12/2023 SE258533.018	DS7-S SEDIMENT - 15/12/2023 SE258533.019	DS8-S SEDIMENT - 15/12/2023 SE258533.020
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C10-C36	mg/kg	110	<110	<110	<110	<110	<110
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	**67**	<45	<45	**56**
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	**92**	<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	DS9-S SEDIMENT - 15/12/2023 SE258533.021	DS10-S SEDIMENT - 15/12/2023 SE258533.022	QC9 SEDIMENT - 15/12/2023 SE258533.023	QC11 SEDIMENT - 15/12/2023 SE258533.024
TRH C10-C14	mg/kg	20	<20	<20	<20	<20
TRH C10-C36	mg/kg	110	<110	<110	<110	<110
TRH C15-C28	mg/kg	45	<45	<45	<45	**46**
TRH C29-C36	mg/kg	45	**54**	<45	**71**	<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	**94**	<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

Speciated Phenols in Soil [AN420] Tested: 17/1/2024

PARAMETER	UOM	LOR	CS-1-S SEDIMENT - 12/12/2023 SE258533.001	CS-2-S SEDIMENT - 14/12/2023 SE258533.002	CS-3-S SEDIMENT - 14/12/2023 SE258533.003	CS-4-S SEDIMENT - 14/12/2023 SE258533.004	CS-5-S SEDIMENT - 14/12/2023 SE258533.005
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	CS-6-S SEDIMENT - 14/12/2023 SE258533.006	CS-7-S SEDIMENT - 15/12/2023 SE258533.007	CS-8-S SEDIMENT - 15/12/2023 SE258533.008	CS-9-S SEDIMENT - 15/12/2023 SE258533.009	CS-10-S SEDIMENT - 15/12/2023 SE258533.010
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 17/1/2024 (continued)

PARAMETER	UOM	LOR	CS-11-S SEDIMENT - 15/12/2023 SE258533.011	CS-12-S SEDIMENT - 15/12/2023 SE258533.012	DS1-S SEDIMENT - 14/12/2023 SE258533.013	DS2-S SEDIMENT - 14/12/2023 SE258533.014	DS3-S SEDIMENT - 14/12/2023 SE258533.015
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	DS4-S SEDIMENT - 15/12/2023 SE258533.016	DS5-S SEDIMENT - 14/12/2023 SE258533.017	DS6-S SEDIMENT - 15/12/2023 SE258533.018	DS7-S SEDIMENT - 15/12/2023 SE258533.019	DS8-S SEDIMENT - 15/12/2023 SE258533.020
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 17/1/2024 (continued)

PARAMETER	UOM	LOR	DS9-S SEDIMENT - 15/12/2023 SE258533.021	DS10-S SEDIMENT - 15/12/2023 SE258533.022	QC9 SEDIMENT - 15/12/2023 SE258533.023	QC11 SEDIMENT - 15/12/2023 SE258533.024
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2

Mercury in Soil [AN312] Tested: 17/1/2024

PARAMETER	UOM	LOR	CS-1-S SEDIMENT - 12/12/2023 SE258533.001	CS-2-S SEDIMENT - 14/12/2023 SE258533.002	CS-3-S SEDIMENT - 14/12/2023 SE258533.003	CS-4-S SEDIMENT - 14/12/2023 SE258533.004	CS-5-S SEDIMENT - 14/12/2023 SE258533.005
Mercury	mg/kg	0.05	<0.05	0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	CS-6-S SEDIMENT - 14/12/2023 SE258533.006	CS-7-S SEDIMENT - 15/12/2023 SE258533.007	CS-8-S SEDIMENT - 15/12/2023 SE258533.008	CS-9-S SEDIMENT - 15/12/2023 SE258533.009	CS-10-S SEDIMENT - 15/12/2023 SE258533.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	0.05

PARAMETER	UOM	LOR	CS-11-S SEDIMENT - 15/12/2023 SE258533.011	CS-12-S SEDIMENT - 15/12/2023 SE258533.012	DS1-S SEDIMENT - 14/12/2023 SE258533.013	DS2-S SEDIMENT - 14/12/2023 SE258533.014	DS3-S SEDIMENT - 14/12/2023 SE258533.015
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	DS4-S SEDIMENT - 15/12/2023 SE258533.016	DS5-S SEDIMENT - 14/12/2023 SE258533.017	DS6-S SEDIMENT - 15/12/2023 SE258533.018	DS7-S SEDIMENT - 15/12/2023 SE258533.019	DS8-S SEDIMENT - 15/12/2023 SE258533.020
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	DS9-S SEDIMENT - 15/12/2023 SE258533.021	DS10-S SEDIMENT - 15/12/2023 SE258533.022	QC9 SEDIMENT - 15/12/2023 SE258533.023	QC11 SEDIMENT - 15/12/2023 SE258533.024
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	0.06

Moisture Content [AN002] Tested: 17/1/2024

PARAMETER	UOM	LOR	CS-1-S SEDIMENT - 12/12/2023 SE258533.001	CS-2-S SEDIMENT - 14/12/2023 SE258533.002	CS-3-S SEDIMENT - 14/12/2023 SE258533.003	CS-4-S SEDIMENT - 14/12/2023 SE258533.004	CS-5-S SEDIMENT - 14/12/2023 SE258533.005
% Moisture	%w/w	1	8.2	9.1	5.9	9.3	5.5

PARAMETER	UOM	LOR	CS-6-S SEDIMENT - 14/12/2023 SE258533.006	CS-7-S SEDIMENT - 15/12/2023 SE258533.007	CS-8-S SEDIMENT - 15/12/2023 SE258533.008	CS-9-S SEDIMENT - 15/12/2023 SE258533.009	CS-10-S SEDIMENT - 15/12/2023 SE258533.010
% Moisture	%w/w	1	4.6	4.8	8.1	5.4	7.7

PARAMETER	UOM	LOR	CS-11-S SEDIMENT - 15/12/2023 SE258533.011	CS-12-S SEDIMENT - 15/12/2023 SE258533.012	DS1-S SEDIMENT - 14/12/2023 SE258533.013	DS2-S SEDIMENT - 14/12/2023 SE258533.014	DS3-S SEDIMENT - 14/12/2023 SE258533.015
% Moisture	%w/w	1	19.6	3.4	3.9	9.0	3.5

PARAMETER	UOM	LOR	DS4-S SEDIMENT - 15/12/2023 SE258533.016	DS5-S SEDIMENT - 14/12/2023 SE258533.017	DS6-S SEDIMENT - 15/12/2023 SE258533.018	DS7-S SEDIMENT - 15/12/2023 SE258533.019	DS8-S SEDIMENT - 15/12/2023 SE258533.020
% Moisture	%w/w	1	6.9	30.6	8.5	5.3	8.4

PARAMETER	UOM	LOR	DS9-S SEDIMENT - 15/12/2023 SE258533.021	DS10-S SEDIMENT - 15/12/2023 SE258533.022	QC9 SEDIMENT - 15/12/2023 SE258533.023	QC11 SEDIMENT - 15/12/2023 SE258533.024
% Moisture	%w/w	1	7.4	10.0	8.3	11.3

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 18/1/2024

PARAMETER	UOM	LOR	CS-1-S SEDIMENT - 12/12/2023 SE258533.001	CS-2-S SEDIMENT - 14/12/2023 SE258533.002	CS-3-S SEDIMENT - 14/12/2023 SE258533.003	CS-4-S SEDIMENT - 14/12/2023 SE258533.004	CS-5-S SEDIMENT - 14/12/2023 SE258533.005
Arsenic, As	mg/kg	1	6	3	4	4	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	30	4.9	4.6	13	12
Copper, Cu	mg/kg	0.5	26	14	14	6.9	9.4
Lead, Pb	mg/kg	1	9	11	6	10	7
Nickel, Ni	mg/kg	0.5	13	6.7	1.3	3.7	2.4
Zinc, Zn	mg/kg	2	40	31	7	13	6

PARAMETER	UOM	LOR	CS-6-S SEDIMENT - 14/12/2023 SE258533.006	CS-7-S SEDIMENT - 15/12/2023 SE258533.007	CS-8-S SEDIMENT - 15/12/2023 SE258533.008	CS-9-S SEDIMENT - 15/12/2023 SE258533.009	CS-10-S SEDIMENT - 15/12/2023 SE258533.010
Arsenic, As	mg/kg	1	4	3	6	8	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	4.8	6.8	19	29	40
Copper, Cu	mg/kg	0.5	24	15	26	27	44
Lead, Pb	mg/kg	1	7	4	5	13	5
Nickel, Ni	mg/kg	0.5	2.5	2.1	12	15	23
Zinc, Zn	mg/kg	2	18	16	27	44	56

PARAMETER	UOM	LOR	CS-11-S SEDIMENT - 15/12/2023 SE258533.011	CS-12-S SEDIMENT - 15/12/2023 SE258533.012	DS1-S SEDIMENT - 14/12/2023 SE258533.013	DS2-S SEDIMENT - 14/12/2023 SE258533.014	DS3-S SEDIMENT - 14/12/2023 SE258533.015
Arsenic, As	mg/kg	1	3	5	6	4	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	11	8.3	8.6	5.6	7.2
Copper, Cu	mg/kg	0.5	14	17	26	48	32
Lead, Pb	mg/kg	1	5	9	10	6	9
Nickel, Ni	mg/kg	0.5	4.9	3.9	3.3	6.2	5.1
Zinc, Zn	mg/kg	2	94	16	19	12	45

PARAMETER	UOM	LOR	DS4-S SEDIMENT - 15/12/2023 SE258533.016	DS5-S SEDIMENT - 14/12/2023 SE258533.017	DS6-S SEDIMENT - 15/12/2023 SE258533.018	DS7-S SEDIMENT - 15/12/2023 SE258533.019	DS8-S SEDIMENT - 15/12/2023 SE258533.020
Arsenic, As	mg/kg	1	5	6	2	3	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	6.9	23	6.8	4.3	8.7
Copper, Cu	mg/kg	0.5	20	26	30	39	23
Lead, Pb	mg/kg	1	9	7	4	5	7
Nickel, Ni	mg/kg	0.5	3.1	11	3.3	1.0	3.8
Zinc, Zn	mg/kg	2	25	31	19	13	16

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 18/1/2024

(continued)

PARAMETER	UOM	LOR	DS9-S SEDIMENT - 15/12/2023 SE258533.021	DS10-S SEDIMENT - 15/12/2023 SE258533.022	QC9 SEDIMENT - 15/12/2023 SE258533.023	QC11 SEDIMENT - 15/12/2023 SE258533.024
Arsenic, As	mg/kg	1	2	4	3	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	7.4	26	25	33
Copper, Cu	mg/kg	0.5	17	41	20	38
Lead, Pb	mg/kg	1	6	7	12	5
Nickel, Ni	mg/kg	0.5	3.2	12	12	22
Zinc, Zn	mg/kg	2	18	44	38	54

8270D.SL.01 SVOCs All in Solids/Soils [MA 8270] Tested: 26/2/2024

PARAMETER	UOM	LOR	CS-1-S SEDIMENT - 12/12/2023 SE258533.001	CS-2-S SEDIMENT - 14/12/2023 SE258533.002	CS-3-S SEDIMENT - 14/12/2023 SE258533.003	CS-4-S SEDIMENT - 14/12/2023 SE258533.004	CS-5-S SEDIMENT - 14/12/2023 SE258533.005
2-Methylnaphthalene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo(a)anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (a) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (b+j) fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (e) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (ghi) perylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (k) fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chrysene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Coronene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibenz (ah) anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluorene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Indeno (1,2,3-cd) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Perylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Phenanthrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total PAH	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4-DDD	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4,4-DDE	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4,4-DDT	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aldrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
alpha-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
beta-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
alpha-Chlordane	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
gamma-Chlordane	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlordane (alpha + gamma)	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
delta-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dieldrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan 1	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan 2	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan Sulphate	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
gamma-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor Epoxide	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobenzene	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methoxychlor	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total OC Pesticides	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorpyrifos	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dimethoate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Disulfoton	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Famphur	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl parathion	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O,O,O-Triethylphosphorothioate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phorate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Stirofos	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulfotepp	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thionazin	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arochlor 1016	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1221	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1232	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1242	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005

8270D.SL.01 SVOCs All in Solids/Soils [MA 8270] Tested: 26/2/2024 (continued)

PARAMETER	UOM	LOR	CS-1-S SEDIMENT - 12/12/2023 SE258533.001	CS-2-S SEDIMENT - 14/12/2023 SE258533.002	CS-3-S SEDIMENT - 14/12/2023 SE258533.003	CS-4-S SEDIMENT - 14/12/2023 SE258533.004	CS-5-S SEDIMENT - 14/12/2023 SE258533.005
Arochlor 1248	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1254	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1260	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1262	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1268	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total PCBs	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005

8270D.SL.01 SVOCs All in Solids/Soils [MA 8270] Tested: 26/2/2024 (continued)

PARAMETER	UOM	LOR	CS-6-S SEDIMENT - 14/12/2023 SE258533.006	CS-7-S SEDIMENT - 15/12/2023 SE258533.007	CS-8-S SEDIMENT - 15/12/2023 SE258533.008	CS-9-S SEDIMENT - 15/12/2023 SE258533.009	CS-10-S SEDIMENT - 15/12/2023 SE258533.010
2-Methylnaphthalene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo(a)anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (a) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (b+j) fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (e) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (ghi) perylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (k) fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chrysene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Coronene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibenz (ah) anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluorene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Indeno (1,2,3-cd) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Perylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Phenanthrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total PAH	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4-DDD	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4,4-DDE	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4,4-DDT	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aldrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
alpha-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
beta-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
alpha-Chlordane	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
gamma-Chlordane	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlordane (alpha + gamma)	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
delta-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dieldrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan 1	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan 2	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan Sulphate	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
gamma-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor Epoxide	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobenzene	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methoxychlor	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total OC Pesticides	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorpyrifos	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dimethoate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Disulfoton	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Famphur	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl parathion	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O,O,O-Triethylphosphorothioate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phorate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Stirofos	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulfotepp	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thionazin	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arochlor 1016	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1221	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1232	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1242	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005

8270D.SL.01 SVOCs All in Solids/Soils [MA 8270] Tested: 26/2/2024 (continued)

PARAMETER	UOM	LOR	CS-6-S SEDIMENT - 14/12/2023 SE258533.006	CS-7-S SEDIMENT - 15/12/2023 SE258533.007	CS-8-S SEDIMENT - 15/12/2023 SE258533.008	CS-9-S SEDIMENT - 15/12/2023 SE258533.009	CS-10-S SEDIMENT - 15/12/2023 SE258533.010
Arochlor 1248	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1254	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1260	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1262	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1268	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total PCBs	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005

8270D.SL.01 SVOCs All in Solids/Soils [MA 8270] Tested: 26/2/2024 (continued)

PARAMETER	UOM	LOR	CS-11-S SEDIMENT - 15/12/2023 SE258533.011	CS-12-S SEDIMENT - 15/12/2023 SE258533.012	DS1-S SEDIMENT - 14/12/2023 SE258533.013	DS2-S SEDIMENT - 14/12/2023 SE258533.014	DS3-S SEDIMENT - 14/12/2023 SE258533.015
2-Methylnaphthalene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo(a)anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (a) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (b+j) fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (e) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (ghi) perylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (k) fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chrysene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Coronene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibenz (ah) anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluorene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Indeno (1,2,3-cd) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Perylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Phenanthrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total PAH	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4-DDD	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4,4-DDE	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4,4-DDT	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aldrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
alpha-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
beta-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
alpha-Chlordane	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
gamma-Chlordane	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlordane (alpha + gamma)	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
delta-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dieldrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan 1	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan 2	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan Sulphate	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
gamma-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor Epoxide	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobenzene	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methoxychlor	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total OC Pesticides	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorpyrifos	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dimethoate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Disulfoton	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Famphur	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl parathion	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O,O,O-Triethylphosphorothioate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phorate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Stirofos	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulfotepp	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thionazin	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arochlor 1016	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1221	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1232	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1242	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005

8270D.SL.01 SVOCs All in Solids/Soils [MA 8270] Tested: 26/2/2024 (continued)

PARAMETER	UOM	LOR	CS-11-S SEDIMENT - 15/12/2023 SE258533.011	CS-12-S SEDIMENT - 15/12/2023 SE258533.012	DS1-S SEDIMENT - 14/12/2023 SE258533.013	DS2-S SEDIMENT - 14/12/2023 SE258533.014	DS3-S SEDIMENT - 14/12/2023 SE258533.015
Arochlor 1248	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1254	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1260	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1262	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1268	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total PCBs	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005

8270D.SL.01 SVOCs All in Solids/Soils [MA 8270] Tested: 26/2/2024 (continued)

PARAMETER	UOM	LOR	DS4-S SEDIMENT - 15/12/2023 SE258533.016	DS5-S SEDIMENT - 14/12/2023 SE258533.017	DS6-S SEDIMENT - 15/12/2023 SE258533.018	DS7-S SEDIMENT - 15/12/2023 SE258533.019	DS8-S SEDIMENT - 15/12/2023 SE258533.020
2-Methylnaphthalene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo(a)anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (a) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (b+j) fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (e) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (ghi) perylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzo (k) fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chrysene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Coronene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dibenz (ah) anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Fluorene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Indeno (1,2,3-cd) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Perylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Phenanthrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total PAH	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4,4-DDD	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4,4-DDE	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4,4-DDT	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Aldrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
alpha-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
beta-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
alpha-Chlordane	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
gamma-Chlordane	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlordane (alpha + gamma)	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
delta-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dieldrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan 1	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan 2	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan Sulphate	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
gamma-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor Epoxide	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobenzene	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methoxychlor	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total OC Pesticides	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorpyrifos	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dimethoate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Disulfoton	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Famphur	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl parathion	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
O,O,O-Triethylphosphorothioate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phorate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Stirofos	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulfotepp	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thionazin	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arochlor 1016	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1221	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1232	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1242	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005

8270D.SL.01 SVOCs All in Solids/Soils [MA 8270] Tested: 26/2/2024 (continued)

PARAMETER	UOM	LOR	DS4-S SEDIMENT - 15/12/2023 SE258533.016	DS5-S SEDIMENT - 14/12/2023 SE258533.017	DS6-S SEDIMENT - 15/12/2023 SE258533.018	DS7-S SEDIMENT - 15/12/2023 SE258533.019	DS8-S SEDIMENT - 15/12/2023 SE258533.020
Arochlor 1248	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1254	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1260	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1262	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1268	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total PCBs	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005	<0.005

8270D.SL.01 SVOCs All in Solids/Soils [MA 8270] Tested: 26/2/2024 (continued)

PARAMETER	UOM	LOR	DS9-S SEDIMENT - 15/12/2023 SE258533.021	DS10-S SEDIMENT - 15/12/2023 SE258533.022	QC9 SEDIMENT - 15/12/2023 SE258533.023	QC11 SEDIMENT - 15/12/2023 SE258533.024
2-Methylnaphthalene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Acenaphthylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Benzo(a)anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Benzo (a) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Benzo (b+j) fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Benzo (e) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Benzo (ghi) perylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Benzo (k) fluoranthene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Chrysene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Coronene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Dibenz (ah) anthracene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Fluoranthene	mg/kg	0.005	<0.005	**0.007**	<0.005	<0.005
Fluorene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Indeno (1,2,3-cd) pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Perylene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Phenanthrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Pyrene	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Total PAH	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
4,4-DDD	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
4,4-DDE	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
4,4-DDT	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Aldrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
alpha-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
beta-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
alpha-Chlordane	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
gamma-Chlordane	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Chlordane (alpha + gamma)	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
delta-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Dieldrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan 1	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan 2	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Endosulfan Sulphate	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Endrin	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
gamma-BHC	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor Epoxide	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Hexachlorobenzene	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Methoxychlor	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Total OC Pesticides	mg/kg	0.001	<0.001	<0.001	<0.001	<0.001
Chlorpyrifos	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01
Dimethoate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01
Disulfoton	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01
Famphur	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01
Methyl parathion	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01
O,O,O-Triethylphosphorothioate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01
Phorate	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01
Stirofos	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01
Sulfotepp	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01
Thionazin	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01
Arochlor 1016	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1221	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1232	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1242	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005

8270D.SL.01 SVOCs All in Solids/Soils [MA 8270] Tested: 26/2/2024 (continued)

PARAMETER	UOM	LOR	DS9-S SEDIMENT - 15/12/2023 SE258533.021	DS10-S SEDIMENT - 15/12/2023 SE258533.022	QC9 SEDIMENT - 15/12/2023 SE258533.023	QC11 SEDIMENT - 15/12/2023 SE258533.024
Arochlor 1248	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1254	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1260	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1262	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Arochlor 1268	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005
Total PCBs	mg/kg	0.005	<0.005	<0.005	<0.005	<0.005

Combined SVOC Pesticides in Solids/Soils [MA 8270] Tested: 23/2/2024

PARAMETER	UOM	LOR	CS-1-S SEDIMENT - 12/12/2023 SE258533.001	CS-2-S SEDIMENT - 14/12/2023 SE258533.002	CS-3-S SEDIMENT - 14/12/2023 SE258533.003	CS-4-S SEDIMENT - 14/12/2023 SE258533.004	CS-5-S SEDIMENT - 14/12/2023 SE258533.005
Azinphos-methyl	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Diazinon*	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromophos ethyl*	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	CS-6-S SEDIMENT - 14/12/2023 SE258533.006	CS-7-S SEDIMENT - 15/12/2023 SE258533.007	CS-8-S SEDIMENT - 15/12/2023 SE258533.008	CS-9-S SEDIMENT - 15/12/2023 SE258533.009	CS-10-S SEDIMENT - 15/12/2023 SE258533.010
Azinphos-methyl	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Diazinon*	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromophos ethyl*	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	CS-11-S SEDIMENT - 15/12/2023 SE258533.011	CS-12-S SEDIMENT - 15/12/2023 SE258533.012	DS1-S SEDIMENT - 14/12/2023 SE258533.013	DS2-S SEDIMENT - 14/12/2023 SE258533.014	DS3-S SEDIMENT - 14/12/2023 SE258533.015
Azinphos-methyl	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Diazinon*	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromophos ethyl*	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	DS4-S SEDIMENT - 15/12/2023 SE258533.016	DS5-S SEDIMENT - 14/12/2023 SE258533.017	DS6-S SEDIMENT - 15/12/2023 SE258533.018	DS7-S SEDIMENT - 15/12/2023 SE258533.019	DS8-S SEDIMENT - 15/12/2023 SE258533.020
Azinphos-methyl	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Diazinon*	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Bromophos ethyl*	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	DS9-S SEDIMENT - 15/12/2023 SE258533.021	DS10-S SEDIMENT - 15/12/2023 SE258533.022	QC9 SEDIMENT - 15/12/2023 SE258533.023	QC11 SEDIMENT - 15/12/2023 SE258533.024
Azinphos-methyl	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01
Diazinon*	mg/kg	0.01	<0.01	<0.01	<0.01	<0.01
Bromophos ethyl*	mg/kg	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).
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.
MA 8270	This method covers analytical procedures for the analysis of semi-volatile organic compounds (SVOC) including most neutral, acidic, and basic organic compounds based on the USEPA method 8270D. Samples are extracted into a solvent appropriate to the matrix and analysed using a gas chromatograph – mass spectrometer (GC–MS) Total PAH calculated from individual analyte detections at or above the limit of reporting . .
MA8270 Pes	This method covers analytical procedures for the analysis of semi-volatile organic compounds (SVOC pesticides) including most neutral, acidic, and basic organic compounds based on the USEPA method 8270D. Samples are extracted into a solvent appropriate to the matrix and analysed using a gas chromatograph – triple quadrapole (GC–QQQ).
MA8270	Carcinogenic PAHs may be expressed as Benzo(a)pyrene equivalents by applying the BaP toxicity equivalence factor (NEPM 1999, June 2013, B7). These can be reported as the individual PAHs and as a sum of carcinogenic PAHs. The sum is reported three ways, the first assuming all <LOR results are zero, the second assuming all < LOR results are half the LOR and the third assuming all <LOR results are the LOR.

FOOTNOTES

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

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

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

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

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

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

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

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

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

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STATEMENT OF QA/QC PERFORMANCE

ME346357 R0

CLIENT DETAILS

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Facsimile	02 8594 0499
Email	au.environmental.sydney@sgs.com
Project	**P23158**
Order Number	**SE258533**
Samples	24

LABORATORY DETAILS

Manager	Adam Atkinson
Laboratory	SGS Melbourne EH&S
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Facsimile	+61395743399
Email	Au.SampleReceipt.Melbourne@sgs.com
SGS Reference	**ME346357 R0**
Date Received	08 Feb 2024
Date Reported	20 Mar 2024

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	8270D.SL.01 SVOCs All in Solids/Soils	24 items
	Combined SVOC Pesticides in Solids/Soils	24 items
	Moisture Content	24 items
Surrogate	8270D.SL.01 SVOCs All in Solids/Soils	4 items
LCS	8270D.SL.01 SVOCs All in Solids/Soils	4 items
Matrix Spike	8270D.SL.01 SVOCs All in Solids/Soils	3 items

SAMPLE SUMMARY

Sample counts by matrix	24 Sediment	Type of documentation received	COC
Date documentation received	8/2/2024	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.4 °C
Sample container provider	SGS	Turnaround time requested	3 days
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	3 Ice	Samples clearly labelled	Yes
Complete documentation received	Yes	Number of eskies/boxes received	2

HOLDING TIME SUMMARY

ME346357 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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

8270D.SL.01 SVOCs All in Solids/Soils

Method: MA 8270

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SE258533.001	ME346357.001	LB071559	12 Dec 2023	08 Feb 2024	26 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.002	ME346357.002	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.003	ME346357.003	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.004	ME346357.004	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.005	ME346357.005	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.006	ME346357.006	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.007	ME346357.007	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.008	ME346357.008	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.009	ME346357.009	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.010	ME346357.010	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.011	ME346357.011	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.012	ME346357.012	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.013	ME346357.013	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.014	ME346357.014	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.015	ME346357.015	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.016	ME346357.016	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.017	ME346357.017	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.018	ME346357.018	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.019	ME346357.019	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.020	ME346357.020	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.021	ME346357.021	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.022	ME346357.022	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.023	ME346357.023	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024
SE258533.024	ME346357.024	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	26 Feb 2024

Combined SVOC Pesticides in Solids/Soils

Method: MA 8270

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SE258533.001	ME346357.001	LB071559	12 Dec 2023	08 Feb 2024	26 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.002	ME346357.002	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.003	ME346357.003	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.004	ME346357.004	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.005	ME346357.005	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.006	ME346357.006	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.007	ME346357.007	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.008	ME346357.008	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.009	ME346357.009	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.010	ME346357.010	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.011	ME346357.011	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.012	ME346357.012	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.013	ME346357.013	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.014	ME346357.014	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.015	ME346357.015	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.016	ME346357.016	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.017	ME346357.017	LB071559	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.018	ME346357.018	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.019	ME346357.019	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.020	ME346357.020	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.021	ME346357.021	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.022	ME346357.022	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.023	ME346357.023	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024
SE258533.024	ME346357.024	LB071559	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	19 Mar 2024	15 Feb 2024

Moisture Content

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SE258533.001	ME346357.001	LB071561	12 Dec 2023	08 Feb 2024	26 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.002	ME346357.002	LB071561	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.003	ME346357.003	LB071561	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.004	ME346357.004	LB071561	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.005	ME346357.005	LB071561	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.006	ME346357.006	LB071561	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.007	ME346357.007	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024

HOLDING TIME SUMMARY

ME346357 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 sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Moisture Content (continued) — **Method: ME-(AU)-[ENV]AN002**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
SE258533.008	ME346357.008	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.009	ME346357.009	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.010	ME346357.010	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.011	ME346357.011	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.012	ME346357.012	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.013	ME346357.013	LB071561	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.014	ME346357.014	LB071561	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.015	ME346357.015	LB071561	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.016	ME346357.016	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.017	ME346357.017	LB071561	14 Dec 2023	08 Feb 2024	28 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.018	ME346357.018	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.019	ME346357.019	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.020	ME346357.020	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.021	ME346357.021	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.022	ME346357.022	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.023	ME346357.023	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024
SE258533.024	ME346357.024	LB071561	15 Dec 2023	08 Feb 2024	29 Dec 2023	08 Feb 2024†	13 Feb 2024	09 Feb 2024

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

8270D.SL.01 SVOCs All in Solids/Soils — **Method: MA 8270**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
p-Terphenyl-D14 (surrogate)	SE258533.001	ME346357.001	%	60 - 140%	96
	SE258533.002	ME346357.002	%	60 - 140%	136
	SE258533.003	ME346357.003	%	60 - 140%	78
	SE258533.004	ME346357.004	%	60 - 140%	87
	SE258533.005	ME346357.005	%	60 - 140%	92
	SE258533.006	ME346357.006	%	60 - 140%	94
	SE258533.007	ME346357.007	%	60 - 140%	97
	SE258533.008	ME346357.008	%	60 - 140%	101
	SE258533.009	ME346357.009	%	60 - 140%	69
	SE258533.010	ME346357.010	%	60 - 140%	88
	SE258533.011	ME346357.011	%	60 - 140%	70
	SE258533.012	ME346357.012	%	60 - 140%	57 †
	SE258533.013	ME346357.013	%	60 - 140%	59 †
	SE258533.014	ME346357.014	%	60 - 140%	67
	SE258533.015	ME346357.015	%	60 - 140%	80
	SE258533.016	ME346357.016	%	60 - 140%	51 †
	SE258533.017	ME346357.017	%	60 - 140%	71
	SE258533.018	ME346357.018	%	60 - 140%	69
	SE258533.019	ME346357.019	%	60 - 140%	68
	SE258533.020	ME346357.020	%	60 - 140%	64
	SE258533.021	ME346357.021	%	60 - 140%	66
	SE258533.022	ME346357.022	%	60 - 140%	62
	SE258533.023	ME346357.023	%	60 - 140%	67
	SE258533.024	ME346357.024	%	60 - 140%	58 †

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.

8270D.SL.01 SVOCs All in Solids/Soils — **Method: MA 8270**

Sample Number	Parameter	Units	LOR	Result
LB071559.001	2-Methylnaphthalene	mg/kg	0.005	<0.005
	4,4-DDD	mg/kg	0.001	<0.001
	4,4-DDE	mg/kg	0.001	<0.001
	4,4-DDT	mg/kg	0.001	<0.001
	Acenaphthene	mg/kg	0.005	<0.005
	Acenaphthylene	mg/kg	0.005	<0.005
	Aldrin	mg/kg	0.001	<0.001
	alpha-BHC	mg/kg	0.001	<0.001
	alpha-Chlordane	mg/kg	0.001	<0.001
	gamma-Chlordane	mg/kg	0.001	<0.001
	Anthracene	mg/kg	0.005	<0.005
	Arochlor 1016	mg/kg	0.005	<0.005
	Arochlor 1221	mg/kg	0.005	<0.005
	Arochlor 1232	mg/kg	0.005	<0.005
	Arochlor 1242	mg/kg	0.005	<0.005
	Arochlor 1248	mg/kg	0.005	<0.005
	Arochlor 1254	mg/kg	0.005	<0.005
	Arochlor 1260	mg/kg	0.005	<0.005
	Arochlor 1262	mg/kg	0.005	<0.005
	Arochlor 1268	mg/kg	0.005	<0.005
	Benzo(a)anthracene	mg/kg	0.005	<0.005
	Benzo (a) pyrene	mg/kg	0.005	<0.005
	Benzo (b+j) fluoranthene	mg/kg	0.005	<0.005
	Benzo (e) pyrene	mg/kg	0.005	<0.005
	Benzo (ghi) perylene	mg/kg	0.005	<0.005
	Benzo (k) fluoranthene	mg/kg	0.005	<0.005
	beta-BHC	mg/kg	0.001	<0.001
	Chlorpyrifos	mg/kg	0.01	<0.01
	Chrysene	mg/kg	0.005	<0.005
	Coronene	mg/kg	0.005	<0.005
	delta-BHC	mg/kg	0.001	<0.001
	Dibenz (ah) anthracene	mg/kg	0.005	<0.005
	Dieldrin	mg/kg	0.001	<0.001
	Dimethoate	mg/kg	0.01	<0.01
	Disulfoton	mg/kg	0.01	<0.01
	Endosulfan 1	mg/kg	0.001	<0.001
	Endosulfan 2	mg/kg	0.001	<0.001
	Endosulfan Sulphate	mg/kg	0.001	<0.001
	Endrin	mg/kg	0.001	<0.001
	Famphur	mg/kg	0.01	<0.01
	Fluoranthene	mg/kg	0.005	<0.005
	Fluorene	mg/kg	0.005	<0.005
	gamma-BHC	mg/kg	0.001	<0.001
	Heptachlor	mg/kg	0.001	<0.001
	Heptachlor Epoxide	mg/kg	0.001	<0.001
	Hexachlorobenzene	mg/kg	0.001	<0.001
	Indeno (1,2,3-cd) pyrene	mg/kg	0.005	<0.005
	Methoxychlor	mg/kg	0.001	<0.001
	Methyl parathion	mg/kg	0.01	<0.01
	Naphthalene	mg/kg	0.005	<0.005
	O,O,O-Triethylphosphorothioate	mg/kg	0.01	<0.01
	Perylene	mg/kg	0.005	<0.005
	Phenanthrene	mg/kg	0.005	<0.005
	Phorate	mg/kg	0.01	<0.01
	Pyrene	mg/kg	0.005	<0.005
	Stirofos	mg/kg	0.01	<0.01
	Sulfotepp	mg/kg	0.01	<0.01
	Thionazin	mg/kg	0.01	<0.01
	Total OC Pesticides	mg/kg	0.001	<0.001
	Total PCBs	mg/kg	0.005	<0.005
LB071559.027	2-Methylnaphthalene	mg/kg	0.005	<0.005

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.

8270D.SL.01 SVOCs All in Solids/Soils (continued) — **Method: MA 8270**

Sample Number	Parameter	Units	LOR	Result
LB071559.027	4,4-DDD	mg/kg	0.001	<0.001
	4,4-DDE	mg/kg	0.001	<0.001
	4,4-DDT	mg/kg	0.001	<0.001
	Acenaphthene	mg/kg	0.005	<0.005
	Acenaphthylene	mg/kg	0.005	<0.005
	Aldrin	mg/kg	0.001	<0.001
	alpha-BHC	mg/kg	0.001	<0.001
	alpha-Chlordane	mg/kg	0.001	<0.001
	gamma-Chlordane	mg/kg	0.001	<0.001
	Anthracene	mg/kg	0.005	<0.005
	Arochlor 1016	mg/kg	0.005	<0.005
	Arochlor 1221	mg/kg	0.005	<0.005
	Arochlor 1232	mg/kg	0.005	<0.005
	Arochlor 1242	mg/kg	0.005	<0.005
	Arochlor 1248	mg/kg	0.005	<0.005
	Arochlor 1254	mg/kg	0.005	<0.005
	Arochlor 1260	mg/kg	0.005	<0.005
	Arochlor 1262	mg/kg	0.005	<0.005
	Arochlor 1268	mg/kg	0.005	<0.005
	Benzo(a)anthracene	mg/kg	0.005	<0.005
	Benzo (a) pyrene	mg/kg	0.005	<0.005
	Benzo (b+j) fluoranthene	mg/kg	0.005	<0.005
	Benzo (e) pyrene	mg/kg	0.005	<0.005
	Benzo (ghi) perylene	mg/kg	0.005	<0.005
	Benzo (k) fluoranthene	mg/kg	0.005	<0.005
	beta-BHC	mg/kg	0.001	<0.001
	Chlorpyrifos	mg/kg	0.01	<0.01
	Chrysene	mg/kg	0.005	<0.005
	Coronene	mg/kg	0.005	<0.005
	delta-BHC	mg/kg	0.001	<0.001
	Dibenz (ah) anthracene	mg/kg	0.005	<0.005
	Dieldrin	mg/kg	0.001	<0.001
	Dimethoate	mg/kg	0.01	<0.01
	Disulfoton	mg/kg	0.01	<0.01
	Endosulfan 1	mg/kg	0.001	<0.001
	Endosulfan 2	mg/kg	0.001	<0.001
	Endosulfan Sulphate	mg/kg	0.001	<0.001
	Endrin	mg/kg	0.001	<0.001
	Famphur	mg/kg	0.01	<0.01
	Fluoranthene	mg/kg	0.005	<0.005
	Fluorene	mg/kg	0.005	<0.005
	gamma-BHC	mg/kg	0.001	<0.001
	Heptachlor	mg/kg	0.001	<0.001
	Heptachlor Epoxide	mg/kg	0.001	<0.001
	Hexachlorobenzene	mg/kg	0.001	<0.001
	Indeno (1,2,3-cd) pyrene	mg/kg	0.005	<0.005
	Methoxychlor	mg/kg	0.001	<0.001
	Methyl parathion	mg/kg	0.01	<0.01
	Naphthalene	mg/kg	0.005	<0.005
	O,O,O-Triethylphosphorothioate	mg/kg	0.01	<0.01
	Perylene	mg/kg	0.005	<0.005
	Phenanthrene	mg/kg	0.005	<0.005
	Phorate	mg/kg	0.01	<0.01
	Pyrene	mg/kg	0.005	<0.005
	Stirofos	mg/kg	0.01	<0.01
	Sulfotepp	mg/kg	0.01	<0.01
	Thionazin	mg/kg	0.01	<0.01
	Total OC Pesticides	mg/kg	0.001	<0.001
	Total PCBs	mg/kg	0.005	<0.005

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean
The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR
Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may give a different calculated RPD.

8270D.SL.01 SVOCs All in Solids/Soils — **Method: MA 8270**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
ME346357.001	LB071559.004	2-Methylnaphthalene	mg/kg	0.005	<0.005	<0.005	200	0
		4,4-DDD	mg/kg	0.001	<0.001	<0.001	200	0
		4,4-DDE	mg/kg	0.001	<0.001	<0.001	200	0
		4,4-DDT	mg/kg	0.001	<0.001	<0.001	200	0
		Acenaphthene	mg/kg	0.005	<0.005	<0.005	200	0
		Acenaphthylene	mg/kg	0.005	<0.005	<0.005	200	0
		Aldrin	mg/kg	0.001	<0.001	<0.001	200	0
		alpha-BHC	mg/kg	0.001	<0.001	<0.001	200	0
		alpha-Chlordane	mg/kg	0.001	<0.001	<0.001	200	0
		Chlordane (alpha + gamma)	mg/kg	0.001	<0.001	<0.001	200	0
		gamma-Chlordane	mg/kg	0.001	<0.001	<0.001	200	0
		Anthracene	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1016	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1221	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1232	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1242	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1248	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1254	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1260	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1262	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1268	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo(a)anthracene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (a) pyrene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (b+j) fluoranthene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (e) pyrene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (ghi) perylene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (k) fluoranthene	mg/kg	0.005	<0.005	<0.005	200	0
		beta-BHC	mg/kg	0.001	<0.001	<0.001	200	0
		Chlorpyrifos	mg/kg	0.01	<0.01	<0.01	200	0
		Chrysene	mg/kg	0.005	<0.005	<0.005	200	0
		Coronene	mg/kg	0.005	<0.005	<0.005	200	0
		delta-BHC	mg/kg	0.001	<0.001	<0.001	200	0
		Dibenz (ah) anthracene	mg/kg	0.005	<0.005	<0.005	200	0
		Dieldrin	mg/kg	0.001	<0.001	<0.001	200	0
		Dimethoate	mg/kg	0.01	<0.01	<0.01	200	0
		Disulfoton	mg/kg	0.01	<0.01	<0.01	200	0
		Endosulfan 1	mg/kg	0.001	<0.001	<0.001	200	0
		Endosulfan 2	mg/kg	0.001	<0.001	<0.001	200	0
		Endosulfan Sulphate	mg/kg	0.001	<0.001	<0.001	200	0
		Endrin	mg/kg	0.001	<0.001	<0.001	200	0
		Famphur	mg/kg	0.01	<0.01	<0.01	200	0
		Fluoranthene	mg/kg	0.005	<0.005	<0.005	200	0
		Fluorene	mg/kg	0.005	<0.005	<0.005	200	0
		gamma-BHC	mg/kg	0.001	<0.001	<0.001	200	0
		Heptachlor	mg/kg	0.001	<0.001	<0.001	200	0
		Heptachlor Epoxide	mg/kg	0.001	<0.001	<0.001	200	0
		Hexachlorobenzene	mg/kg	0.001	<0.001	<0.001	200	0
		Indeno (1,2,3-cd) pyrene	mg/kg	0.005	<0.005	<0.005	200	0
		Methoxychlor	mg/kg	0.001	<0.001	<0.001	200	0
		Methyl parathion	mg/kg	0.01	<0.01	<0.01	200	0
		Naphthalene	mg/kg	0.005	<0.005	<0.005	200	0
		O,O,O-Triethylphosphorothioate	mg/kg	0.01	<0.01	<0.01	200	0
		Perylene	mg/kg	0.005	<0.005	<0.005	200	0
		Phenanthrene	mg/kg	0.005	<0.005	<0.005	200	0
		Phorate	mg/kg	0.01	<0.01	<0.01	200	0
		Pyrene	mg/kg	0.005	<0.005	<0.005	200	0
		Stirofos	mg/kg	0.01	<0.01	<0.01	200	0
		Sulfotepp	mg/kg	0.01	<0.01	<0.01	200	0
		Thionazin	mg/kg	0.01	<0.01	<0.01	200	0
		Total OC Pesticides	mg/kg	0.001	<0.001	<0.001	200	0
		Total PCBs	mg/kg	0.005	<0.005	<0.005	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean
The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR
Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may give a different calculated RPD.

8270D.SL.01 SVOCs All in Solids/Soils (continued) — **Method: MA 8270**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
ME346357.001	LB071559.004	Total PAH	mg/kg	0.1	<0.1	<0.1	200	0
		p-Terphenyl-D14 (surrogate)	mg/kg	-	1	1	30	7
ME346357.011	LB071559.017	2-Methylnaphthalene	mg/kg	0.005	<0.005	<0.005	200	0
		4,4-DDD	mg/kg	0.001	<0.001	<0.001	200	0
		4,4-DDE	mg/kg	0.001	<0.001	<0.001	200	0
		4,4-DDT	mg/kg	0.001	<0.001	<0.001	200	0
		Acenaphthene	mg/kg	0.005	<0.005	<0.005	200	0
		Acenaphthylene	mg/kg	0.005	<0.005	<0.005	200	0
		Aldrin	mg/kg	0.001	<0.001	<0.001	200	0
		alpha-BHC	mg/kg	0.001	<0.001	<0.001	200	0
		alpha-Chlordane	mg/kg	0.001	<0.001	<0.001	200	0
		Chlordane (alpha + gamma)	mg/kg	0.001	<0.001	<0.001	200	0
		gamma-Chlordane	mg/kg	0.001	<0.001	<0.001	200	0
		Anthracene	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1016	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1221	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1232	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1242	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1248	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1254	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1260	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1262	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1268	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo(a)anthracene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (a) pyrene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (b+j) fluoranthene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (e) pyrene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (ghi) perylene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (k) fluoranthene	mg/kg	0.005	<0.005	<0.005	200	0
		beta-BHC	mg/kg	0.001	<0.001	<0.001	200	0
		Chlorpyrifos	mg/kg	0.01	<0.01	<0.01	200	0
		Chrysene	mg/kg	0.005	<0.005	<0.005	200	0
		Coronene	mg/kg	0.005	<0.005	<0.005	200	0
		delta-BHC	mg/kg	0.001	<0.001	<0.001	200	0
		Dibenz (ah) anthracene	mg/kg	0.005	<0.005	<0.005	200	0
		Dieldrin	mg/kg	0.001	<0.001	<0.001	200	0
		Dimethoate	mg/kg	0.01	<0.01	<0.01	200	0
		Disulfoton	mg/kg	0.01	<0.01	<0.01	200	0
		Endosulfan 1	mg/kg	0.001	<0.001	<0.001	200	0
		Endosulfan 2	mg/kg	0.001	<0.001	<0.001	200	0
		Endosulfan Sulphate	mg/kg	0.001	<0.001	<0.001	200	0
		Endrin	mg/kg	0.001	<0.001	<0.001	200	0
		Famphur	mg/kg	0.01	<0.01	<0.01	200	0
		Fluoranthene	mg/kg	0.005	<0.005	<0.005	200	0
		Fluorene	mg/kg	0.005	<0.005	<0.005	200	0
		gamma-BHC	mg/kg	0.001	<0.001	<0.001	200	0
		Heptachlor	mg/kg	0.001	<0.001	<0.001	200	0
		Heptachlor Epoxide	mg/kg	0.001	<0.001	<0.001	200	0
		Hexachlorobenzene	mg/kg	0.001	<0.001	<0.001	200	0
		Indeno (1,2,3-cd) pyrene	mg/kg	0.005	<0.005	<0.005	200	0
		Methoxychlor	mg/kg	0.001	<0.001	<0.001	200	0
		Methyl parathion	mg/kg	0.01	<0.01	<0.01	200	0
		Naphthalene	mg/kg	0.005	<0.005	<0.005	200	0
		O,O,O-Triethylphosphorothioate	mg/kg	0.01	<0.01	<0.01	200	0
		Perylene	mg/kg	0.005	<0.005	<0.005	200	0
		Phenanthrene	mg/kg	0.005	<0.005	<0.005	200	0
		Phorate	mg/kg	0.01	<0.01	<0.01	200	0
		Pyrene	mg/kg	0.005	<0.005	<0.005	200	0
		Stirofos	mg/kg	0.01	<0.01	<0.01	200	0
		Sulfotepp	mg/kg	0.01	<0.01	<0.01	200	0
		Thionazin	mg/kg	0.01	<0.01	<0.01	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean
The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR
Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may give a different calculated RPD.

8270D.SL.01 SVOCs All in Solids/Soils (continued) — **Method: MA 8270**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
ME346357.011	LB071559.017	Total OC Pesticides	mg/kg	0.001	<0.001	<0.001	200	0
		Total PCBs	mg/kg	0.005	<0.005	<0.005	200	0
		Total PAH	mg/kg	0.1	<0.1	<0.1	200	0
		p-Terphenyl-D14 (surrogate)	mg/kg	-	1	1	30	4
ME346357.021	LB071559.030	2-Methylnaphthalene	mg/kg	0.005	<0.005	<0.005	200	0
		4,4-DDD	mg/kg	0.001	<0.001	<0.001	200	0
		4,4-DDE	mg/kg	0.001	<0.001	<0.001	200	0
		4,4-DDT	mg/kg	0.001	<0.001	<0.001	200	0
		Acenaphthene	mg/kg	0.005	<0.005	<0.005	200	0
		Acenaphthylene	mg/kg	0.005	<0.005	<0.005	200	0
		Aldrin	mg/kg	0.001	<0.001	<0.001	200	0
		alpha-BHC	mg/kg	0.001	<0.001	<0.001	200	0
		alpha-Chlordane	mg/kg	0.001	<0.001	<0.001	200	0
		Chlordane (alpha + gamma)	mg/kg	0.001	<0.001	<0.001	200	0
		gamma-Chlordane	mg/kg	0.001	<0.001	<0.001	200	0
		Anthracene	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1016	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1221	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1232	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1242	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1248	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1254	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1260	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1262	mg/kg	0.005	<0.005	<0.005	200	0
		Arochlor 1268	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo(a)anthracene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (a) pyrene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (b+j) fluoranthene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (e) pyrene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (ghi) perylene	mg/kg	0.005	<0.005	<0.005	200	0
		Benzo (k) fluoranthene	mg/kg	0.005	<0.005	<0.005	200	0
		beta-BHC	mg/kg	0.001	<0.001	<0.001	200	0
		Chlorpyrifos	mg/kg	0.01	<0.01	<0.01	200	0
		Chrysene	mg/kg	0.005	<0.005	<0.005	200	0
		Coronene	mg/kg	0.005	<0.005	<0.005	200	0
		delta-BHC	mg/kg	0.001	<0.001	<0.001	200	0
		Dibenz (ah) anthracene	mg/kg	0.005	<0.005	<0.005	200	0
		Dieldrin	mg/kg	0.001	<0.001	<0.001	200	0
		Dimethoate	mg/kg	0.01	<0.01	<0.01	200	0
		Disulfoton	mg/kg	0.01	<0.01	<0.01	200	0
		Endosulfan 1	mg/kg	0.001	<0.001	<0.001	200	0
		Endosulfan 2	mg/kg	0.001	<0.001	<0.001	200	0
		Endosulfan Sulphate	mg/kg	0.001	<0.001	<0.001	200	0
		Endrin	mg/kg	0.001	<0.001	<0.001	200	0
		Famphur	mg/kg	0.01	<0.01	<0.01	200	0
		Fluoranthene	mg/kg	0.005	<0.005	<0.005	200	0
		Fluorene	mg/kg	0.005	<0.005	<0.005	200	0
		gamma-BHC	mg/kg	0.001	<0.001	<0.001	200	0
		Heptachlor	mg/kg	0.001	<0.001	<0.001	200	0
		Heptachlor Epoxide	mg/kg	0.001	<0.001	<0.001	200	0
		Hexachlorobenzene	mg/kg	0.001	<0.001	<0.001	200	0
		Indeno (1,2,3-cd) pyrene	mg/kg	0.005	<0.005	<0.005	200	0
		Methoxychlor	mg/kg	0.001	<0.001	<0.001	200	0
		Methyl parathion	mg/kg	0.01	<0.01	<0.01	200	0
		Naphthalene	mg/kg	0.005	<0.005	<0.005	200	0
		O,O,O-Triethylphosphorothioate	mg/kg	0.01	<0.01	<0.01	200	0
		Perylene	mg/kg	0.005	<0.005	<0.005	200	0
		Phenanthrene	mg/kg	0.005	<0.005	<0.005	200	0
		Phorate	mg/kg	0.01	<0.01	<0.01	200	0
		Pyrene	mg/kg	0.005	<0.005	<0.005	200	0
		Stirofos	mg/kg	0.01	<0.01	<0.01	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean
The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR
Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may give a different calculated RPD.

8270D.SL.01 SVOCs All in Solids/Soils (continued) — **Method: MA 8270**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
ME346357.021	LB071559.030	Sulfotepp	mg/kg	0.01	<0.01	<0.01	200	0
		Thionazin	mg/kg	0.01	<0.01	<0.01	200	0
		Total OC Pesticides	mg/kg	0.001	<0.001	<0.001	200	0
		Total PCBs	mg/kg	0.005	<0.005	<0.005	200	0
		Total PAH	mg/kg	0.1	<0.1	<0.1	200	0
		p-Terphenyl-D14 (surrogate)	mg/kg	-	1	1	30	4

Moisture Content — **Method: ME-(AU)-[ENV]AN002**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
ME346357.001	LB071561.002	% Moisture	%w/w	1	19.1	25.2	35	28
ME346357.011	LB071561.013	% Moisture	%w/w	1	57.1	56.9	32	0
ME346357.021	LB071561.024	% Moisture	%w/w	1	33.9	43.6	33	25

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.

8270D.SL.01 SVOCs All in Solids/Soils — **Method: MA 8270**

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB071559.002	4,4-DDT	mg/kg	0.001	9.8	13	60 - 140	75
	Acenaphthene	mg/kg	0.005	<0.005	2.5	60 - 140	0†
	Aldrin	mg/kg	0.001	1.3	5.2	60 - 140	25†
	Endrin	mg/kg	0.001	7.8	13	60 - 140	60
	gamma-BHC	mg/kg	0.001	3.1	5.2	60 - 140	60
	Pyrene	mg/kg	0.005	2.1	2.5	60 - 140	84
	p-Terphenyl-D14 (surrogate)	mg/kg	-	1	1	60 - 140	113
LB071559.028	4,4-DDT	mg/kg	0.001	9.8	13	60 - 140	75
	Acenaphthene	mg/kg	0.005	<0.005	2.5	60 - 140	0†
	Aldrin	mg/kg	0.001	1.3	5.2	60 - 140	25†
	Endrin	mg/kg	0.001	7.8	13	60 - 140	60
	gamma-BHC	mg/kg	0.001	3.1	5.2	60 - 140	60
	Pyrene	mg/kg	0.005	2.1	2.5	60 - 140	84
	p-Terphenyl-D14 (surrogate)	mg/kg	-	1	1	60 - 140	98

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

8270D.SL.01 SVOCs All in Solids/Soils — **Method: MA 8270**

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
ME346357.001	LB071559.005	2-Methylnaphthalene	mg/kg	0.005	<0.005	<0.005	-	-
		4,4-DDD	mg/kg	0.001	<0.001	<0.001	-	-
		4,4-DDE	mg/kg	0.001	<0.001	<0.001	-	-
		4,4-DDT	mg/kg	0.001	4.8	<0.001	13	37 (11)
		Acenaphthene	mg/kg	0.005	<0.005	<0.005	2.5	0 (11)
		Acenaphthylene	mg/kg	0.005	<0.005	<0.005	-	-
		Aldrin	mg/kg	0.001	2.6	<0.001	5.2	50 (11)
		alpha-BHC	mg/kg	0.001	<0.001	<0.001	-	-
		alpha-Chlordane	mg/kg	0.001	<0.001	<0.001	-	-
		Chlordane (alpha + gamma)	mg/kg	0.001	<0.001	<0.001	-	-
		gamma-Chlordane	mg/kg	0.001	<0.001	<0.001	-	-
		Anthracene	mg/kg	0.005	<0.005	<0.005	-	-
		Arochlor 1016	mg/kg	0.005	<0.005	<0.005	-	-
		Arochlor 1221	mg/kg	0.005	<0.005	<0.005	-	-
		Arochlor 1232	mg/kg	0.005	<0.005	<0.005	-	-
		Arochlor 1242	mg/kg	0.005	<0.005	<0.005	-	-
		Arochlor 1248	mg/kg	0.005	<0.005	<0.005	-	-
		Arochlor 1254	mg/kg	0.005	<0.005	<0.005	-	-
		Arochlor 1260	mg/kg	0.005	<0.005	<0.005	-	-
		Arochlor 1262	mg/kg	0.005	<0.005	<0.005	-	-
		Arochlor 1268	mg/kg	0.005	<0.005	<0.005	-	-
		Benzo(a)anthracene	mg/kg	0.005	<0.005	<0.005	-	-
		Benzo (a) pyrene	mg/kg	0.005	<0.005	<0.005	-	-
		Benzo (b+j) fluoranthene	mg/kg	0.005	<0.005	<0.005	-	-
		Benzo (e) pyrene	mg/kg	0.005	<0.005	<0.005	-	-
		Benzo (ghi) perylene	mg/kg	0.005	<0.005	<0.005	-	-
		Benzo (k) fluoranthene	mg/kg	0.005	<0.005	<0.005	-	-
		beta-BHC	mg/kg	0.001	<0.001	<0.001	-	-
		Chlorpyrifos	mg/kg	0.01	<0.01	<0.01	-	-
		Chrysene	mg/kg	0.005	<0.005	<0.005	-	-
		Coronene	mg/kg	0.005	<0.005	<0.005	-	-
		delta-BHC	mg/kg	0.001	<0.001	<0.001	-	-
		Dibenz (ah) anthracene	mg/kg	0.005	<0.005	<0.005	-	-
		Dimethoate	mg/kg	0.01	<0.01	<0.01	-	-
		Disulfoton	mg/kg	0.01	<0.01	<0.01	-	-
		Endosulfan 1	mg/kg	0.001	<0.001	<0.001	-	-
		Endosulfan 2	mg/kg	0.001	<0.001	<0.001	-	-
		Endosulfan Sulphate	mg/kg	0.001	<0.001	<0.001	-	-
		Endrin	mg/kg	0.001	10	<0.001	13	80
		Famphur	mg/kg	0.01	<0.01	<0.01	-	-
		Fluoranthene	mg/kg	0.005	<0.005	<0.005	-	-
		Fluorene	mg/kg	0.005	<0.005	<0.005	-	-
		gamma-BHC	mg/kg	0.001	3.3	<0.001	5.2	63
		Heptachlor Epoxide	mg/kg	0.001	<0.001	<0.001	-	-
		Hexachlorobenzene	mg/kg	0.001	<0.001	<0.001	-	-
		Indeno (1,2,3-cd) pyrene	mg/kg	0.005	<0.005	<0.005	-	-
		Methoxychlor	mg/kg	0.001	<0.001	<0.001	-	-
		Methyl parathion	mg/kg	0.01	<0.01	<0.01	-	-
		Naphthalene	mg/kg	0.005	<0.005	<0.005	-	-
		O,O,O-Triethylphosphorothioate	mg/kg	0.01	<0.01	<0.01	-	-
		Perylene	mg/kg	0.005	<0.005	<0.005	-	-
		Phenanthrene	mg/kg	0.005	<0.005	<0.005	-	-
		Phorate	mg/kg	0.01	<0.01	<0.01	-	-
		Pyrene	mg/kg	0.005	1.5	<0.005	2.5	61
		Stirofos	mg/kg	0.01	<0.01	<0.01	-	-
		Sulfotepp	mg/kg	0.01	<0.01	<0.01	-	-
		Thionazin	mg/kg	0.01	<0.01	<0.01	-	-
		Total OC Pesticides	mg/kg	0.001	<0.001	<0.001	-	-
		Total PCBs	mg/kg	0.005	<0.005	<0.005	-	-
		Total PAH	mg/kg	0.1	1.5	<0.1	-	-
		p-Terphenyl-D14 (surrogate)	mg/kg	-	1	1	-	135

MATRIX SPIKE DUPLICATES

ME346357 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

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	Majority of surrogate recoveries 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).
⑪	Majority of spike recoveries are within acceptance criteria.
†	Refer to relevant report comments for further information.

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SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS EHS Sydney COC

SE258533

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	SEDIMENT	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3											Additional notes
CS-1 -S	12/12/2023	1			X	1	X															Please analyse <2 mm fraction. LORs for sediment wil need to be below the following:
CS-2 -S	14/12/2023	2			X	1	X															
CS-3 -S	14/12/2023	3			X	1	X															
CS-4 -S	14/12/2023	4			X	1	X															
CS-5 -S	14/12/2023	5			X	1	X															
CS-6 -S	14/12/2023	6			X	1	X															
CS-7 -S	15/12/2023	7			X	1	X															
CS-8 -S	15/12/2023	8			X	1	X															
CS-9 -S	15/12/2023	9			X	1	X															
CS-10 -S	15/12/2023	10			X	1	X															
CS-11 -S	15/12/2023	11			X	1	X															
CS-12 -S SW	15/12/2023	12			X	1	X															
DS1-S	14/12/2023	13			X	1	X															
DS2-S	14/12/2023	14			X	1	X															
DS3-S	14/12/2023	15			X	1	X															

Relinquished By: S.Walsh	Date/Time: 20/12/2023	Received By:	Date/Time 20/12/23 @ 5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	SEDIMENT	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3												Additional notes
DS4-S	15/12/2023	16			X	1	X																
DS5-S	14/12/2023	17			X	1	X																
DS6-S	15/12/2023	18			X	1	X																
DS7-S	15/12/2023	19			X	1	X																
DS8-S	15/12/2023	20			X	1	X																
DS9-S	15/12/2023	21			X	1	X																
DS10-S	15/12/2023	22			X	1	X																
QC9	15/12/2023	23			X	1	X																
QC11	15/12/2023	24			X	1	X																
QC10	15/12/2023				X	1					X												PLEASE FORAWARD TO ENVIROLAB SYDNEY
QC12	15/12/2023				X	1					X												

Relinquished By: S.Walsh	Date/Time: 20/12/2023	Received By:	Date/Time 20/12/23 @ 5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SAMPLE RECEIPT ADVICE

SE258533

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	24

LABORATORY DETAILS

Manager	Huong Crawford
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	Wed 20/12/2023
Report Due	Fri 19/1/2024
SGS Reference	**SE258533**

SUBMISSION DETAILS

This is to confirm that 24 samples were received on Wednesday 20/12/2023. Results are expected to be ready by COB Friday 19/1/2024.
Please quote SGS reference SE258533 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	24 Sediment	Type of documentation received	COC
Date documentation received	20/12/2023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.8°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

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.

SAMPLE RECEIPT ADVICE

SE258533

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	NAGD OC Pesticides in Sediment	NAGD PAH (Poly Aromatic Hydrocarbons) in	OP Pesticides in Soil	PCBs in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	CS-1-S	26	24	14	11	12	11	13
002	CS-2-S	26	24	14	11	12	11	13
003	CS-3-S	26	24	14	11	12	11	13
004	CS-4-S	26	24	14	11	12	11	13
005	CS-5-S	26	24	14	11	12	11	13
006	CS-6-S	26	24	14	11	12	11	13
007	CS-7-S	26	24	14	11	12	11	13
008	CS-8-S	26	24	14	11	12	11	13
009	CS-9-S	26	24	14	11	12	11	13
010	CS-10-S	26	24	14	11	12	11	13
011	CS-11-S	26	24	14	11	12	11	13
012	CS-12-S	26	24	14	11	12	11	13
013	DS1-S	26	24	14	11	12	11	13
014	DS2-S	26	24	14	11	12	11	13
015	DS3-S	26	24	14	11	12	11	13
016	DS4-S	26	24	14	11	12	11	13
017	DS5-S	26	24	14	11	12	11	13
018	DS6-S	26	24	14	11	12	11	13
019	DS7-S	26	24	14	11	12	11	13
020	DS8-S	26	24	14	11	12	11	13
021	DS9-S	26	24	14	11	12	11	13
022	DS10-S	26	24	14	11	12	11	13
023	QC9	26	24	14	11	12	11	13
024	QC11	26	24	14	11	12	11	13

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

SE258533

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil by ICPOES
001	CS-1-S	1	1	7
002	CS-2-S	1	1	7
003	CS-3-S	1	1	7
004	CS-4-S	1	1	7
005	CS-5-S	1	1	7
006	CS-6-S	1	1	7
007	CS-7-S	1	1	7
008	CS-8-S	1	1	7
009	CS-9-S	1	1	7
010	CS-10-S	1	1	7
011	CS-11-S	1	1	7
012	CS-12-S	1	1	7
013	DS1-S	1	1	7
014	DS2-S	1	1	7
015	DS3-S	1	1	7
016	DS4-S	1	1	7
017	DS5-S	1	1	7
018	DS6-S	1	1	7
019	DS7-S	1	1	7
020	DS8-S	1	1	7
021	DS9-S	1	1	7
022	DS10-S	1	1	7
023	QC9	1	1	7
024	QC11	1	1	7

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	33

LABORATORY DETAILS

Manager	Huong Crawford
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	**SE258534 R0**
Date Received	20/12/2023
Date Reported	19/1/2024

COMMENTS

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

% Clay subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146. Report No CE171921

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Kamrul AHSAN
Senior Chemist

Ly Kim HA
Organic Section Head

Shane MCDERMOTT
Inorganic/Metals Chemist

VOC's in Soil [AN433] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH2 0.0-0.1 SOIL - 11/12/2023 SE258534.002	BH3 0.0-0.1 SOIL - 11/12/2023 SE258534.003	BH4 0.0-0.1 SOIL - 11/12/2023 SE258534.004	BH5 0.0-0.1 SOIL - 11/12/2023 SE258534.005
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	BH6 0.0-0.1 SOIL - 11/12/2023 SE258534.006	BH7 0.0-0.1 SOIL - 11/12/2023 SE258534.007	BH8 0.0-0.1 SOIL - 11/12/2023 SE258534.008	BH9 0.0-0.1 SOIL - 12/12/2023 SE258534.009	BH10 0.0-0.1 SOIL - 12/12/2023 SE258534.010
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH12 0.0-0.1 SOIL - 12/12/2023 SE258534.012	BH13 0.0-0.1 SOIL - 12/12/2023 SE258534.013	BH14 0.0-0.1 SOIL - 12/12/2023 SE258534.014	BH15 0.0-0.1 SOIL - 12/12/2023 SE258534.015
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	BH16 0.0-0.1 SOIL - 12/12/2023 SE258534.016	BH17 0.0-0.1 SOIL - 12/12/2023 SE258534.017	BH18 0.0-0.1 SOIL - 12/12/2023 SE258534.018	BH19 0.0-0.1 SOIL - 12/12/2023 SE258534.019	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020
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
Naphthalene (VOC)*	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

VOC's in Soil [AN433] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH21 0.0-0.1 SOIL - 12/12/2023 SE258534.021	BH22 0.0-0.1 SOIL - 12/12/2023 SE258534.022	BH23 0.0-0.1 SOIL - 12/12/2023 SE258534.023	BH24 0.0-0.1 SOIL - 12/12/2023 SE258534.024	BH25 0.0-0.1 SOIL - 12/12/2023 SE258534.025
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	BH26 0.0-0.1 SOIL - 12/12/2023 SE258534.026	BH27 0.0-0.1 SOIL - 12/12/2023 SE258534.027	BH28 0.0-0.1 SOIL - 12/12/2023 SE258534.028	BH29 0.0-0.1 SOIL - 12/12/2023 SE258534.029	BH30 0.0-0.1 SOIL - 12/12/2023 SE258534.030
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	BH31 0.0-0.1 SOIL - 12/12/2023 SE258534.031	BH32 0.0-0.1 SOIL - 12/12/2023 SE258534.032	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH2 0.0-0.1 SOIL - 11/12/2023 SE258534.002	BH3 0.0-0.1 SOIL - 11/12/2023 SE258534.003	BH4 0.0-0.1 SOIL - 11/12/2023 SE258534.004	BH5 0.0-0.1 SOIL - 11/12/2023 SE258534.005
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	BH6 0.0-0.1 SOIL - 11/12/2023 SE258534.006	BH7 0.0-0.1 SOIL - 11/12/2023 SE258534.007	BH8 0.0-0.1 SOIL - 11/12/2023 SE258534.008	BH9 0.0-0.1 SOIL - 12/12/2023 SE258534.009	BH10 0.0-0.1 SOIL - 12/12/2023 SE258534.010
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH12 0.0-0.1 SOIL - 12/12/2023 SE258534.012	BH13 0.0-0.1 SOIL - 12/12/2023 SE258534.013	BH14 0.0-0.1 SOIL - 12/12/2023 SE258534.014	BH15 0.0-0.1 SOIL - 12/12/2023 SE258534.015
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	BH16 0.0-0.1 SOIL - 12/12/2023 SE258534.016	BH17 0.0-0.1 SOIL - 12/12/2023 SE258534.017	BH18 0.0-0.1 SOIL - 12/12/2023 SE258534.018	BH19 0.0-0.1 SOIL - 12/12/2023 SE258534.019	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	BH21 0.0-0.1 SOIL - 12/12/2023 SE258534.021	BH22 0.0-0.1 SOIL - 12/12/2023 SE258534.022	BH23 0.0-0.1 SOIL - 12/12/2023 SE258534.023	BH24 0.0-0.1 SOIL - 12/12/2023 SE258534.024	BH25 0.0-0.1 SOIL - 12/12/2023 SE258534.025
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	BH26 0.0-0.1 SOIL - 12/12/2023 SE258534.026	BH27 0.0-0.1 SOIL - 12/12/2023 SE258534.027	BH28 0.0-0.1 SOIL - 12/12/2023 SE258534.028	BH29 0.0-0.1 SOIL - 12/12/2023 SE258534.029	BH30 0.0-0.1 SOIL - 12/12/2023 SE258534.030
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH31 0.0-0.1 SOIL - 12/12/2023 SE258534.031	BH32 0.0-0.1 SOIL - 12/12/2023 SE258534.032	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH2 0.0-0.1 SOIL - 11/12/2023 SE258534.002	BH3 0.0-0.1 SOIL - 11/12/2023 SE258534.003	BH4 0.0-0.1 SOIL - 11/12/2023 SE258534.004	BH5 0.0-0.1 SOIL - 11/12/2023 SE258534.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	100	82	56	59
TRH C29-C36	mg/kg	45	<45	86	90	59	60
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	160	140	96	100
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	190	170	110	120
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH6 0.0-0.1 SOIL - 11/12/2023 SE258534.006	BH7 0.0-0.1 SOIL - 11/12/2023 SE258534.007	BH8 0.0-0.1 SOIL - 11/12/2023 SE258534.008	BH9 0.0-0.1 SOIL - 12/12/2023 SE258534.009	BH10 0.0-0.1 SOIL - 12/12/2023 SE258534.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	46	120	68	110	71
TRH C29-C36	mg/kg	45	53	180	69	86	65
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	250	120	170	110
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	300	140	190	140
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	250	<210	<210	<210

PARAMETER	UOM	LOR	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH12 0.0-0.1 SOIL - 12/12/2023 SE258534.012	BH13 0.0-0.1 SOIL - 12/12/2023 SE258534.013	BH14 0.0-0.1 SOIL - 12/12/2023 SE258534.014	BH15 0.0-0.1 SOIL - 12/12/2023 SE258534.015
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	120	78	56	130	78
TRH C29-C36	mg/kg	45	160	83	85	160	120
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	230	130	120	250	150
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	290	160	140	300	200
TRH >C10-C40 Total (F bands)	mg/kg	210	230	<210	<210	250	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH16 0.0-0.1 SOIL - 12/12/2023 SE258534.016	BH17 0.0-0.1 SOIL - 12/12/2023 SE258534.017	BH18 0.0-0.1 SOIL - 12/12/2023 SE258534.018	BH19 0.0-0.1 SOIL - 12/12/2023 SE258534.019	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	**86**	<45	**55**	**210**	**210**
TRH C29-C36	mg/kg	45	**98**	**51**	**70**	**200**	**320**
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	**25**	**39**
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	**25**	**39**
TRH >C16-C34 (F3)	mg/kg	90	**150**	<90	**100**	**320**	**430**
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	**120**
TRH C10-C36 Total	mg/kg	110	**180**	<110	**120**	**400**	**530**
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	**340**	**590**

PARAMETER	UOM	LOR	BH21 0.0-0.1 SOIL - 12/12/2023 SE258534.021	BH22 0.0-0.1 SOIL - 12/12/2023 SE258534.022	BH23 0.0-0.1 SOIL - 12/12/2023 SE258534.023	BH24 0.0-0.1 SOIL - 12/12/2023 SE258534.024	BH25 0.0-0.1 SOIL - 12/12/2023 SE258534.025
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	**92**	**68**	**98**	**76**	**63**
TRH C29-C36	mg/kg	45	**130**	**94**	**120**	**99**	**73**
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	**180**	**130**	**180**	**140**	**110**
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	**220**	**160**	**210**	**170**	**140**
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH26 0.0-0.1 SOIL - 12/12/2023 SE258534.026	BH27 0.0-0.1 SOIL - 12/12/2023 SE258534.027	BH28 0.0-0.1 SOIL - 12/12/2023 SE258534.028	BH29 0.0-0.1 SOIL - 12/12/2023 SE258534.029	BH30 0.0-0.1 SOIL - 12/12/2023 SE258534.030
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	**57**	**60**	**55**
TRH C29-C36	mg/kg	45	<45	<45	**76**	**59**	**49**
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	**120**	**110**	**93**
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	**130**	**120**	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH31 0.0-0.1 SOIL - 12/12/2023 SE258534.031	BH32 0.0-0.1 SOIL - 12/12/2023 SE258534.032	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
TRH C10-C14	mg/kg	20	<20	<20	<20
TRH C15-C28	mg/kg	45	**63**	**84**	**53**
TRH C29-C36	mg/kg	45	**63**	**61**	<45
TRH C37-C40	mg/kg	100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	**120**	**130**	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	**130**	**140**	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH2 0.0-0.1 SOIL - 11/12/2023 SE258534.002	BH3 0.0-0.1 SOIL - 11/12/2023 SE258534.003	BH4 0.0-0.1 SOIL - 11/12/2023 SE258534.004	BH5 0.0-0.1 SOIL - 11/12/2023 SE258534.005
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	BH6 0.0-0.1 SOIL - 11/12/2023 SE258534.006	BH7 0.0-0.1 SOIL - 11/12/2023 SE258534.007	BH8 0.0-0.1 SOIL - 11/12/2023 SE258534.008	BH9 0.0-0.1 SOIL - 12/12/2023 SE258534.009	BH10 0.0-0.1 SOIL - 12/12/2023 SE258534.010
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: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH12 0.0-0.1 SOIL - 12/12/2023 SE258534.012	BH13 0.0-0.1 SOIL - 12/12/2023 SE258534.013	BH14 0.0-0.1 SOIL - 12/12/2023 SE258534.014	BH15 0.0-0.1 SOIL - 12/12/2023 SE258534.015
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	BH16 0.0-0.1 SOIL - 12/12/2023 SE258534.016	BH17 0.0-0.1 SOIL - 12/12/2023 SE258534.017	BH18 0.0-0.1 SOIL - 12/12/2023 SE258534.018	BH19 0.0-0.1 SOIL - 12/12/2023 SE258534.019	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020
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: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH21 0.0-0.1 SOIL - 12/12/2023 SE258534.021	BH22 0.0-0.1 SOIL - 12/12/2023 SE258534.022	BH23 0.0-0.1 SOIL - 12/12/2023 SE258534.023	BH24 0.0-0.1 SOIL - 12/12/2023 SE258534.024	BH25 0.0-0.1 SOIL - 12/12/2023 SE258534.025
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	BH26 0.0-0.1 SOIL - 12/12/2023 SE258534.026	BH27 0.0-0.1 SOIL - 12/12/2023 SE258534.027	BH28 0.0-0.1 SOIL - 12/12/2023 SE258534.028	BH29 0.0-0.1 SOIL - 12/12/2023 SE258534.029	BH30 0.0-0.1 SOIL - 12/12/2023 SE258534.030
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: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH31 0.0-0.1 SOIL - 12/12/2023 SE258534.031	BH32 0.0-0.1 SOIL - 12/12/2023 SE258534.032	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	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
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	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
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8

Speciated Phenols in Soil [AN420] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH2 0.0-0.1 SOIL - 11/12/2023 SE258534.002	BH3 0.0-0.1 SOIL - 11/12/2023 SE258534.003	BH4 0.0-0.1 SOIL - 11/12/2023 SE258534.004	BH5 0.0-0.1 SOIL - 11/12/2023 SE258534.005
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	BH6 0.0-0.1 SOIL - 11/12/2023 SE258534.006	BH7 0.0-0.1 SOIL - 11/12/2023 SE258534.007	BH8 0.0-0.1 SOIL - 11/12/2023 SE258534.008	BH9 0.0-0.1 SOIL - 12/12/2023 SE258534.009	BH10 0.0-0.1 SOIL - 12/12/2023 SE258534.010
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH12 0.0-0.1 SOIL - 12/12/2023 SE258534.012	BH13 0.0-0.1 SOIL - 12/12/2023 SE258534.013	BH14 0.0-0.1 SOIL - 12/12/2023 SE258534.014	BH15 0.0-0.1 SOIL - 12/12/2023 SE258534.015
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	BH16 0.0-0.1 SOIL - 12/12/2023 SE258534.016	BH17 0.0-0.1 SOIL - 12/12/2023 SE258534.017	BH18 0.0-0.1 SOIL - 12/12/2023 SE258534.018	BH19 0.0-0.1 SOIL - 12/12/2023 SE258534.019	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH21 0.0-0.1 SOIL - 12/12/2023 SE258534.021	BH22 0.0-0.1 SOIL - 12/12/2023 SE258534.022	BH23 0.0-0.1 SOIL - 12/12/2023 SE258534.023	BH24 0.0-0.1 SOIL - 12/12/2023 SE258534.024	BH25 0.0-0.1 SOIL - 12/12/2023 SE258534.025
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	BH26 0.0-0.1 SOIL - 12/12/2023 SE258534.026	BH27 0.0-0.1 SOIL - 12/12/2023 SE258534.027	BH28 0.0-0.1 SOIL - 12/12/2023 SE258534.028	BH29 0.0-0.1 SOIL - 12/12/2023 SE258534.029	BH30 0.0-0.1 SOIL - 12/12/2023 SE258534.030
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH31 0.0-0.1 SOIL - 12/12/2023 SE258534.031	BH32 0.0-0.1 SOIL - 12/12/2023 SE258534.032	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2

OC Pesticides in Soil [AN420] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH2 0.0-0.1 SOIL - 11/12/2023 SE258534.002	BH3 0.0-0.1 SOIL - 11/12/2023 SE258534.003	BH4 0.0-0.1 SOIL - 11/12/2023 SE258534.004	BH5 0.0-0.1 SOIL - 11/12/2023 SE258534.005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH6 0.0-0.1 SOIL - 11/12/2023 SE258534.006	BH7 0.0-0.1 SOIL - 11/12/2023 SE258534.007	BH8 0.0-0.1 SOIL - 11/12/2023 SE258534.008	BH9 0.0-0.1 SOIL - 12/12/2023 SE258534.009	BH10 0.0-0.1 SOIL - 12/12/2023 SE258534.010
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH12 0.0-0.1 SOIL - 12/12/2023 SE258534.012	BH13 0.0-0.1 SOIL - 12/12/2023 SE258534.013	BH14 0.0-0.1 SOIL - 12/12/2023 SE258534.014	BH15 0.0-0.1 SOIL - 12/12/2023 SE258534.015
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH16 0.0-0.1 SOIL - 12/12/2023 SE258534.016	BH17 0.0-0.1 SOIL - 12/12/2023 SE258534.017	BH18 0.0-0.1 SOIL - 12/12/2023 SE258534.018	BH19 0.0-0.1 SOIL - 12/12/2023 SE258534.019	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH21 0.0-0.1 SOIL - 12/12/2023 SE258534.021	BH22 0.0-0.1 SOIL - 12/12/2023 SE258534.022	BH23 0.0-0.1 SOIL - 12/12/2023 SE258534.023	BH24 0.0-0.1 SOIL - 12/12/2023 SE258534.024	BH25 0.0-0.1 SOIL - 12/12/2023 SE258534.025
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH26 0.0-0.1 SOIL - 12/12/2023 SE258534.026	BH27 0.0-0.1 SOIL - 12/12/2023 SE258534.027	BH28 0.0-0.1 SOIL - 12/12/2023 SE258534.028	BH29 0.0-0.1 SOIL - 12/12/2023 SE258534.029	BH30 0.0-0.1 SOIL - 12/12/2023 SE258534.030
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH31 0.0-0.1 SOIL - 12/12/2023 SE258534.031	BH32 0.0-0.1 SOIL - 12/12/2023 SE258534.032	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Lindane (gamma 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
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1

OP Pesticides in Soil [AN420] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH2 0.0-0.1 SOIL - 11/12/2023 SE258534.002	BH3 0.0-0.1 SOIL - 11/12/2023 SE258534.003	BH4 0.0-0.1 SOIL - 11/12/2023 SE258534.004	BH5 0.0-0.1 SOIL - 11/12/2023 SE258534.005
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	BH6 0.0-0.1 SOIL - 11/12/2023 SE258534.006	BH7 0.0-0.1 SOIL - 11/12/2023 SE258534.007	BH8 0.0-0.1 SOIL - 11/12/2023 SE258534.008	BH9 0.0-0.1 SOIL - 12/12/2023 SE258534.009	BH10 0.0-0.1 SOIL - 12/12/2023 SE258534.010
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	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH12 0.0-0.1 SOIL - 12/12/2023 SE258534.012	BH13 0.0-0.1 SOIL - 12/12/2023 SE258534.013	BH14 0.0-0.1 SOIL - 12/12/2023 SE258534.014	BH15 0.0-0.1 SOIL - 12/12/2023 SE258534.015
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: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH16 0.0-0.1 SOIL - 12/12/2023 SE258534.016	BH17 0.0-0.1 SOIL - 12/12/2023 SE258534.017	BH18 0.0-0.1 SOIL - 12/12/2023 SE258534.018	BH19 0.0-0.1 SOIL - 12/12/2023 SE258534.019	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020
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	BH21 0.0-0.1 SOIL - 12/12/2023 SE258534.021	BH22 0.0-0.1 SOIL - 12/12/2023 SE258534.022	BH23 0.0-0.1 SOIL - 12/12/2023 SE258534.023	BH24 0.0-0.1 SOIL - 12/12/2023 SE258534.024	BH25 0.0-0.1 SOIL - 12/12/2023 SE258534.025
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	BH26 0.0-0.1 SOIL - 12/12/2023 SE258534.026	BH27 0.0-0.1 SOIL - 12/12/2023 SE258534.027	BH28 0.0-0.1 SOIL - 12/12/2023 SE258534.028	BH29 0.0-0.1 SOIL - 12/12/2023 SE258534.029	BH30 0.0-0.1 SOIL - 12/12/2023 SE258534.030
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: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH31 0.0-0.1 SOIL - 12/12/2023 SE258534.031	BH32 0.0-0.1 SOIL - 12/12/2023 SE258534.032	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
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

PCBs in Soil [AN420] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH2 0.0-0.1 SOIL - 11/12/2023 SE258534.002	BH3 0.0-0.1 SOIL - 11/12/2023 SE258534.003	BH4 0.0-0.1 SOIL - 11/12/2023 SE258534.004	BH5 0.0-0.1 SOIL - 11/12/2023 SE258534.005
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH6 0.0-0.1 SOIL - 11/12/2023 SE258534.006	BH7 0.0-0.1 SOIL - 11/12/2023 SE258534.007	BH8 0.0-0.1 SOIL - 11/12/2023 SE258534.008	BH9 0.0-0.1 SOIL - 12/12/2023 SE258534.009	BH10 0.0-0.1 SOIL - 12/12/2023 SE258534.010
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH12 0.0-0.1 SOIL - 12/12/2023 SE258534.012	BH13 0.0-0.1 SOIL - 12/12/2023 SE258534.013	BH14 0.0-0.1 SOIL - 12/12/2023 SE258534.014	BH15 0.0-0.1 SOIL - 12/12/2023 SE258534.015
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH16 0.0-0.1 SOIL - 12/12/2023 SE258534.016	BH17 0.0-0.1 SOIL - 12/12/2023 SE258534.017	BH18 0.0-0.1 SOIL - 12/12/2023 SE258534.018	BH19 0.0-0.1 SOIL - 12/12/2023 SE258534.019	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH21 0.0-0.1 SOIL - 12/12/2023 SE258534.021	BH22 0.0-0.1 SOIL - 12/12/2023 SE258534.022	BH23 0.0-0.1 SOIL - 12/12/2023 SE258534.023	BH24 0.0-0.1 SOIL - 12/12/2023 SE258534.024	BH25 0.0-0.1 SOIL - 12/12/2023 SE258534.025
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH26 0.0-0.1 SOIL - 12/12/2023 SE258534.026	BH27 0.0-0.1 SOIL - 12/12/2023 SE258534.027	BH28 0.0-0.1 SOIL - 12/12/2023 SE258534.028	BH29 0.0-0.1 SOIL - 12/12/2023 SE258534.029	BH30 0.0-0.1 SOIL - 12/12/2023 SE258534.030
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH31 0.0-0.1 SOIL - 12/12/2023 SE258534.031	BH32 0.0-0.1 SOIL - 12/12/2023 SE258534.032	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1

pH in soil (1:5) [AN101] Tested: 27/12/2023

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
pH	pH Units	0.1	**6.8**	**5.3**	**5.4**	**5.7**

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 18/1/2024

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
Exchangeable Calcium, Ca	mg/kg	2	2600	230	230	810
Exchangeable Calcium, Ca	meq/100g	0.01	13	1.1	1.1	4.0
Exchangeable Calcium Percentage*	%	0.1	51.2	27.4	25.3	60.7
Exchangeable Potassium, K	mg/kg	2	200	170	130	89
Exchangeable Potassium, K	meq/100g	0.01	0.52	0.43	0.33	0.23
Exchangeable Potassium Percentage*	%	0.1	2.1	10.3	7.5	3.4
Exchangeable Magnesium, Mg	mg/kg	2	1300	260	290	240
Exchangeable Magnesium, Mg	meq/100g	0.02	11	2.1	2.4	2.0
Exchangeable Magnesium Percentage*	%	0.1	43.0	50.0	54.1	29.8
Exchangeable Sodium, Na	mg/kg	2	210	120	140	93
Exchangeable Sodium, Na	meq/100g	0.01	0.92	0.52	0.59	0.41
Exchangeable Sodium Percentage*	%	0.1	3.7	12.4	13.2	6.1
Cation Exchange Capacity	meq/100g	0.02	25	4.2	4.5	6.7

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH2 0.0-0.1 SOIL - 11/12/2023 SE258534.002	BH3 0.0-0.1 SOIL - 11/12/2023 SE258534.003	BH4 0.0-0.1 SOIL - 11/12/2023 SE258534.004	BH5 0.0-0.1 SOIL - 11/12/2023 SE258534.005
Arsenic, As	mg/kg	1	7	6	5	8	8
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	150	10	9.6	7.9	6.7
Copper, Cu	mg/kg	0.5	83	46	18	39	39
Lead, Pb	mg/kg	1	5	11	12	14	10
Nickel, Ni	mg/kg	0.5	58	10	11	9.9	8.4
Zinc, Zn	mg/kg	2	77	400	62	64	41

PARAMETER	UOM	LOR	BH6 0.0-0.1 SOIL - 11/12/2023 SE258534.006	BH7 0.0-0.1 SOIL - 11/12/2023 SE258534.007	BH8 0.0-0.1 SOIL - 11/12/2023 SE258534.008	BH9 0.0-0.1 SOIL - 12/12/2023 SE258534.009	BH10 0.0-0.1 SOIL - 12/12/2023 SE258534.010
Arsenic, As	mg/kg	1	5	11	4	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	7.6	58	60	72
Copper, Cu	mg/kg	0.5	39	58	21	35	38
Lead, Pb	mg/kg	1	11	9	10	7	6
Nickel, Ni	mg/kg	0.5	7.0	8.8	17	25	34
Zinc, Zn	mg/kg	2	28	88	40	53	63

PARAMETER	UOM	LOR	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH12 0.0-0.1 SOIL - 12/12/2023 SE258534.012	BH13 0.0-0.1 SOIL - 12/12/2023 SE258534.013	BH14 0.0-0.1 SOIL - 12/12/2023 SE258534.014	BH15 0.0-0.1 SOIL - 12/12/2023 SE258534.015
Arsenic, As	mg/kg	1	10	10	7	4	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	17	28	13	18	5.1
Copper, Cu	mg/kg	0.5	15	51	67	37	28
Lead, Pb	mg/kg	1	13	11	7	24	8
Nickel, Ni	mg/kg	0.5	16	10	8.3	19	8.9
Zinc, Zn	mg/kg	2	40	47	88	34	45

PARAMETER	UOM	LOR	BH16 0.0-0.1 SOIL - 12/12/2023 SE258534.016	BH17 0.0-0.1 SOIL - 12/12/2023 SE258534.017	BH18 0.0-0.1 SOIL - 12/12/2023 SE258534.018	BH19 0.0-0.1 SOIL - 12/12/2023 SE258534.019	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020
Arsenic, As	mg/kg	1	5	6	5	14	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	4.0	21	21	10	11
Copper, Cu	mg/kg	0.5	31	17	22	6.4	6.0
Lead, Pb	mg/kg	1	7	15	11	17	20
Nickel, Ni	mg/kg	0.5	4.3	10	12	8.8	5.9
Zinc, Zn	mg/kg	2	34	21	34	40	26

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH21 0.0-0.1 SOIL - 12/12/2023 SE258534.021	BH22 0.0-0.1 SOIL - 12/12/2023 SE258534.022	BH23 0.0-0.1 SOIL - 12/12/2023 SE258534.023	BH24 0.0-0.1 SOIL - 12/12/2023 SE258534.024	BH25 0.0-0.1 SOIL - 12/12/2023 SE258534.025
Arsenic, As	mg/kg	1	5	4	4	2	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	11	7.5	6.4	7.4	45
Copper, Cu	mg/kg	0.5	18	8.0	24	7.6	21
Lead, Pb	mg/kg	1	14	12	12	12	5
Nickel, Ni	mg/kg	0.5	13	5.0	6.6	4.3	43
Zinc, Zn	mg/kg	2	60	24	31	19	150

PARAMETER	UOM	LOR	BH26 0.0-0.1 SOIL - 12/12/2023 SE258534.026	BH27 0.0-0.1 SOIL - 12/12/2023 SE258534.027	BH28 0.0-0.1 SOIL - 12/12/2023 SE258534.028	BH29 0.0-0.1 SOIL - 12/12/2023 SE258534.029	BH30 0.0-0.1 SOIL - 12/12/2023 SE258534.030
Arsenic, As	mg/kg	1	3	5	4	3	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	9.8	7.7	4.7	5.3
Copper, Cu	mg/kg	0.5	17	22	38	22	13
Lead, Pb	mg/kg	1	8	21	20	7	9
Nickel, Ni	mg/kg	0.5	6.9	5.7	7.3	2.3	2.4
Zinc, Zn	mg/kg	2	17	33	59	21	11

PARAMETER	UOM	LOR	BH31 0.0-0.1 SOIL - 12/12/2023 SE258534.031	BH32 0.0-0.1 SOIL - 12/12/2023 SE258534.032	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
Arsenic, As	mg/kg	1	5	4	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	8.6	11	10
Copper, Cu	mg/kg	0.5	52	5.2	9.7
Lead, Pb	mg/kg	1	9	7	19
Nickel, Ni	mg/kg	0.5	2.7	1.4	8.0
Zinc, Zn	mg/kg	2	18	6.6	37

Mercury in Soil [AN312] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH2 0.0-0.1 SOIL - 11/12/2023 SE258534.002	BH3 0.0-0.1 SOIL - 11/12/2023 SE258534.003	BH4 0.0-0.1 SOIL - 11/12/2023 SE258534.004	BH5 0.0-0.1 SOIL - 11/12/2023 SE258534.005
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH6 0.0-0.1 SOIL - 11/12/2023 SE258534.006	BH7 0.0-0.1 SOIL - 11/12/2023 SE258534.007	BH8 0.0-0.1 SOIL - 11/12/2023 SE258534.008	BH9 0.0-0.1 SOIL - 12/12/2023 SE258534.009	BH10 0.0-0.1 SOIL - 12/12/2023 SE258534.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	0.06	<0.05

PARAMETER	UOM	LOR	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH12 0.0-0.1 SOIL - 12/12/2023 SE258534.012	BH13 0.0-0.1 SOIL - 12/12/2023 SE258534.013	BH14 0.0-0.1 SOIL - 12/12/2023 SE258534.014	BH15 0.0-0.1 SOIL - 12/12/2023 SE258534.015
Mercury	mg/kg	0.05	<0.05	0.05	<0.05	0.06	<0.05

PARAMETER	UOM	LOR	BH16 0.0-0.1 SOIL - 12/12/2023 SE258534.016	BH17 0.0-0.1 SOIL - 12/12/2023 SE258534.017	BH18 0.0-0.1 SOIL - 12/12/2023 SE258534.018	BH19 0.0-0.1 SOIL - 12/12/2023 SE258534.019	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020
Mercury	mg/kg	0.05	<0.05	0.05	0.06	<0.05	<0.05

PARAMETER	UOM	LOR	BH21 0.0-0.1 SOIL - 12/12/2023 SE258534.021	BH22 0.0-0.1 SOIL - 12/12/2023 SE258534.022	BH23 0.0-0.1 SOIL - 12/12/2023 SE258534.023	BH24 0.0-0.1 SOIL - 12/12/2023 SE258534.024	BH25 0.0-0.1 SOIL - 12/12/2023 SE258534.025
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH26 0.0-0.1 SOIL - 12/12/2023 SE258534.026	BH27 0.0-0.1 SOIL - 12/12/2023 SE258534.027	BH28 0.0-0.1 SOIL - 12/12/2023 SE258534.028	BH29 0.0-0.1 SOIL - 12/12/2023 SE258534.029	BH30 0.0-0.1 SOIL - 12/12/2023 SE258534.030
Mercury	mg/kg	0.05	0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH31 0.0-0.1 SOIL - 12/12/2023 SE258534.031	BH32 0.0-0.1 SOIL - 12/12/2023 SE258534.032	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05

Moisture Content [AN002] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH2 0.0-0.1 SOIL - 11/12/2023 SE258534.002	BH3 0.0-0.1 SOIL - 11/12/2023 SE258534.003	BH4 0.0-0.1 SOIL - 11/12/2023 SE258534.004	BH5 0.0-0.1 SOIL - 11/12/2023 SE258534.005
% Moisture	%w/w	1	31.9	28.4	27.0	19.0	25.7

PARAMETER	UOM	LOR	BH6 0.0-0.1 SOIL - 11/12/2023 SE258534.006	BH7 0.0-0.1 SOIL - 11/12/2023 SE258534.007	BH8 0.0-0.1 SOIL - 11/12/2023 SE258534.008	BH9 0.0-0.1 SOIL - 12/12/2023 SE258534.009	BH10 0.0-0.1 SOIL - 12/12/2023 SE258534.010
% Moisture	%w/w	1	21.5	34.6	38.2	44.4	32.5

PARAMETER	UOM	LOR	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH12 0.0-0.1 SOIL - 12/12/2023 SE258534.012	BH13 0.0-0.1 SOIL - 12/12/2023 SE258534.013	BH14 0.0-0.1 SOIL - 12/12/2023 SE258534.014	BH15 0.0-0.1 SOIL - 12/12/2023 SE258534.015
% Moisture	%w/w	1	17.3	41.4	30.0	40.1	20.9

PARAMETER	UOM	LOR	BH16 0.0-0.1 SOIL - 12/12/2023 SE258534.016	BH17 0.0-0.1 SOIL - 12/12/2023 SE258534.017	BH18 0.0-0.1 SOIL - 12/12/2023 SE258534.018	BH19 0.0-0.1 SOIL - 12/12/2023 SE258534.019	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020
% Moisture	%w/w	1	32.6	23.4	28.0	15.1	31.4

PARAMETER	UOM	LOR	BH21 0.0-0.1 SOIL - 12/12/2023 SE258534.021	BH22 0.0-0.1 SOIL - 12/12/2023 SE258534.022	BH23 0.0-0.1 SOIL - 12/12/2023 SE258534.023	BH24 0.0-0.1 SOIL - 12/12/2023 SE258534.024	BH25 0.0-0.1 SOIL - 12/12/2023 SE258534.025
% Moisture	%w/w	1	23.7	28.5	38.4	29.1	32.1

PARAMETER	UOM	LOR	BH26 0.0-0.1 SOIL - 12/12/2023 SE258534.026	BH27 0.0-0.1 SOIL - 12/12/2023 SE258534.027	BH28 0.0-0.1 SOIL - 12/12/2023 SE258534.028	BH29 0.0-0.1 SOIL - 12/12/2023 SE258534.029	BH30 0.0-0.1 SOIL - 12/12/2023 SE258534.030
% Moisture	%w/w	1	36.1	26.6	29.1	37.5	32.6

PARAMETER	UOM	LOR	BH31 0.0-0.1 SOIL - 12/12/2023 SE258534.031	BH32 0.0-0.1 SOIL - 12/12/2023 SE258534.032	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
% Moisture	%w/w	1	26.2	18.0	17.4

Particle sizing of soils by sieving [AN005] Tested: 5/1/2024

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
Passing 75µm*	%w/w	1	**38**	**27**	**70**	**49**
Retained 75µm*	%w/w	1	**62**	**73**	**30**	**51**

Particle sizing of soils <75µm by hydrometer [AN005] Tested: 5/1/2024

PARAMETER	UOM	LOR	BH1 0.0-0.1 SOIL - 11/12/2023 SE258534.001	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534.011	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534.020	BH33 0.0-0.1 SOIL - 12/12/2023 SE258534.033
Clay (<0.002mm)*	%w/w	0.1	**6.0**	**6.0**	**6.0**	**6.0**

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.
AN005	The particle size distribution of a soil is determined by wet sieving, using a maximum of 900 mL of deionised water to sieve all fractions down to 75 µm. Referenced to AS1289.3.6.1 and AS1141.11.
AN005	Following wet sieving of the sample,(particles smaller than 75 µm) a dispersing solution is added and a hydrometer is used to measure sedimentation. Soil density is determined and the percentage of each size fraction calculated. Referenced to AS1289.3.6.3.
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.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN122	Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g.
AN122	The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100. ESP can be used to categorise the sodicity of the soil as below: ESP < 6% non-sodic ESP 6-15% sodic ESP >15% strongly sodic Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.-
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).

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.

FOOTNOTES

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

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STATEMENT OF QA/QC PERFORMANCE

SE258534 R0

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Project	**P23158**
Order Number	**P23158**
Samples	33

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SGS Reference	**SE258534 R0**
Date Received	20 Dec 2023
Date Reported	19 Jan 2024

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)	4 items
	pH in soil (1:5)	4 items
Analysis Date	Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)	4 items
	Mercury in Soil	27 items
	Moisture Content	27 items
	VOC's in Soil	56 items
	Volatile Petroleum Hydrocarbons in Soil	91 items
Surrogate	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	1 item
	Speciated Phenols in Soil	3 items
Matrix Spike	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	2 items
	TRH (Total Recoverable Hydrocarbons) in Soil	4 items
	VOC's in Soil	1 item
	Volatile Petroleum Hydrocarbons in Soil	1 item

SAMPLE SUMMARY

Sample counts by matrix	33 Soil	Type of documentation received	COC
Date documentation received	20/12/2023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.8°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE258534 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

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.0-0.1	SE258534.001	LB301571	11 Dec 2023	20 Dec 2023	08 Jan 2024	18 Jan 2024†	08 Jan 2024	19 Jan 2024†
BH11 0.0-0.1	SE258534.011	LB301571	12 Dec 2023	20 Dec 2023	09 Jan 2024	18 Jan 2024†	09 Jan 2024	19 Jan 2024†
BH20 0.0-0.1	SE258534.020	LB301571	12 Dec 2023	20 Dec 2023	09 Jan 2024	18 Jan 2024†	09 Jan 2024	19 Jan 2024†
BH33 0.0-0.1	SE258534.033	LB301571	12 Dec 2023	20 Dec 2023	09 Jan 2024	18 Jan 2024†	09 Jan 2024	19 Jan 2024†

Mercury in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.0-0.1	SE258534.001	LB300422	11 Dec 2023	20 Dec 2023	08 Jan 2024	22 Dec 2023	08 Jan 2024	28 Dec 2023
BH2 0.0-0.1	SE258534.002	LB300422	11 Dec 2023	20 Dec 2023	08 Jan 2024	22 Dec 2023	08 Jan 2024	28 Dec 2023
BH3 0.0-0.1	SE258534.003	LB300422	11 Dec 2023	20 Dec 2023	08 Jan 2024	22 Dec 2023	08 Jan 2024	28 Dec 2023
BH4 0.0-0.1	SE258534.004	LB300422	11 Dec 2023	20 Dec 2023	08 Jan 2024	22 Dec 2023	08 Jan 2024	28 Dec 2023
BH5 0.0-0.1	SE258534.005	LB300422	11 Dec 2023	20 Dec 2023	08 Jan 2024	22 Dec 2023	08 Jan 2024	28 Dec 2023
BH6 0.0-0.1	SE258534.006	LB300422	11 Dec 2023	20 Dec 2023	08 Jan 2024	22 Dec 2023	08 Jan 2024	28 Dec 2023
BH7 0.0-0.1	SE258534.007	LB300386	11 Dec 2023	20 Dec 2023	08 Jan 2024	21 Dec 2023	08 Jan 2024	15 Jan 2024†
BH8 0.0-0.1	SE258534.008	LB300386	11 Dec 2023	20 Dec 2023	08 Jan 2024	21 Dec 2023	08 Jan 2024	15 Jan 2024†
BH9 0.0-0.1	SE258534.009	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH10 0.0-0.1	SE258534.010	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH11 0.0-0.1	SE258534.011	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH12 0.0-0.1	SE258534.012	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH13 0.0-0.1	SE258534.013	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH14 0.0-0.1	SE258534.014	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH15 0.0-0.1	SE258534.015	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH16 0.0-0.1	SE258534.016	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH17 0.0-0.1	SE258534.017	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH18 0.0-0.1	SE258534.018	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH19 0.0-0.1	SE258534.019	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH20 0.0-0.1	SE258534.020	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH21 0.0-0.1	SE258534.021	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH22 0.0-0.1	SE258534.022	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH23 0.0-0.1	SE258534.023	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH24 0.0-0.1	SE258534.024	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH25 0.0-0.1	SE258534.025	LB300386	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	15 Jan 2024†
BH26 0.0-0.1	SE258534.026	LB300387	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	16 Jan 2024†
BH27 0.0-0.1	SE258534.027	LB300387	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	16 Jan 2024†
BH28 0.0-0.1	SE258534.028	LB300387	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	16 Jan 2024†
BH29 0.0-0.1	SE258534.029	LB300387	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	16 Jan 2024†
BH30 0.0-0.1	SE258534.030	LB300387	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	16 Jan 2024†
BH31 0.0-0.1	SE258534.031	LB300387	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	16 Jan 2024†
BH32 0.0-0.1	SE258534.032	LB300387	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	16 Jan 2024†
BH33 0.0-0.1	SE258534.033	LB300387	12 Dec 2023	20 Dec 2023	09 Jan 2024	21 Dec 2023	09 Jan 2024	16 Jan 2024†

Moisture Content

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.0-0.1	SE258534.001	LB300423	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	27 Dec 2023	27 Dec 2023
BH2 0.0-0.1	SE258534.002	LB300423	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	27 Dec 2023	27 Dec 2023
BH3 0.0-0.1	SE258534.003	LB300423	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	27 Dec 2023	27 Dec 2023
BH4 0.0-0.1	SE258534.004	LB300423	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	27 Dec 2023	27 Dec 2023
BH5 0.0-0.1	SE258534.005	LB300423	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	27 Dec 2023	27 Dec 2023
BH6 0.0-0.1	SE258534.006	LB300423	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	27 Dec 2023	27 Dec 2023
BH7 0.0-0.1	SE258534.007	LB300376	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH8 0.0-0.1	SE258534.008	LB300376	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH9 0.0-0.1	SE258534.009	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH10 0.0-0.1	SE258534.010	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH11 0.0-0.1	SE258534.011	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH12 0.0-0.1	SE258534.012	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH13 0.0-0.1	SE258534.013	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH14 0.0-0.1	SE258534.014	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH15 0.0-0.1	SE258534.015	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH16 0.0-0.1	SE258534.016	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH17 0.0-0.1	SE258534.017	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH18 0.0-0.1	SE258534.018	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†

HOLDING TIME SUMMARY

SE258534 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

Moisture Content (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH19 0.0-0.1	SE258534.019	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH20 0.0-0.1	SE258534.020	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH21 0.0-0.1	SE258534.021	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH22 0.0-0.1	SE258534.022	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH23 0.0-0.1	SE258534.023	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH24 0.0-0.1	SE258534.024	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH25 0.0-0.1	SE258534.025	LB300376	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH26 0.0-0.1	SE258534.026	LB300377	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH27 0.0-0.1	SE258534.027	LB300377	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH28 0.0-0.1	SE258534.028	LB300377	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH29 0.0-0.1	SE258534.029	LB300377	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH30 0.0-0.1	SE258534.030	LB300377	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH31 0.0-0.1	SE258534.031	LB300377	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH32 0.0-0.1	SE258534.032	LB300377	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH33 0.0-0.1	SE258534.033	LB300377	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†

OC Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.0-0.1	SE258534.001	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH2 0.0-0.1	SE258534.002	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH3 0.0-0.1	SE258534.003	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH4 0.0-0.1	SE258534.004	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH5 0.0-0.1	SE258534.005	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH6 0.0-0.1	SE258534.006	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH7 0.0-0.1	SE258534.007	LB300366	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH8 0.0-0.1	SE258534.008	LB300366	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH9 0.0-0.1	SE258534.009	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH10 0.0-0.1	SE258534.010	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH11 0.0-0.1	SE258534.011	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH12 0.0-0.1	SE258534.012	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH13 0.0-0.1	SE258534.013	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH14 0.0-0.1	SE258534.014	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH15 0.0-0.1	SE258534.015	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH16 0.0-0.1	SE258534.016	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH17 0.0-0.1	SE258534.017	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH18 0.0-0.1	SE258534.018	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH19 0.0-0.1	SE258534.019	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH20 0.0-0.1	SE258534.020	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH21 0.0-0.1	SE258534.021	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH22 0.0-0.1	SE258534.022	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH23 0.0-0.1	SE258534.023	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH24 0.0-0.1	SE258534.024	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH25 0.0-0.1	SE258534.025	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH26 0.0-0.1	SE258534.026	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH27 0.0-0.1	SE258534.027	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH28 0.0-0.1	SE258534.028	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH29 0.0-0.1	SE258534.029	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH30 0.0-0.1	SE258534.030	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH31 0.0-0.1	SE258534.031	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH32 0.0-0.1	SE258534.032	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH33 0.0-0.1	SE258534.033	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023

OP Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.0-0.1	SE258534.001	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH2 0.0-0.1	SE258534.002	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH3 0.0-0.1	SE258534.003	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH4 0.0-0.1	SE258534.004	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH5 0.0-0.1	SE258534.005	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH6 0.0-0.1	SE258534.006	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH7 0.0-0.1	SE258534.007	LB300366	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023

HOLDING TIME SUMMARY

SE258534 R0

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Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

OP Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH8 0.0-0.1	SE258534.008	LB300366	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH9 0.0-0.1	SE258534.009	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH10 0.0-0.1	SE258534.010	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH11 0.0-0.1	SE258534.011	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH12 0.0-0.1	SE258534.012	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH13 0.0-0.1	SE258534.013	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH14 0.0-0.1	SE258534.014	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH15 0.0-0.1	SE258534.015	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH16 0.0-0.1	SE258534.016	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH17 0.0-0.1	SE258534.017	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH18 0.0-0.1	SE258534.018	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH19 0.0-0.1	SE258534.019	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH20 0.0-0.1	SE258534.020	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH21 0.0-0.1	SE258534.021	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH22 0.0-0.1	SE258534.022	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH23 0.0-0.1	SE258534.023	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH24 0.0-0.1	SE258534.024	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH25 0.0-0.1	SE258534.025	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH26 0.0-0.1	SE258534.026	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH27 0.0-0.1	SE258534.027	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH28 0.0-0.1	SE258534.028	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH29 0.0-0.1	SE258534.029	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH30 0.0-0.1	SE258534.030	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH31 0.0-0.1	SE258534.031	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH32 0.0-0.1	SE258534.032	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH33 0.0-0.1	SE258534.033	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023

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
BH1 0.0-0.1	SE258534.001	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH2 0.0-0.1	SE258534.002	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH3 0.0-0.1	SE258534.003	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH4 0.0-0.1	SE258534.004	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH5 0.0-0.1	SE258534.005	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH6 0.0-0.1	SE258534.006	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH7 0.0-0.1	SE258534.007	LB300366	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH8 0.0-0.1	SE258534.008	LB300366	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH9 0.0-0.1	SE258534.009	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH10 0.0-0.1	SE258534.010	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH11 0.0-0.1	SE258534.011	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH12 0.0-0.1	SE258534.012	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH13 0.0-0.1	SE258534.013	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH14 0.0-0.1	SE258534.014	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH15 0.0-0.1	SE258534.015	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH16 0.0-0.1	SE258534.016	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH17 0.0-0.1	SE258534.017	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH18 0.0-0.1	SE258534.018	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH19 0.0-0.1	SE258534.019	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH20 0.0-0.1	SE258534.020	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH21 0.0-0.1	SE258534.021	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH22 0.0-0.1	SE258534.022	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH23 0.0-0.1	SE258534.023	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH24 0.0-0.1	SE258534.024	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH25 0.0-0.1	SE258534.025	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH26 0.0-0.1	SE258534.026	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH27 0.0-0.1	SE258534.027	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH28 0.0-0.1	SE258534.028	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH29 0.0-0.1	SE258534.029	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH30 0.0-0.1	SE258534.030	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH31 0.0-0.1	SE258534.031	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023

HOLDING TIME SUMMARY

SE258534 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

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
BH32 0.0-0.1	SE258534.032	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH33 0.0-0.1	SE258534.033	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023

PCBs in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.0-0.1	SE258534.001	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH2 0.0-0.1	SE258534.002	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH3 0.0-0.1	SE258534.003	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH4 0.0-0.1	SE258534.004	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH5 0.0-0.1	SE258534.005	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH6 0.0-0.1	SE258534.006	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH7 0.0-0.1	SE258534.007	LB300366	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH8 0.0-0.1	SE258534.008	LB300366	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH9 0.0-0.1	SE258534.009	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH10 0.0-0.1	SE258534.010	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH11 0.0-0.1	SE258534.011	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH12 0.0-0.1	SE258534.012	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH13 0.0-0.1	SE258534.013	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH14 0.0-0.1	SE258534.014	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH15 0.0-0.1	SE258534.015	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH16 0.0-0.1	SE258534.016	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH17 0.0-0.1	SE258534.017	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH18 0.0-0.1	SE258534.018	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH19 0.0-0.1	SE258534.019	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH20 0.0-0.1	SE258534.020	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH21 0.0-0.1	SE258534.021	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH22 0.0-0.1	SE258534.022	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH23 0.0-0.1	SE258534.023	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH24 0.0-0.1	SE258534.024	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH25 0.0-0.1	SE258534.025	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH26 0.0-0.1	SE258534.026	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH27 0.0-0.1	SE258534.027	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH28 0.0-0.1	SE258534.028	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH29 0.0-0.1	SE258534.029	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH30 0.0-0.1	SE258534.030	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH31 0.0-0.1	SE258534.031	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH32 0.0-0.1	SE258534.032	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH33 0.0-0.1	SE258534.033	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.0-0.1	SE258534.001	LB300526	11 Dec 2023	20 Dec 2023	18 Dec 2023	27 Dec 2023†	28 Dec 2023	27 Dec 2023
BH11 0.0-0.1	SE258534.011	LB301177	12 Dec 2023	20 Dec 2023	19 Dec 2023	15 Jan 2024†	16 Jan 2024	15 Jan 2024
BH20 0.0-0.1	SE258534.020	LB301177	12 Dec 2023	20 Dec 2023	19 Dec 2023	15 Jan 2024†	16 Jan 2024	15 Jan 2024
BH33 0.0-0.1	SE258534.033	LB301177	12 Dec 2023	20 Dec 2023	19 Dec 2023	15 Jan 2024†	16 Jan 2024	15 Jan 2024

Speciated Phenols in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.0-0.1	SE258534.001	LB300310	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH2 0.0-0.1	SE258534.002	LB300310	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH3 0.0-0.1	SE258534.003	LB300310	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH4 0.0-0.1	SE258534.004	LB300310	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH5 0.0-0.1	SE258534.005	LB300310	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH6 0.0-0.1	SE258534.006	LB300310	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH7 0.0-0.1	SE258534.007	LB300311	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH8 0.0-0.1	SE258534.008	LB300311	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH9 0.0-0.1	SE258534.009	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH10 0.0-0.1	SE258534.010	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH11 0.0-0.1	SE258534.011	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH12 0.0-0.1	SE258534.012	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH13 0.0-0.1	SE258534.013	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023

HOLDING TIME SUMMARY

SE258534 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

Speciated Phenols in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH14 0.0-0.1	SE258534.014	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH15 0.0-0.1	SE258534.015	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH16 0.0-0.1	SE258534.016	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH17 0.0-0.1	SE258534.017	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH18 0.0-0.1	SE258534.018	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH19 0.0-0.1	SE258534.019	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH20 0.0-0.1	SE258534.020	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH21 0.0-0.1	SE258534.021	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH22 0.0-0.1	SE258534.022	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH23 0.0-0.1	SE258534.023	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH24 0.0-0.1	SE258534.024	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH25 0.0-0.1	SE258534.025	LB300311	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	27 Dec 2023
BH26 0.0-0.1	SE258534.026	LB300312	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH27 0.0-0.1	SE258534.027	LB300312	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH28 0.0-0.1	SE258534.028	LB300312	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH29 0.0-0.1	SE258534.029	LB300312	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH30 0.0-0.1	SE258534.030	LB300312	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH31 0.0-0.1	SE258534.031	LB300312	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH32 0.0-0.1	SE258534.032	LB300312	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH33 0.0-0.1	SE258534.033	LB300312	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023

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
BH1 0.0-0.1	SE258534.001	LB300421	11 Dec 2023	20 Dec 2023	08 Jun 2024	22 Dec 2023	08 Jun 2024	28 Dec 2023
BH2 0.0-0.1	SE258534.002	LB300421	11 Dec 2023	20 Dec 2023	08 Jun 2024	22 Dec 2023	08 Jun 2024	28 Dec 2023
BH3 0.0-0.1	SE258534.003	LB300421	11 Dec 2023	20 Dec 2023	08 Jun 2024	22 Dec 2023	08 Jun 2024	28 Dec 2023
BH4 0.0-0.1	SE258534.004	LB300421	11 Dec 2023	20 Dec 2023	08 Jun 2024	22 Dec 2023	08 Jun 2024	28 Dec 2023
BH5 0.0-0.1	SE258534.005	LB300421	11 Dec 2023	20 Dec 2023	08 Jun 2024	22 Dec 2023	08 Jun 2024	28 Dec 2023
BH6 0.0-0.1	SE258534.006	LB300421	11 Dec 2023	20 Dec 2023	08 Jun 2024	22 Dec 2023	08 Jun 2024	28 Dec 2023
BH7 0.0-0.1	SE258534.007	LB300381	11 Dec 2023	20 Dec 2023	08 Jun 2024	21 Dec 2023	08 Jun 2024	15 Jan 2024
BH8 0.0-0.1	SE258534.008	LB300381	11 Dec 2023	20 Dec 2023	08 Jun 2024	21 Dec 2023	08 Jun 2024	15 Jan 2024
BH9 0.0-0.1	SE258534.009	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH10 0.0-0.1	SE258534.010	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH11 0.0-0.1	SE258534.011	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH12 0.0-0.1	SE258534.012	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH13 0.0-0.1	SE258534.013	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH14 0.0-0.1	SE258534.014	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH15 0.0-0.1	SE258534.015	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH16 0.0-0.1	SE258534.016	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH17 0.0-0.1	SE258534.017	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH18 0.0-0.1	SE258534.018	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH19 0.0-0.1	SE258534.019	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH20 0.0-0.1	SE258534.020	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH21 0.0-0.1	SE258534.021	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH22 0.0-0.1	SE258534.022	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH23 0.0-0.1	SE258534.023	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH24 0.0-0.1	SE258534.024	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH25 0.0-0.1	SE258534.025	LB300381	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	15 Jan 2024
BH26 0.0-0.1	SE258534.026	LB300382	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	16 Jan 2024
BH27 0.0-0.1	SE258534.027	LB300382	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	16 Jan 2024
BH28 0.0-0.1	SE258534.028	LB300382	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	16 Jan 2024
BH29 0.0-0.1	SE258534.029	LB300382	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	16 Jan 2024
BH30 0.0-0.1	SE258534.030	LB300382	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	16 Jan 2024
BH31 0.0-0.1	SE258534.031	LB300382	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	16 Jan 2024
BH32 0.0-0.1	SE258534.032	LB300382	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	16 Jan 2024
BH33 0.0-0.1	SE258534.033	LB300382	12 Dec 2023	20 Dec 2023	09 Jun 2024	21 Dec 2023	09 Jun 2024	16 Jan 2024

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
BH1 0.0-0.1	SE258534.001	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH2 0.0-0.1	SE258534.002	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

TRH (Total Recoverable Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN403**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH3 0.0-0.1	SE258534.003	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH4 0.0-0.1	SE258534.004	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH5 0.0-0.1	SE258534.005	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH6 0.0-0.1	SE258534.006	LB300391	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH7 0.0-0.1	SE258534.007	LB300366	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH8 0.0-0.1	SE258534.008	LB300366	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH9 0.0-0.1	SE258534.009	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH10 0.0-0.1	SE258534.010	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH11 0.0-0.1	SE258534.011	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH12 0.0-0.1	SE258534.012	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH13 0.0-0.1	SE258534.013	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH14 0.0-0.1	SE258534.014	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH15 0.0-0.1	SE258534.015	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH16 0.0-0.1	SE258534.016	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH17 0.0-0.1	SE258534.017	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH18 0.0-0.1	SE258534.018	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH19 0.0-0.1	SE258534.019	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH20 0.0-0.1	SE258534.020	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH21 0.0-0.1	SE258534.021	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH22 0.0-0.1	SE258534.022	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH23 0.0-0.1	SE258534.023	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH24 0.0-0.1	SE258534.024	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH25 0.0-0.1	SE258534.025	LB300366	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH26 0.0-0.1	SE258534.026	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH27 0.0-0.1	SE258534.027	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH28 0.0-0.1	SE258534.028	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH29 0.0-0.1	SE258534.029	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH30 0.0-0.1	SE258534.030	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH31 0.0-0.1	SE258534.031	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH32 0.0-0.1	SE258534.032	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH33 0.0-0.1	SE258534.033	LB300367	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023

VOC's in Soil — **Method: ME-(AU)-[ENV]AN433**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.0-0.1	SE258534.001	LB300420	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	25 Dec 2023	28 Dec 2023†
BH2 0.0-0.1	SE258534.002	LB300420	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	25 Dec 2023	28 Dec 2023†
BH3 0.0-0.1	SE258534.003	LB300420	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	25 Dec 2023	28 Dec 2023†
BH4 0.0-0.1	SE258534.004	LB300420	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	25 Dec 2023	28 Dec 2023†
BH5 0.0-0.1	SE258534.005	LB300420	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	25 Dec 2023	28 Dec 2023†
BH6 0.0-0.1	SE258534.006	LB300420	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	25 Dec 2023	28 Dec 2023†
BH7 0.0-0.1	SE258534.007	LB300371	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	25 Dec 2023	28 Dec 2023†
BH8 0.0-0.1	SE258534.008	LB300371	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	25 Dec 2023	28 Dec 2023†
BH9 0.0-0.1	SE258534.009	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH10 0.0-0.1	SE258534.010	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH11 0.0-0.1	SE258534.011	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH12 0.0-0.1	SE258534.012	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH13 0.0-0.1	SE258534.013	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH14 0.0-0.1	SE258534.014	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH15 0.0-0.1	SE258534.015	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH16 0.0-0.1	SE258534.016	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH17 0.0-0.1	SE258534.017	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH18 0.0-0.1	SE258534.018	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH19 0.0-0.1	SE258534.019	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH20 0.0-0.1	SE258534.020	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH21 0.0-0.1	SE258534.021	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH22 0.0-0.1	SE258534.022	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH23 0.0-0.1	SE258534.023	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH24 0.0-0.1	SE258534.024	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH25 0.0-0.1	SE258534.025	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH26 0.0-0.1	SE258534.026	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†

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
BH27 0.0-0.1	SE258534.027	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH28 0.0-0.1	SE258534.028	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH29 0.0-0.1	SE258534.029	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH30 0.0-0.1	SE258534.030	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH31 0.0-0.1	SE258534.031	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH32 0.0-0.1	SE258534.032	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH33 0.0-0.1	SE258534.033	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†

Volatile Petroleum Hydrocarbons in Soil — **Method: ME-(AU)-[ENV]AN433**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1 0.0-0.1	SE258534.001	LB300420	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	25 Dec 2023	28 Dec 2023†
BH2 0.0-0.1	SE258534.002	LB300420	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	25 Dec 2023	28 Dec 2023†
BH3 0.0-0.1	SE258534.003	LB300420	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	25 Dec 2023	28 Dec 2023†
BH4 0.0-0.1	SE258534.004	LB300420	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	25 Dec 2023	28 Dec 2023†
BH5 0.0-0.1	SE258534.005	LB300420	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	25 Dec 2023	28 Dec 2023†
BH6 0.0-0.1	SE258534.006	LB300420	11 Dec 2023	20 Dec 2023	25 Dec 2023	22 Dec 2023	25 Dec 2023	28 Dec 2023†
BH7 0.0-0.1	SE258534.007	LB300371	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	25 Dec 2023	28 Dec 2023†
BH8 0.0-0.1	SE258534.008	LB300371	11 Dec 2023	20 Dec 2023	25 Dec 2023	21 Dec 2023	25 Dec 2023	28 Dec 2023†
BH9 0.0-0.1	SE258534.009	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH10 0.0-0.1	SE258534.010	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH11 0.0-0.1	SE258534.011	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH12 0.0-0.1	SE258534.012	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH13 0.0-0.1	SE258534.013	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH14 0.0-0.1	SE258534.014	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH15 0.0-0.1	SE258534.015	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH16 0.0-0.1	SE258534.016	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH17 0.0-0.1	SE258534.017	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH18 0.0-0.1	SE258534.018	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH19 0.0-0.1	SE258534.019	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH20 0.0-0.1	SE258534.020	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH21 0.0-0.1	SE258534.021	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH22 0.0-0.1	SE258534.022	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH23 0.0-0.1	SE258534.023	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH24 0.0-0.1	SE258534.024	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH25 0.0-0.1	SE258534.025	LB300371	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH26 0.0-0.1	SE258534.026	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH27 0.0-0.1	SE258534.027	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH28 0.0-0.1	SE258534.028	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH29 0.0-0.1	SE258534.029	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH30 0.0-0.1	SE258534.030	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH31 0.0-0.1	SE258534.031	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH32 0.0-0.1	SE258534.032	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†
BH33 0.0-0.1	SE258534.033	LB300372	12 Dec 2023	20 Dec 2023	26 Dec 2023	21 Dec 2023	26 Dec 2023	28 Dec 2023†

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH1 0.0-0.1	SE258534.001	%	60 - 130%	110
	BH2 0.0-0.1	SE258534.002	%	60 - 130%	107
	BH3 0.0-0.1	SE258534.003	%	60 - 130%	112
	BH4 0.0-0.1	SE258534.004	%	60 - 130%	103
	BH5 0.0-0.1	SE258534.005	%	60 - 130%	110
	BH6 0.0-0.1	SE258534.006	%	60 - 130%	103
	BH7 0.0-0.1	SE258534.007	%	60 - 130%	117
	BH8 0.0-0.1	SE258534.008	%	60 - 130%	112
	BH9 0.0-0.1	SE258534.009	%	60 - 130%	124
	BH10 0.0-0.1	SE258534.010	%	60 - 130%	115
	BH11 0.0-0.1	SE258534.011	%	60 - 130%	117
	BH12 0.0-0.1	SE258534.012	%	60 - 130%	120
	BH13 0.0-0.1	SE258534.013	%	60 - 130%	120
	BH14 0.0-0.1	SE258534.014	%	60 - 130%	114
	BH15 0.0-0.1	SE258534.015	%	60 - 130%	115
	BH16 0.0-0.1	SE258534.016	%	60 - 130%	121
	BH17 0.0-0.1	SE258534.017	%	60 - 130%	125
	BH18 0.0-0.1	SE258534.018	%	60 - 130%	124
	BH19 0.0-0.1	SE258534.019	%	60 - 130%	119
	BH20 0.0-0.1	SE258534.020	%	60 - 130%	114
	BH21 0.0-0.1	SE258534.021	%	60 - 130%	117
	BH22 0.0-0.1	SE258534.022	%	60 - 130%	118
	BH23 0.0-0.1	SE258534.023	%	60 - 130%	114
	BH24 0.0-0.1	SE258534.024	%	60 - 130%	116
	BH25 0.0-0.1	SE258534.025	%	60 - 130%	116
	BH26 0.0-0.1	SE258534.026	%	60 - 130%	127
	BH27 0.0-0.1	SE258534.027	%	60 - 130%	126
	BH28 0.0-0.1	SE258534.028	%	60 - 130%	126
	BH29 0.0-0.1	SE258534.029	%	60 - 130%	129
	BH30 0.0-0.1	SE258534.030	%	60 - 130%	124
	BH31 0.0-0.1	SE258534.031	%	60 - 130%	127
	BH32 0.0-0.1	SE258534.032	%	60 - 130%	128
	BH33 0.0-0.1	SE258534.033	%	60 - 130%	127

OP Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1 0.0-0.1	SE258534.001	%	60 - 130%	99
	BH2 0.0-0.1	SE258534.002	%	60 - 130%	102
	BH3 0.0-0.1	SE258534.003	%	60 - 130%	102
	BH4 0.0-0.1	SE258534.004	%	60 - 130%	100
	BH5 0.0-0.1	SE258534.005	%	60 - 130%	93
	BH6 0.0-0.1	SE258534.006	%	60 - 130%	100
	BH7 0.0-0.1	SE258534.007	%	60 - 130%	100
	BH8 0.0-0.1	SE258534.008	%	60 - 130%	82
	BH9 0.0-0.1	SE258534.009	%	60 - 130%	95
	BH10 0.0-0.1	SE258534.010	%	60 - 130%	87
	BH11 0.0-0.1	SE258534.011	%	60 - 130%	94
	BH12 0.0-0.1	SE258534.012	%	60 - 130%	96
	BH13 0.0-0.1	SE258534.013	%	60 - 130%	91
	BH14 0.0-0.1	SE258534.014	%	60 - 130%	95
	BH15 0.0-0.1	SE258534.015	%	60 - 130%	100
	BH16 0.0-0.1	SE258534.016	%	60 - 130%	97
	BH17 0.0-0.1	SE258534.017	%	60 - 130%	96
	BH18 0.0-0.1	SE258534.018	%	60 - 130%	101
	BH19 0.0-0.1	SE258534.019	%	60 - 130%	100
	BH20 0.0-0.1	SE258534.020	%	60 - 130%	107
	BH21 0.0-0.1	SE258534.021	%	60 - 130%	103
	BH22 0.0-0.1	SE258534.022	%	60 - 130%	87
	BH23 0.0-0.1	SE258534.023	%	60 - 130%	93
	BH24 0.0-0.1	SE258534.024	%	60 - 130%	100
	BH25 0.0-0.1	SE258534.025	%	60 - 130%	93

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH26 0.0-0.1	SE258534.026	%	60 - 130%	112
	BH27 0.0-0.1	SE258534.027	%	60 - 130%	121
	BH28 0.0-0.1	SE258534.028	%	60 - 130%	106
	BH29 0.0-0.1	SE258534.029	%	60 - 130%	106
	BH30 0.0-0.1	SE258534.030	%	60 - 130%	111
	BH31 0.0-0.1	SE258534.031	%	60 - 130%	103
	BH32 0.0-0.1	SE258534.032	%	60 - 130%	98
	BH33 0.0-0.1	SE258534.033	%	60 - 130%	109
d14-p-terphenyl (Surrogate)	BH1 0.0-0.1	SE258534.001	%	60 - 130%	101
	BH2 0.0-0.1	SE258534.002	%	60 - 130%	106
	BH3 0.0-0.1	SE258534.003	%	60 - 130%	105
	BH4 0.0-0.1	SE258534.004	%	60 - 130%	103
	BH5 0.0-0.1	SE258534.005	%	60 - 130%	96
	BH6 0.0-0.1	SE258534.006	%	60 - 130%	104
	BH7 0.0-0.1	SE258534.007	%	60 - 130%	97
	BH8 0.0-0.1	SE258534.008	%	60 - 130%	84
	BH9 0.0-0.1	SE258534.009	%	60 - 130%	95
	BH10 0.0-0.1	SE258534.010	%	60 - 130%	89
	BH11 0.0-0.1	SE258534.011	%	60 - 130%	92
	BH12 0.0-0.1	SE258534.012	%	60 - 130%	94
	BH13 0.0-0.1	SE258534.013	%	60 - 130%	96
	BH14 0.0-0.1	SE258534.014	%	60 - 130%	91
	BH15 0.0-0.1	SE258534.015	%	60 - 130%	100
	BH16 0.0-0.1	SE258534.016	%	60 - 130%	98
	BH17 0.0-0.1	SE258534.017	%	60 - 130%	99
	BH18 0.0-0.1	SE258534.018	%	60 - 130%	102
	BH19 0.0-0.1	SE258534.019	%	60 - 130%	96
	BH20 0.0-0.1	SE258534.020	%	60 - 130%	103
	BH21 0.0-0.1	SE258534.021	%	60 - 130%	99
	BH22 0.0-0.1	SE258534.022	%	60 - 130%	88
	BH23 0.0-0.1	SE258534.023	%	60 - 130%	91
	BH24 0.0-0.1	SE258534.024	%	60 - 130%	100
	BH25 0.0-0.1	SE258534.025	%	60 - 130%	98
	BH26 0.0-0.1	SE258534.026	%	60 - 130%	109
	BH27 0.0-0.1	SE258534.027	%	60 - 130%	109
	BH28 0.0-0.1	SE258534.028	%	60 - 130%	101
	BH29 0.0-0.1	SE258534.029	%	60 - 130%	105
	BH30 0.0-0.1	SE258534.030	%	60 - 130%	110
	BH31 0.0-0.1	SE258534.031	%	60 - 130%	105
	BH32 0.0-0.1	SE258534.032	%	60 - 130%	95
	BH33 0.0-0.1	SE258534.033	%	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)	BH1 0.0-0.1	SE258534.001	%	70 - 130%	99
	BH2 0.0-0.1	SE258534.002	%	70 - 130%	102
	BH3 0.0-0.1	SE258534.003	%	70 - 130%	102
	BH4 0.0-0.1	SE258534.004	%	70 - 130%	100
	BH5 0.0-0.1	SE258534.005	%	70 - 130%	93
	BH6 0.0-0.1	SE258534.006	%	70 - 130%	100
	BH7 0.0-0.1	SE258534.007	%	70 - 130%	100
	BH8 0.0-0.1	SE258534.008	%	70 - 130%	82
	BH9 0.0-0.1	SE258534.009	%	70 - 130%	95
	BH10 0.0-0.1	SE258534.010	%	70 - 130%	87
	BH11 0.0-0.1	SE258534.011	%	70 - 130%	94
	BH12 0.0-0.1	SE258534.012	%	70 - 130%	96
	BH13 0.0-0.1	SE258534.013	%	70 - 130%	91
	BH14 0.0-0.1	SE258534.014	%	70 - 130%	95
	BH15 0.0-0.1	SE258534.015	%	70 - 130%	100
	BH16 0.0-0.1	SE258534.016	%	70 - 130%	97
	BH17 0.0-0.1	SE258534.017	%	70 - 130%	96

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH18 0.0-0.1	SE258534.018	%	70 - 130%	101
	BH19 0.0-0.1	SE258534.019	%	70 - 130%	100
	BH20 0.0-0.1	SE258534.020	%	70 - 130%	107
	BH21 0.0-0.1	SE258534.021	%	70 - 130%	103
	BH22 0.0-0.1	SE258534.022	%	70 - 130%	87
	BH23 0.0-0.1	SE258534.023	%	70 - 130%	93
	BH24 0.0-0.1	SE258534.024	%	70 - 130%	100
	BH25 0.0-0.1	SE258534.025	%	70 - 130%	93
	BH26 0.0-0.1	SE258534.026	%	70 - 130%	112
	BH27 0.0-0.1	SE258534.027	%	70 - 130%	121
	BH28 0.0-0.1	SE258534.028	%	70 - 130%	106
	BH29 0.0-0.1	SE258534.029	%	70 - 130%	106
	BH30 0.0-0.1	SE258534.030	%	70 - 130%	111
	BH31 0.0-0.1	SE258534.031	%	70 - 130%	103
	BH32 0.0-0.1	SE258534.032	%	70 - 130%	98
	BH33 0.0-0.1	SE258534.033	%	70 - 130%	109
d14-p-terphenyl (Surrogate)	BH1 0.0-0.1	SE258534.001	%	70 - 130%	101
	BH2 0.0-0.1	SE258534.002	%	70 - 130%	106
	BH3 0.0-0.1	SE258534.003	%	70 - 130%	105
	BH4 0.0-0.1	SE258534.004	%	70 - 130%	103
	BH5 0.0-0.1	SE258534.005	%	70 - 130%	96
	BH6 0.0-0.1	SE258534.006	%	70 - 130%	104
	BH7 0.0-0.1	SE258534.007	%	70 - 130%	97
	BH8 0.0-0.1	SE258534.008	%	70 - 130%	84
	BH9 0.0-0.1	SE258534.009	%	70 - 130%	95
	BH10 0.0-0.1	SE258534.010	%	70 - 130%	89
	BH11 0.0-0.1	SE258534.011	%	70 - 130%	92
	BH12 0.0-0.1	SE258534.012	%	70 - 130%	94
	BH13 0.0-0.1	SE258534.013	%	70 - 130%	96
	BH14 0.0-0.1	SE258534.014	%	70 - 130%	91
	BH15 0.0-0.1	SE258534.015	%	70 - 130%	100
	BH16 0.0-0.1	SE258534.016	%	70 - 130%	98
	BH17 0.0-0.1	SE258534.017	%	70 - 130%	99
	BH18 0.0-0.1	SE258534.018	%	70 - 130%	102
	BH19 0.0-0.1	SE258534.019	%	70 - 130%	96
	BH20 0.0-0.1	SE258534.020	%	70 - 130%	103
	BH21 0.0-0.1	SE258534.021	%	70 - 130%	99
	BH22 0.0-0.1	SE258534.022	%	70 - 130%	88
	BH23 0.0-0.1	SE258534.023	%	70 - 130%	91
	BH24 0.0-0.1	SE258534.024	%	70 - 130%	100
	BH25 0.0-0.1	SE258534.025	%	70 - 130%	98
	BH26 0.0-0.1	SE258534.026	%	70 - 130%	109
	BH27 0.0-0.1	SE258534.027	%	70 - 130%	109
	BH28 0.0-0.1	SE258534.028	%	70 - 130%	101
	BH29 0.0-0.1	SE258534.029	%	70 - 130%	105
	BH30 0.0-0.1	SE258534.030	%	70 - 130%	110
	BH31 0.0-0.1	SE258534.031	%	70 - 130%	105
	BH32 0.0-0.1	SE258534.032	%	70 - 130%	95
	BH33 0.0-0.1	SE258534.033	%	70 - 130%	103
d5-nitrobenzene (Surrogate)	BH1 0.0-0.1	SE258534.001	%	70 - 130%	101
	BH2 0.0-0.1	SE258534.002	%	70 - 130%	105
	BH3 0.0-0.1	SE258534.003	%	70 - 130%	107
	BH4 0.0-0.1	SE258534.004	%	70 - 130%	105
	BH5 0.0-0.1	SE258534.005	%	70 - 130%	98
	BH6 0.0-0.1	SE258534.006	%	70 - 130%	105
	BH7 0.0-0.1	SE258534.007	%	70 - 130%	106
	BH8 0.0-0.1	SE258534.008	%	70 - 130%	89
	BH9 0.0-0.1	SE258534.009	%	70 - 130%	106
	BH10 0.0-0.1	SE258534.010	%	70 - 130%	98
	BH11 0.0-0.1	SE258534.011	%	70 - 130%	100
	BH12 0.0-0.1	SE258534.012	%	70 - 130%	103

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-nitrobenzene (Surrogate)	BH13 0.0-0.1	SE258534.013	%	70 - 130%	103
	BH14 0.0-0.1	SE258534.014	%	70 - 130%	102
	BH15 0.0-0.1	SE258534.015	%	70 - 130%	113
	BH16 0.0-0.1	SE258534.016	%	70 - 130%	109
	BH17 0.0-0.1	SE258534.017	%	70 - 130%	107
	BH18 0.0-0.1	SE258534.018	%	70 - 130%	112
	BH19 0.0-0.1	SE258534.019	%	70 - 130%	108
	BH20 0.0-0.1	SE258534.020	%	70 - 130%	116
	BH21 0.0-0.1	SE258534.021	%	70 - 130%	113
	BH22 0.0-0.1	SE258534.022	%	70 - 130%	95
	BH23 0.0-0.1	SE258534.023	%	70 - 130%	102
	BH24 0.0-0.1	SE258534.024	%	70 - 130%	113
	BH25 0.0-0.1	SE258534.025	%	70 - 130%	110
	BH26 0.0-0.1	SE258534.026	%	70 - 130%	114
	BH27 0.0-0.1	SE258534.027	%	70 - 130%	134 ⓘ
	BH28 0.0-0.1	SE258534.028	%	70 - 130%	111
	BH29 0.0-0.1	SE258534.029	%	70 - 130%	114
	BH30 0.0-0.1	SE258534.030	%	70 - 130%	122
	BH31 0.0-0.1	SE258534.031	%	70 - 130%	112
	BH32 0.0-0.1	SE258534.032	%	70 - 130%	102
	BH33 0.0-0.1	SE258534.033	%	70 - 130%	115

PCBs in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH1 0.0-0.1	SE258534.001	%	60 - 130%	110
	BH2 0.0-0.1	SE258534.002	%	60 - 130%	107
	BH3 0.0-0.1	SE258534.003	%	60 - 130%	112
	BH4 0.0-0.1	SE258534.004	%	60 - 130%	105
	BH5 0.0-0.1	SE258534.005	%	60 - 130%	110
	BH6 0.0-0.1	SE258534.006	%	60 - 130%	105
	BH7 0.0-0.1	SE258534.007	%	60 - 130%	116
	BH8 0.0-0.1	SE258534.008	%	60 - 130%	114
	BH9 0.0-0.1	SE258534.009	%	60 - 130%	126
	BH10 0.0-0.1	SE258534.010	%	60 - 130%	117
	BH11 0.0-0.1	SE258534.011	%	60 - 130%	121
	BH12 0.0-0.1	SE258534.012	%	60 - 130%	121
	BH13 0.0-0.1	SE258534.013	%	60 - 130%	121
	BH14 0.0-0.1	SE258534.014	%	60 - 130%	115
	BH15 0.0-0.1	SE258534.015	%	60 - 130%	115
	BH16 0.0-0.1	SE258534.016	%	60 - 130%	122
	BH17 0.0-0.1	SE258534.017	%	60 - 130%	126
	BH18 0.0-0.1	SE258534.018	%	60 - 130%	125
	BH19 0.0-0.1	SE258534.019	%	60 - 130%	124
	BH20 0.0-0.1	SE258534.020	%	60 - 130%	117
	BH21 0.0-0.1	SE258534.021	%	60 - 130%	119
	BH22 0.0-0.1	SE258534.022	%	60 - 130%	120
	BH23 0.0-0.1	SE258534.023	%	60 - 130%	115
	BH24 0.0-0.1	SE258534.024	%	60 - 130%	117
	BH25 0.0-0.1	SE258534.025	%	60 - 130%	124
	BH26 0.0-0.1	SE258534.026	%	60 - 130%	124
	BH27 0.0-0.1	SE258534.027	%	60 - 130%	124
	BH28 0.0-0.1	SE258534.028	%	60 - 130%	124
	BH29 0.0-0.1	SE258534.029	%	60 - 130%	126
	BH30 0.0-0.1	SE258534.030	%	60 - 130%	126
	BH31 0.0-0.1	SE258534.031	%	60 - 130%	128
	BH32 0.0-0.1	SE258534.032	%	60 - 130%	126
	BH33 0.0-0.1	SE258534.033	%	60 - 130%	128

Speciated Phenols in Soil

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

Parameter	Sample Name	Sample Number	Units

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Speciated Phenols in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	BH1 0.0-0.1	SE258534.001	%	70 - 130%	74
	BH2 0.0-0.1	SE258534.002	%	70 - 130%	76
	BH3 0.0-0.1	SE258534.003	%	70 - 130%	65 ④
	BH4 0.0-0.1	SE258534.004	%	70 - 130%	67 ④
	BH5 0.0-0.1	SE258534.005	%	70 - 130%	83
	BH6 0.0-0.1	SE258534.006	%	70 - 130%	86
	BH7 0.0-0.1	SE258534.007	%	70 - 130%	101
	BH8 0.0-0.1	SE258534.008	%	70 - 130%	98
	BH9 0.0-0.1	SE258534.009	%	70 - 130%	97
	BH10 0.0-0.1	SE258534.010	%	70 - 130%	99
	BH11 0.0-0.1	SE258534.011	%	70 - 130%	101
	BH12 0.0-0.1	SE258534.012	%	70 - 130%	101
	BH13 0.0-0.1	SE258534.013	%	70 - 130%	103
	BH14 0.0-0.1	SE258534.014	%	70 - 130%	96
	BH15 0.0-0.1	SE258534.015	%	70 - 130%	105
	BH16 0.0-0.1	SE258534.016	%	70 - 130%	95
	BH17 0.0-0.1	SE258534.017	%	70 - 130%	93
	BH18 0.0-0.1	SE258534.018	%	70 - 130%	83
	BH19 0.0-0.1	SE258534.019	%	70 - 130%	94
	BH20 0.0-0.1	SE258534.020	%	70 - 130%	94
	BH21 0.0-0.1	SE258534.021	%	70 - 130%	80
	BH22 0.0-0.1	SE258534.022	%	70 - 130%	100
	BH23 0.0-0.1	SE258534.023	%	70 - 130%	78
	BH24 0.0-0.1	SE258534.024	%	70 - 130%	95
	BH25 0.0-0.1	SE258534.025	%	70 - 130%	101
	BH26 0.0-0.1	SE258534.026	%	70 - 130%	88
	BH27 0.0-0.1	SE258534.027	%	70 - 130%	97
	BH28 0.0-0.1	SE258534.028	%	70 - 130%	90
	BH29 0.0-0.1	SE258534.029	%	70 - 130%	104
	BH30 0.0-0.1	SE258534.030	%	70 - 130%	105
	BH31 0.0-0.1	SE258534.031	%	70 - 130%	101
	BH32 0.0-0.1	SE258534.032	%	70 - 130%	110
	BH33 0.0-0.1	SE258534.033	%	70 - 130%	92
d5-phenol (Surrogate)	BH1 0.0-0.1	SE258534.001	%	50 - 130%	86
	BH2 0.0-0.1	SE258534.002	%	50 - 130%	88
	BH3 0.0-0.1	SE258534.003	%	50 - 130%	88
	BH4 0.0-0.1	SE258534.004	%	50 - 130%	85
	BH5 0.0-0.1	SE258534.005	%	50 - 130%	93
	BH6 0.0-0.1	SE258534.006	%	50 - 130%	98
	BH7 0.0-0.1	SE258534.007	%	50 - 130%	94
	BH8 0.0-0.1	SE258534.008	%	50 - 130%	91
	BH9 0.0-0.1	SE258534.009	%	50 - 130%	93
	BH10 0.0-0.1	SE258534.010	%	50 - 130%	96
	BH11 0.0-0.1	SE258534.011	%	50 - 130%	81
	BH12 0.0-0.1	SE258534.012	%	50 - 130%	94
	BH13 0.0-0.1	SE258534.013	%	50 - 130%	96
	BH14 0.0-0.1	SE258534.014	%	50 - 130%	96
	BH15 0.0-0.1	SE258534.015	%	50 - 130%	92
	BH16 0.0-0.1	SE258534.016	%	50 - 130%	94
	BH17 0.0-0.1	SE258534.017	%	50 - 130%	82
	BH18 0.0-0.1	SE258534.018	%	50 - 130%	64
	BH19 0.0-0.1	SE258534.019	%	50 - 130%	66
	BH20 0.0-0.1	SE258534.020	%	50 - 130%	88
	BH21 0.0-0.1	SE258534.021	%	50 - 130%	56
	BH22 0.0-0.1	SE258534.022	%	50 - 130%	92
	BH23 0.0-0.1	SE258534.023	%	50 - 130%	47 ④
	BH24 0.0-0.1	SE258534.024	%	50 - 130%	92
	BH25 0.0-0.1	SE258534.025	%	50 - 130%	96
	BH26 0.0-0.1	SE258534.026	%	50 - 130%	81
	BH27 0.0-0.1	SE258534.027	%	50 - 130%	93
	BH28 0.0-0.1	SE258534.028	%	50 - 130%	87

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Speciated Phenols in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-phenol (Surrogate)	BH29 0.0-0.1	SE258534.029	%	50 - 130%	93
	BH30 0.0-0.1	SE258534.030	%	50 - 130%	95
	BH31 0.0-0.1	SE258534.031	%	50 - 130%	95
	BH32 0.0-0.1	SE258534.032	%	50 - 130%	104
	BH33 0.0-0.1	SE258534.033	%	50 - 130%	91

VOC's in Soil — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1 0.0-0.1	SE258534.001	%	60 - 130%	78
	BH2 0.0-0.1	SE258534.002	%	60 - 130%	86
	BH3 0.0-0.1	SE258534.003	%	60 - 130%	75
	BH4 0.0-0.1	SE258534.004	%	60 - 130%	81
	BH5 0.0-0.1	SE258534.005	%	60 - 130%	77
	BH6 0.0-0.1	SE258534.006	%	60 - 130%	79
	BH7 0.0-0.1	SE258534.007	%	60 - 130%	76
	BH8 0.0-0.1	SE258534.008	%	60 - 130%	74
	BH9 0.0-0.1	SE258534.009	%	60 - 130%	71
	BH10 0.0-0.1	SE258534.010	%	60 - 130%	71
	BH11 0.0-0.1	SE258534.011	%	60 - 130%	81
	BH12 0.0-0.1	SE258534.012	%	60 - 130%	74
	BH13 0.0-0.1	SE258534.013	%	60 - 130%	73
	BH14 0.0-0.1	SE258534.014	%	60 - 130%	68
	BH15 0.0-0.1	SE258534.015	%	60 - 130%	77
	BH16 0.0-0.1	SE258534.016	%	60 - 130%	66
	BH17 0.0-0.1	SE258534.017	%	60 - 130%	78
	BH18 0.0-0.1	SE258534.018	%	60 - 130%	76
	BH19 0.0-0.1	SE258534.019	%	60 - 130%	81
	BH20 0.0-0.1	SE258534.020	%	60 - 130%	74
	BH21 0.0-0.1	SE258534.021	%	60 - 130%	73
	BH22 0.0-0.1	SE258534.022	%	60 - 130%	77
	BH23 0.0-0.1	SE258534.023	%	60 - 130%	70
	BH24 0.0-0.1	SE258534.024	%	60 - 130%	75
	BH25 0.0-0.1	SE258534.025	%	60 - 130%	74
	BH26 0.0-0.1	SE258534.026	%	60 - 130%	71
	BH27 0.0-0.1	SE258534.027	%	60 - 130%	76
	BH28 0.0-0.1	SE258534.028	%	60 - 130%	78
	BH29 0.0-0.1	SE258534.029	%	60 - 130%	72
	BH30 0.0-0.1	SE258534.030	%	60 - 130%	70
	BH31 0.0-0.1	SE258534.031	%	60 - 130%	77
	BH32 0.0-0.1	SE258534.032	%	60 - 130%	73
	BH33 0.0-0.1	SE258534.033	%	60 - 130%	77
d4-1,2-dichloroethane (Surrogate)	BH1 0.0-0.1	SE258534.001	%	60 - 130%	88
	BH2 0.0-0.1	SE258534.002	%	60 - 130%	92
	BH3 0.0-0.1	SE258534.003	%	60 - 130%	84
	BH4 0.0-0.1	SE258534.004	%	60 - 130%	87
	BH5 0.0-0.1	SE258534.005	%	60 - 130%	88
	BH6 0.0-0.1	SE258534.006	%	60 - 130%	92
	BH7 0.0-0.1	SE258534.007	%	60 - 130%	84
	BH8 0.0-0.1	SE258534.008	%	60 - 130%	84
	BH9 0.0-0.1	SE258534.009	%	60 - 130%	84
	BH10 0.0-0.1	SE258534.010	%	60 - 130%	105
	BH11 0.0-0.1	SE258534.011	%	60 - 130%	112
	BH12 0.0-0.1	SE258534.012	%	60 - 130%	104
	BH13 0.0-0.1	SE258534.013	%	60 - 130%	89
	BH14 0.0-0.1	SE258534.014	%	60 - 130%	92
	BH15 0.0-0.1	SE258534.015	%	60 - 130%	88
	BH16 0.0-0.1	SE258534.016	%	60 - 130%	76
	BH17 0.0-0.1	SE258534.017	%	60 - 130%	97
	BH18 0.0-0.1	SE258534.018	%	60 - 130%	90
	BH19 0.0-0.1	SE258534.019	%	60 - 130%	111
	BH20 0.0-0.1	SE258534.020	%	60 - 130%	106

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	BH21 0.0-0.1	SE258534.021	%	60 - 130%	100
	BH22 0.0-0.1	SE258534.022	%	60 - 130%	104
	BH23 0.0-0.1	SE258534.023	%	60 - 130%	83
	BH24 0.0-0.1	SE258534.024	%	60 - 130%	98
	BH25 0.0-0.1	SE258534.025	%	60 - 130%	100
	BH26 0.0-0.1	SE258534.026	%	60 - 130%	78
	BH27 0.0-0.1	SE258534.027	%	60 - 130%	77
	BH28 0.0-0.1	SE258534.028	%	60 - 130%	72
	BH29 0.0-0.1	SE258534.029	%	60 - 130%	75
	BH30 0.0-0.1	SE258534.030	%	60 - 130%	76
	BH31 0.0-0.1	SE258534.031	%	60 - 130%	81
	BH32 0.0-0.1	SE258534.032	%	60 - 130%	79
	BH33 0.0-0.1	SE258534.033	%	60 - 130%	83
d8-toluene (Surrogate)	BH1 0.0-0.1	SE258534.001	%	60 - 130%	86
	BH2 0.0-0.1	SE258534.002	%	60 - 130%	95
	BH3 0.0-0.1	SE258534.003	%	60 - 130%	86
	BH4 0.0-0.1	SE258534.004	%	60 - 130%	90
	BH5 0.0-0.1	SE258534.005	%	60 - 130%	88
	BH6 0.0-0.1	SE258534.006	%	60 - 130%	92
	BH7 0.0-0.1	SE258534.007	%	60 - 130%	79
	BH8 0.0-0.1	SE258534.008	%	60 - 130%	78
	BH9 0.0-0.1	SE258534.009	%	60 - 130%	76
	BH10 0.0-0.1	SE258534.010	%	60 - 130%	87
	BH11 0.0-0.1	SE258534.011	%	60 - 130%	98
	BH12 0.0-0.1	SE258534.012	%	60 - 130%	90
	BH13 0.0-0.1	SE258534.013	%	60 - 130%	81
	BH14 0.0-0.1	SE258534.014	%	60 - 130%	80
	BH15 0.0-0.1	SE258534.015	%	60 - 130%	81
	BH16 0.0-0.1	SE258534.016	%	60 - 130%	71
	BH17 0.0-0.1	SE258534.017	%	60 - 130%	87
	BH18 0.0-0.1	SE258534.018	%	60 - 130%	82
	BH19 0.0-0.1	SE258534.019	%	60 - 130%	98
	BH20 0.0-0.1	SE258534.020	%	60 - 130%	87
	BH21 0.0-0.1	SE258534.021	%	60 - 130%	85
	BH22 0.0-0.1	SE258534.022	%	60 - 130%	89
	BH23 0.0-0.1	SE258534.023	%	60 - 130%	77
	BH24 0.0-0.1	SE258534.024	%	60 - 130%	87
	BH25 0.0-0.1	SE258534.025	%	60 - 130%	87
	BH26 0.0-0.1	SE258534.026	%	60 - 130%	73
	BH27 0.0-0.1	SE258534.027	%	60 - 130%	78
	BH28 0.0-0.1	SE258534.028	%	60 - 130%	80
	BH29 0.0-0.1	SE258534.029	%	60 - 130%	74
	BH30 0.0-0.1	SE258534.030	%	60 - 130%	76
	BH31 0.0-0.1	SE258534.031	%	60 - 130%	79
	BH32 0.0-0.1	SE258534.032	%	60 - 130%	78
	BH33 0.0-0.1	SE258534.033	%	60 - 130%	81

Volatile Petroleum Hydrocarbons in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1 0.0-0.1	SE258534.001	%	60 - 130%	78
	BH2 0.0-0.1	SE258534.002	%	60 - 130%	86
	BH3 0.0-0.1	SE258534.003	%	60 - 130%	75
	BH4 0.0-0.1	SE258534.004	%	60 - 130%	81
	BH5 0.0-0.1	SE258534.005	%	60 - 130%	77
	BH6 0.0-0.1	SE258534.006	%	60 - 130%	79
	BH7 0.0-0.1	SE258534.007	%	60 - 130%	76
	BH8 0.0-0.1	SE258534.008	%	60 - 130%	74
	BH9 0.0-0.1	SE258534.009	%	60 - 130%	71
	BH10 0.0-0.1	SE258534.010	%	60 - 130%	71
	BH11 0.0-0.1	SE258534.011	%	60 - 130%	81
	BH12 0.0-0.1	SE258534.012	%	60 - 130%	74

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH13 0.0-0.1	SE258534.013	%	60 - 130%	73
	BH14 0.0-0.1	SE258534.014	%	60 - 130%	68
	BH15 0.0-0.1	SE258534.015	%	60 - 130%	77
	BH16 0.0-0.1	SE258534.016	%	60 - 130%	66
	BH17 0.0-0.1	SE258534.017	%	60 - 130%	78
	BH18 0.0-0.1	SE258534.018	%	60 - 130%	76
	BH19 0.0-0.1	SE258534.019	%	60 - 130%	81
	BH20 0.0-0.1	SE258534.020	%	60 - 130%	74
	BH21 0.0-0.1	SE258534.021	%	60 - 130%	73
	BH22 0.0-0.1	SE258534.022	%	60 - 130%	77
	BH23 0.0-0.1	SE258534.023	%	60 - 130%	70
	BH24 0.0-0.1	SE258534.024	%	60 - 130%	75
	BH25 0.0-0.1	SE258534.025	%	60 - 130%	74
	BH26 0.0-0.1	SE258534.026	%	60 - 130%	71
	BH27 0.0-0.1	SE258534.027	%	60 - 130%	76
	BH28 0.0-0.1	SE258534.028	%	60 - 130%	78
	BH29 0.0-0.1	SE258534.029	%	60 - 130%	72
	BH30 0.0-0.1	SE258534.030	%	60 - 130%	70
	BH31 0.0-0.1	SE258534.031	%	60 - 130%	77
	BH32 0.0-0.1	SE258534.032	%	60 - 130%	73
	BH33 0.0-0.1	SE258534.033	%	60 - 130%	77
d4-1,2-dichloroethane (Surrogate)	BH1 0.0-0.1	SE258534.001	%	60 - 130%	88
	BH2 0.0-0.1	SE258534.002	%	60 - 130%	92
	BH3 0.0-0.1	SE258534.003	%	60 - 130%	84
	BH4 0.0-0.1	SE258534.004	%	60 - 130%	87
	BH5 0.0-0.1	SE258534.005	%	60 - 130%	88
	BH6 0.0-0.1	SE258534.006	%	60 - 130%	92
	BH7 0.0-0.1	SE258534.007	%	60 - 130%	84
	BH8 0.0-0.1	SE258534.008	%	60 - 130%	84
	BH9 0.0-0.1	SE258534.009	%	60 - 130%	84
	BH10 0.0-0.1	SE258534.010	%	60 - 130%	105
	BH11 0.0-0.1	SE258534.011	%	60 - 130%	112
	BH12 0.0-0.1	SE258534.012	%	60 - 130%	104
	BH13 0.0-0.1	SE258534.013	%	60 - 130%	89
	BH14 0.0-0.1	SE258534.014	%	60 - 130%	92
	BH15 0.0-0.1	SE258534.015	%	60 - 130%	88
	BH16 0.0-0.1	SE258534.016	%	60 - 130%	76
	BH17 0.0-0.1	SE258534.017	%	60 - 130%	97
	BH18 0.0-0.1	SE258534.018	%	60 - 130%	90
	BH19 0.0-0.1	SE258534.019	%	60 - 130%	111
	BH20 0.0-0.1	SE258534.020	%	60 - 130%	106
	BH21 0.0-0.1	SE258534.021	%	60 - 130%	100
	BH22 0.0-0.1	SE258534.022	%	60 - 130%	104
	BH23 0.0-0.1	SE258534.023	%	60 - 130%	83
	BH24 0.0-0.1	SE258534.024	%	60 - 130%	98
	BH25 0.0-0.1	SE258534.025	%	60 - 130%	100
	BH26 0.0-0.1	SE258534.026	%	60 - 130%	78
	BH27 0.0-0.1	SE258534.027	%	60 - 130%	77
	BH28 0.0-0.1	SE258534.028	%	60 - 130%	72
	BH29 0.0-0.1	SE258534.029	%	60 - 130%	75
	BH30 0.0-0.1	SE258534.030	%	60 - 130%	76
	BH31 0.0-0.1	SE258534.031	%	60 - 130%	81
	BH32 0.0-0.1	SE258534.032	%	60 - 130%	79
	BH33 0.0-0.1	SE258534.033	%	60 - 130%	83
d8-toluene (Surrogate)	BH1 0.0-0.1	SE258534.001	%	60 - 130%	86
	BH2 0.0-0.1	SE258534.002	%	60 - 130%	95
	BH3 0.0-0.1	SE258534.003	%	60 - 130%	86
	BH4 0.0-0.1	SE258534.004	%	60 - 130%	90
	BH5 0.0-0.1	SE258534.005	%	60 - 130%	88
	BH6 0.0-0.1	SE258534.006	%	60 - 130%	92
	BH7 0.0-0.1	SE258534.007	%	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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	BH8 0.0-0.1	SE258534.008	%	60 - 130%	78
	BH9 0.0-0.1	SE258534.009	%	60 - 130%	76
	BH10 0.0-0.1	SE258534.010	%	60 - 130%	87
	BH11 0.0-0.1	SE258534.011	%	60 - 130%	98
	BH12 0.0-0.1	SE258534.012	%	60 - 130%	90
	BH13 0.0-0.1	SE258534.013	%	60 - 130%	81
	BH14 0.0-0.1	SE258534.014	%	60 - 130%	80
	BH15 0.0-0.1	SE258534.015	%	60 - 130%	81
	BH16 0.0-0.1	SE258534.016	%	60 - 130%	71
	BH17 0.0-0.1	SE258534.017	%	60 - 130%	87
	BH18 0.0-0.1	SE258534.018	%	60 - 130%	82
	BH19 0.0-0.1	SE258534.019	%	60 - 130%	98
	BH20 0.0-0.1	SE258534.020	%	60 - 130%	87
	BH21 0.0-0.1	SE258534.021	%	60 - 130%	85
	BH22 0.0-0.1	SE258534.022	%	60 - 130%	89
	BH23 0.0-0.1	SE258534.023	%	60 - 130%	77
	BH24 0.0-0.1	SE258534.024	%	60 - 130%	87
	BH25 0.0-0.1	SE258534.025	%	60 - 130%	87
	BH26 0.0-0.1	SE258534.026	%	60 - 130%	73
	BH27 0.0-0.1	SE258534.027	%	60 - 130%	78
	BH28 0.0-0.1	SE258534.028	%	60 - 130%	80
	BH29 0.0-0.1	SE258534.029	%	60 - 130%	74
	BH30 0.0-0.1	SE258534.030	%	60 - 130%	76
	BH31 0.0-0.1	SE258534.031	%	60 - 130%	79
	BH32 0.0-0.1	SE258534.032	%	60 - 130%	78
	BH33 0.0-0.1	SE258534.033	%	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.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Number	Parameter	Units	LOR	Result
LB301571.001	Exchangeable Sodium, Na	mg/kg	2	0.4024
	Exchangeable Potassium, K	mg/kg	2	-0.1364
	Exchangeable Calcium, Ca	mg/kg	2	0.5074
	Exchangeable Magnesium, Mg	mg/kg	2	0.1305

Mercury in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB300386.001	Mercury	mg/kg	0.05	<0.05
LB300387.001	Mercury	mg/kg	0.05	<0.05
LB300422.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB300366.001		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
		Isodrin	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
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		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)	%	-	109
LB300367.001		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
		Isodrin	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
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		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)	%	-	117
LB300391.001		Alpha BHC	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.

OC Pesticides in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB300391.001		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
		Isodrin	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
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		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)	%	-	99

OP Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB300366.001		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)	%	-	91
		d14-p-terphenyl (Surrogate)	%	-	93
LB300367.001		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)	%	-	105
		d14-p-terphenyl (Surrogate)	%	-	104
LB300391.001		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

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 (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB300391.001		Methidathion	mg/kg	0.5	<0.5
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	106
		d14-p-terphenyl (Surrogate)	%	-	110

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB300366.001		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)	%	-	99
		2-fluorobiphenyl (Surrogate)	%	-	91
		d14-p-terphenyl (Surrogate)	%	-	93
LB300367.001		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)	%	-	112
		2-fluorobiphenyl (Surrogate)	%	-	105
		d14-p-terphenyl (Surrogate)	%	-	104
LB300391.001		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

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
LB300391.001		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)	%	-	106
		2-fluorobiphenyl (Surrogate)	%	-	106
		d14-p-terphenyl (Surrogate)	%	-	110

PCBs in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB300366.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	109
LB300367.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	114
LB300391.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	99

Speciated Phenols in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB300310.001		Phenol	mg/kg	0.5	<0.5
		2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1
		2-chlorophenol	mg/kg	0.5	<0.5
		2,4-dimethylphenol	mg/kg	0.5	<0.5
		2,6-dichlorophenol	mg/kg	0.5	<0.5
		2,4-dichlorophenol	mg/kg	0.5	<0.5
		4-chloro-3-methylphenol	mg/kg	2	<2
		2,4,6-trichlorophenol	mg/kg	0.5	<0.5
		2-nitrophenol	mg/kg	0.5	<0.5
		4-nitrophenol	mg/kg	1	<1
		2,4,5-trichlorophenol	mg/kg	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1
		Pentachlorophenol	mg/kg	0.5	<0.5
		2,4-dinitrophenol	mg/kg	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	98
		d5-phenol (Surrogate)	%	-	96

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.

Speciated Phenols in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB300311.001		Phenol	mg/kg	0.5	<0.5
		2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1
		2-chlorophenol	mg/kg	0.5	<0.5
		2,4-dimethylphenol	mg/kg	0.5	<0.5
		2,6-dichlorophenol	mg/kg	0.5	<0.5
		2,4-dichlorophenol	mg/kg	0.5	<0.5
		4-chloro-3-methylphenol	mg/kg	2	<2
		2,4,6-trichlorophenol	mg/kg	0.5	<0.5
		2-nitrophenol	mg/kg	0.5	<0.5
		4-nitrophenol	mg/kg	1	<1
		2,4,5-trichlorophenol	mg/kg	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1
		Pentachlorophenol	mg/kg	0.5	<0.5
		2,4-dinitrophenol	mg/kg	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	99
		d5-phenol (Surrogate)	%	-	91
LB300312.001		Phenol	mg/kg	0.5	<0.5
		2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1
		2-chlorophenol	mg/kg	0.5	<0.5
		2,4-dimethylphenol	mg/kg	0.5	<0.5
		2,6-dichlorophenol	mg/kg	0.5	<0.5
		2,4-dichlorophenol	mg/kg	0.5	<0.5
		4-chloro-3-methylphenol	mg/kg	2	<2
		2,4,6-trichlorophenol	mg/kg	0.5	<0.5
		2-nitrophenol	mg/kg	0.5	<0.5
		4-nitrophenol	mg/kg	1	<1
		2,4,5-trichlorophenol	mg/kg	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1
		Pentachlorophenol	mg/kg	0.5	<0.5
		2,4-dinitrophenol	mg/kg	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	105
		d5-phenol (Surrogate)	%	-	100

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

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

Sample Number	Parameter	Units	LOR	Result
LB300381.001	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
LB300382.001	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
LB300421.001	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

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.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB300366.001	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
LB300367.001	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
LB300391.001	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
LB300371.001	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
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	119
		d8-toluene (Surrogate)	%	-	103
		Bromofluorobenzene (Surrogate)	%	-	86
	Totals	Total BTEX*	mg/kg	0.6	<0.6
LB300372.001	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
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
		d8-toluene (Surrogate)	%	-	96
		Bromofluorobenzene (Surrogate)	%	-	88
	Totals	Total BTEX*	mg/kg	0.6	<0.6
LB300420.001	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
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	93
		d8-toluene (Surrogate)	%	-	99
		Bromofluorobenzene (Surrogate)	%	-	91
	Totals	Total BTEX*	mg/kg	0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB300371.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	119
LB300372.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
LB300420.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	93

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258491.075	LB300422.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE258534.006	LB300422.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE258534.016	LB300386.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE258534.025	LB300386.024	Mercury	mg/kg	0.05	<0.05	<0.05	159	0
SE258536.002	LB300387.014	Mercury	mg/kg	0.05	<0.05	<0.05	152	0
SE258536.011	LB300387.024	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 %
SE258491.075	LB300423.011	% Moisture	%w/w	1	12.9	12.8	38	1
SE258534.006	LB300423.021	% Moisture	%w/w	1	21.5	21.0	35	2
SE258534.016	LB300376.011	% Moisture	%w/w	1	32.6	34.0	33	4
SE258534.025	LB300376.021	% Moisture	%w/w	1	32.1	32.2	33	0
SE258536.002	LB300377.011	% Moisture	%w/w	1	24.4	27.6	34	12
SE258536.011	LB300377.021	% Moisture	%w/w	1	29.5	29.3	33	1

OC Pesticides in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258534.006	LB300391.024		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	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	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.16	30	1
SE258534.016	LB300366.014		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258534.016	LB300366.014		Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.18	0.18	30	2
SE258534.025	LB300366.024		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	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	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.18	30	1
SE258536.002	LB300367.014		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	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	0.2	<0.2	<0.2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300367.014		Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.19	0.19	30	3
SE258536.011	LB300367.024		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	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	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.17	30	7

OP Pesticides in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258534.006	LB300391.024		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OP Pesticides in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258534.006	LB300391.024	Surrogates	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
SE258534.016	LB300366.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE258534.025	LB300366.024		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE258536.002	LB300367.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE258536.011	LB300367.024		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4

PAH (Polynuclear Aromatic Hydrocarbons) in Soil — Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258491.075	LB300391.014		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	-	0.5	0.5	30	1
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE258534.006	LB300391.024		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	0.5	30	5
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
SE258534.016	LB300366.014		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258534.016	LB300366.014		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	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE258534.025	LB300366.024		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	-	0.6	0.5	30	1
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE258536.002	LB300367.014		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300367.014	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.6	30	3
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE258536.011	LB300367.024		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	-	0.6	0.6	30	5
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4

PCBs in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258534.006	LB300391.024		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	0
SE258534.016	LB300366.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	3
SE258534.025	LB300366.024		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PCBs in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258534.025	LB300366.024		Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	5
SE258536.002	LB300367.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	1
SE258536.011	LB300367.024		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	7

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258534.020	LB301177.011	pH	pH Units	0.1	5.4	5.9	32	9
SE258605.001	LB300526.007	pH	pH Units	0.1	9.2	9.2	31	0

Speciated Phenols in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258491.075	LB300310.014		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	140	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	1.1	0.9	30	15
			d5-phenol (Surrogate)	mg/kg	-	0.7	0.8	30	10
SE258534.006	LB300310.024		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Speciated Phenols in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258534.006	LB300310.024		2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.3	4.3	30	1
			d5-phenol (Surrogate)	mg/kg	-	2.0	1.9	30	3
SE258534.016	LB300311.014		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.8	5.0	30	4
			d5-phenol (Surrogate)	mg/kg	-	1.9	1.9	30	3
SE258534.025	LB300311.024		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.0	5.3	30	4
			d5-phenol (Surrogate)	mg/kg	-	1.9	2.0	30	4
SE258536.002	LB300312.014		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Speciated Phenols in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300312.014	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.0	5.0	30	0
			d5-phenol (Surrogate)	mg/kg	-	1.9	1.9	30	3

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 %
SE258491.075	LB300421.014		Arsenic, As	mg/kg	1	6	7	45	8
			Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
			Chromium, Cr	mg/kg	0.5	27	25	32	8
			Copper, Cu	mg/kg	0.5	30	29	32	5
			Nickel, Ni	mg/kg	0.5	19	18	33	5
			Lead, Pb	mg/kg	1	21	23	35	9
			Zinc, Zn	mg/kg	2	43	43	35	0
SE258534.006	LB300421.024		Arsenic, As	mg/kg	1	5	5	49	1
			Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
			Chromium, Cr	mg/kg	0.5	11	11	35	4
			Copper, Cu	mg/kg	0.5	39	36	31	9
			Nickel, Ni	mg/kg	0.5	7.0	8.4	37	18
			Lead, Pb	mg/kg	1	11	11	39	1
			Zinc, Zn	mg/kg	2	28	33	37	14
SE258534.016	LB300381.014		Arsenic, As	mg/kg	1	5	5	50	13
			Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
			Chromium, Cr	mg/kg	0.5	4.0	4.0	42	1
			Copper, Cu	mg/kg	0.5	31	34	32	9
			Nickel, Ni	mg/kg	0.5	4.3	4.1	42	4
			Lead, Pb	mg/kg	1	7	6	45	4
			Zinc, Zn	mg/kg	2	34	35	36	2
SE258534.025	LB300381.024		Arsenic, As	mg/kg	1	3	3	67	2
			Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
			Chromium, Cr	mg/kg	0.5	45	50	31	9
			Copper, Cu	mg/kg	0.5	21	23	32	10
			Nickel, Ni	mg/kg	0.5	43	47	31	11
			Lead, Pb	mg/kg	1	5	5	50	4
			Zinc, Zn	mg/kg	2	150	150	31	4
SE258536.002	LB300382.014		Arsenic, As	mg/kg	1	2	3	66	20
			Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
			Chromium, Cr	mg/kg	0.5	37	35	31	7
			Copper, Cu	mg/kg	0.5	25	24	32	4
			Nickel, Ni	mg/kg	0.5	21	20	32	6
			Lead, Pb	mg/kg	1	8	8	42	3
			Zinc, Zn	mg/kg	2	38	39	35	2
SE258536.011	LB300382.024		Arsenic, As	mg/kg	1	4	4	53	3
			Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
			Chromium, Cr	mg/kg	0.5	17	17	33	4
			Copper, Cu	mg/kg	0.5	22	22	32	1
			Nickel, Ni	mg/kg	0.5	4.9	4.8	40	3
			Lead, Pb	mg/kg	1	8	8	42	1
			Zinc, Zn	mg/kg	2	15	15	43	2

TRH (Total Recoverable Hydrocarbons) in Soil — Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258491.075	LB300391.014		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
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE258534.006	LB300391.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	46	<45	139	1

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258534.006	LB300391.024		TRH C29-C36	mg/kg	45	53	52	115	2
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	175	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	144	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE258534.016	LB300366.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	86	87	82	1
			TRH C29-C36	mg/kg	45	98	92	77	6
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	180	180	91	3
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	168	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	150	150	89	2
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE258534.025	LB300366.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	63	62	102	1
			TRH C29-C36	mg/kg	45	73	72	92	2
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	140	130	112	1
			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	110	110	2
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE258536.002	LB300367.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	46	134	3
			TRH C29-C36	mg/kg	45	47	<45	130	5
			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	138	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE258536.011	LB300367.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	84	110	77	23
			TRH C29-C36	mg/kg	45	100	110	71	8
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	190	220	84	15
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	141	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	170	200	78	16
			TRH >C34-C40 (F4)	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 %
SE258491.075	LB300420.014	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			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	-	8.6	9.2	50	7
			d8-toluene (Surrogate)	mg/kg	-	8.6	9.6	50	11
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	8.6	50	12
		Totals	Total BTEX*	mg/kg	0.6	<0.3	<0.3	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258491.075	LB300420.014	Totals	Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE258534.006	LB300420.024	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	-	9.2	8.7	50	6
			d8-toluene (Surrogate)	mg/kg	-	9.2	8.9	50	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.9	7.9	50	0
		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
SE258534.016	LB300371.014	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	-	7.6	8.6	50	13
			d8-toluene (Surrogate)	mg/kg	-	7.1	7.7	50	8
			Bromofluorobenzene (Surrogate)	mg/kg	-	6.6	6.9	50	4
		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
SE258534.020	LB300371.026	Monocyclic	Benzene	mg/kg	0.1	<0.1	0	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	0.0028814098	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	0.0005909784	200	0
			m/p-xylene	mg/kg	0.2	<0.2	0.0011280397	200	0
			o-xylene	mg/kg	0.1	<0.1	0.0005030068	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	0	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.6	9.0048640112	50	17
			d8-toluene (Surrogate)	mg/kg	-	8.7	7.7849507385	50	11
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.0737534886	50	5
		Totals	Total BTEX*	mg/kg	0.6	<0.6	0	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	0.0016310466	200	0
SE258534.025	LB300371.024	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	-	10.0	10.3	50	3
			d8-toluene (Surrogate)	mg/kg	-	8.7	8.8	50	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.6	50	3
		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
SE258536.002	LB300372.014	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	-	8.2	7.9	50	4
			d8-toluene (Surrogate)	mg/kg	-	8.1	7.6	50	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.6	50	3
		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
SE258536.011	LB300372.024	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.011	LB300372.024	Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.5	9.1	50	19
			d8-toluene (Surrogate)	mg/kg	-	7.3	8.9	50	21
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.0	8.0	50	13
		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

Volatile Petroleum Hydrocarbons in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258491.075	LB300420.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	9.2	50	7
			d8-toluene (Surrogate)	mg/kg	-	8.6	9.6	50	11
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	8.6	50	12
		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
SE258534.006	LB300420.024		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	-	9.2	8.7	50	6
			d8-toluene (Surrogate)	mg/kg	-	9.2	8.9	50	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.9	7.9	50	0
		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
SE258534.016	LB300371.014		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	-	7.6	8.6	50	13
			d8-toluene (Surrogate)	mg/kg	-	7.1	7.7	50	8
			Bromofluorobenzene (Surrogate)	mg/kg	-	6.6	6.9	50	4
		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
SE258534.020	LB300371.026		TRH C6-C10	mg/kg	25	<25	0.0081073675	200	0
			TRH C6-C9	mg/kg	20	<20	0.0088423086	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.6	9.0048640112	50	17
			d8-toluene (Surrogate)	mg/kg	-	8.7	7.7849507385	50	11
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.0737534886	50	5
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	0	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	0.0081073675	200	0
SE258534.025	LB300371.024		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	-	10.0	10.3	50	3
			d8-toluene (Surrogate)	mg/kg	-	8.7	8.8	50	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.6	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
SE258536.002	LB300372.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.2	7.9	50	4
			d8-toluene (Surrogate)	mg/kg	-	8.1	7.6	50	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.6	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
SE258536.011	LB300372.024		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	-	7.5	9.1	50	19
			d8-toluene (Surrogate)	mg/kg	-	7.3	8.9	50	21
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.0	8.0	50	13
		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.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB301571.002	Exchangeable Sodium, Na	meq/100g	0.01	0.23	0.194	80 - 120	120
	Exchangeable Potassium, K	meq/100g	0.01	0.70	0.63	80 - 120	112
	Exchangeable Calcium, Ca	meq/100g	0.01	6.7	6.3	80 - 120	106
	Exchangeable Magnesium, Mg	meq/100g	0.02	1.0	1.11	80 - 120	94

Mercury in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300386.002	Mercury	mg/kg	0.05	0.22	0.2	80 - 120	108
LB300387.002	Mercury	mg/kg	0.05	0.20	0.2	80 - 120	102
LB300422.002	Mercury	mg/kg	0.05	0.17	0.2	80 - 120	84

OC Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300366.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	107
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	114
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	112
		Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	110
		Endrin	mg/kg	0.2	0.2	0.2	60 - 140	106
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	98
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.15	40 - 130	114
LB300367.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	111
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	118
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	117
		Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	114
		Endrin	mg/kg	0.2	0.2	0.2	60 - 140	110
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	92
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.15	40 - 130	115
LB300391.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	82
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	82
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	82
		Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	89
		Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	83
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	82
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.15	40 - 130	92

OP Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300366.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.9	2	60 - 140	96
		Diazinon (Dimpylate)	mg/kg	0.5	2.0	2	60 - 140	102
		Dichlorvos	mg/kg	0.5	1.5	2	60 - 140	77
		Ethion	mg/kg	0.2	2.0	2	60 - 140	100
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	98
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	106
LB300367.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.0	2	60 - 140	100
		Diazinon (Dimpylate)	mg/kg	0.5	2.1	2	60 - 140	104
		Dichlorvos	mg/kg	0.5	1.4	2	60 - 140	72
		Ethion	mg/kg	0.2	2.1	2	60 - 140	106
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
LB300391.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.7	2	60 - 140	85
		Diazinon (Dimpylate)	mg/kg	0.5	1.7	2	60 - 140	85
		Dichlorvos	mg/kg	0.5	1.6	2	60 - 140	78
		Ethion	mg/kg	0.2	1.5	2	60 - 140	75
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	106
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	99

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300366.002	Naphthalene	mg/kg	0.1	3.7	4	60 - 140	93
	Acenaphthylene	mg/kg	0.1	3.9	4	60 - 140	98
	Acenaphthene	mg/kg	0.1	4.1	4	60 - 140	102
	Phenanthrene	mg/kg	0.1	3.8	4	60 - 140	95
	Anthracene	mg/kg	0.1	3.9	4	60 - 140	98

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 Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300366.002		Fluoranthene	mg/kg	0.1	3.8	4	60 - 140	95
		Pyrene	mg/kg	0.1	4.2	4	60 - 140	104
		Benzo(a)pyrene	mg/kg	0.1	3.8	4	60 - 140	96
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	99
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	98
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	106
LB300367.002		Naphthalene	mg/kg	0.1	3.9	4	60 - 140	98
		Acenaphthylene	mg/kg	0.1	4.1	4	60 - 140	101
		Acenaphthene	mg/kg	0.1	4.2	4	60 - 140	105
		Phenanthrene	mg/kg	0.1	4.0	4	60 - 140	100
		Anthracene	mg/kg	0.1	4.1	4	60 - 140	104
		Fluoranthene	mg/kg	0.1	3.9	4	60 - 140	98
		Pyrene	mg/kg	0.1	4.3	4	60 - 140	108
		Benzo(a)pyrene	mg/kg	0.1	4.0	4	60 - 140	100
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	110
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
LB300391.002		Naphthalene	mg/kg	0.1	4.1	4	60 - 140	101
		Acenaphthylene	mg/kg	0.1	3.9	4	60 - 140	98
		Acenaphthene	mg/kg	0.1	4.2	4	60 - 140	104
		Phenanthrene	mg/kg	0.1	4.1	4	60 - 140	102
		Anthracene	mg/kg	0.1	4.0	4	60 - 140	100
		Fluoranthene	mg/kg	0.1	3.9	4	60 - 140	97
		Pyrene	mg/kg	0.1	4.1	4	60 - 140	102
		Benzo(a)pyrene	mg/kg	0.1	4.0	4	60 - 140	100
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	99
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	106
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	99

PCBs in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300366.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	98
LB300367.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	99
LB300391.002	Arochlor 1260	mg/kg	0.2	0.3	0.4	60 - 140	84

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300526.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100
LB301177.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100

Speciated Phenols in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300310.002		Phenol	mg/kg	0.5	0.9	1	70 - 130	92
		2,4-dichlorophenol	mg/kg	0.5	0.9	1	70 - 130	90
		2,4,6-trichlorophenol	mg/kg	0.5	0.9	1	70 - 130	94
		Pentachlorophenol	mg/kg	0.5	0.7	1	70 - 130	70
	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.4	5	40 - 130	109
		d5-phenol (Surrogate)	mg/kg	-	2.0	2	40 - 130	101
LB300311.002		Phenol	mg/kg	0.5	1.0	1	70 - 130	98
		2,4-dichlorophenol	mg/kg	0.5	0.9	1	70 - 130	92
		2,4,6-trichlorophenol	mg/kg	0.5	0.9	1	70 - 130	92
		Pentachlorophenol	mg/kg	0.5	0.8	1	70 - 130	80
	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.8	5	40 - 130	116
		d5-phenol (Surrogate)	mg/kg	-	2.2	2	40 - 130	109
LB300312.002		Phenol	mg/kg	0.5	1.0	1	70 - 130	96
		2,4-dichlorophenol	mg/kg	0.5	0.9	1	70 - 130	86
		2,4,6-trichlorophenol	mg/kg	0.5	0.9	1	70 - 130	88
		Pentachlorophenol	mg/kg	0.5	0.7	1	70 - 130	72
	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.7	5	40 - 130	114
		d5-phenol (Surrogate)	mg/kg	-	2.2	2	40 - 130	109

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.

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 %
LB300381.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	108
	Cadmium, Cd	mg/kg	0.3	6.2	4.81	70 - 130	128
	Chromium, Cr	mg/kg	0.5	41	38.31	80 - 120	106
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	107
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	101
	Lead, Pb	mg/kg	1	90	89.9	80 - 120	100
	Zinc, Zn	mg/kg	2	280	273	80 - 120	101
LB300382.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	107
	Cadmium, Cd	mg/kg	0.3	4.3	4.81	70 - 130	89
	Chromium, Cr	mg/kg	0.5	41	38.31	80 - 120	106
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	108
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	103
	Lead, Pb	mg/kg	1	91	89.9	80 - 120	101
	Zinc, Zn	mg/kg	2	280	273	80 - 120	103
LB300421.002	Arsenic, As	mg/kg	1	360	318.22	80 - 120	113
	Cadmium, Cd	mg/kg	0.3	4.7	4.81	70 - 130	97
	Chromium, Cr	mg/kg	0.5	44	38.31	80 - 120	115
	Copper, Cu	mg/kg	0.5	340	290	80 - 120	116
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	106
	Lead, Pb	mg/kg	1	98	89.9	80 - 120	109
	Zinc, Zn	mg/kg	2	300	273	80 - 120	111

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300366.002		TRH C10-C14	mg/kg	20	47	40	60 - 140	116
		TRH C15-C28	mg/kg	45	46	40	60 - 140	114
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	98
	TRH F Bands	TRH >C10-C16	mg/kg	25	47	40	60 - 140	118
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	105
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	102
LB300367.002		TRH C10-C14	mg/kg	20	36	40	60 - 140	90
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	83
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	63
	TRH F Bands	TRH >C10-C16	mg/kg	25	37	40	60 - 140	93
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	68
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	63
LB300391.002		TRH C10-C14	mg/kg	20	41	40	60 - 140	102
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	98
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	90
	TRH F Bands	TRH >C10-C16	mg/kg	25	41	40	60 - 140	103
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	90
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	98

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300371.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.2	5	60 - 140	84
		Toluene	mg/kg	0.1	4.5	5	60 - 140	90
		Ethylbenzene	mg/kg	0.1	4.7	5	60 - 140	94
		m/p-xylene	mg/kg	0.2	10	10	60 - 140	101
		o-xylene	mg/kg	0.1	5.1	5	60 - 140	102
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.9	10	70 - 130	89
		d8-toluene (Surrogate)	mg/kg	-	8.4	10	70 - 130	84
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.8	10	70 - 130	108
LB300372.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.0	5	60 - 140	79
		Toluene	mg/kg	0.1	4.2	5	60 - 140	84
		Ethylbenzene	mg/kg	0.1	4.3	5	60 - 140	85
		m/p-xylene	mg/kg	0.2	8.6	10	60 - 140	86
		o-xylene	mg/kg	0.1	4.4	5	60 - 140	87
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.4	10	70 - 130	104
		d8-toluene (Surrogate)	mg/kg	-	10.5	10	70 - 130	105
		Bromofluorobenzene (Surrogate)	mg/kg	-	11.0	10	70 - 130	110
LB300420.002	Monocyclic	Benzene	mg/kg	0.1	4.4	5	60 - 140	89

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 %
LB300420.002	Monocyclic	Toluene	mg/kg	0.1	4.5	5	60 - 140	90
	Aromatic	Ethylbenzene	mg/kg	0.1	4.5	5	60 - 140	90
		m/p-xylene	mg/kg	0.2	9.0	10	60 - 140	90
		o-xylene	mg/kg	0.1	4.6	5	60 - 140	91
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.4	10	70 - 130	104
		d8-toluene (Surrogate)	mg/kg	-	10.5	10	70 - 130	105
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.5	10	70 - 130	105

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300371.002		TRH C6-C10	mg/kg	25	75	92.5	60 - 140	81
		TRH C6-C9	mg/kg	20	65	80	60 - 140	81
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.9	10	70 - 130	89
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.8	10	70 - 130	108
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	46	62.5	60 - 140	74
LB300372.002		TRH C6-C10	mg/kg	25	82	92.5	60 - 140	88
		TRH C6-C9	mg/kg	20	73	80	60 - 140	91
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.4	10	70 - 130	104
		Bromofluorobenzene (Surrogate)	mg/kg	-	11.0	10	70 - 130	110
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	56	62.5	60 - 140	90
LB300420.002		TRH C6-C10	mg/kg	25	84	92.5	60 - 140	91
		TRH C6-C9	mg/kg	20	73	80	60 - 140	91
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.4	10	70 - 130	104
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.5	10	70 - 130	105
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	57	62.5	60 - 140	91

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258491.066	LB300422.004	Mercury	mg/kg	0.05	0.20	<0.05	0.2	94
SE258534.007	LB300386.004	Mercury	mg/kg	0.05	0.24	<0.05	0.2	107
SE258534.026	LB300387.004	Mercury	mg/kg	0.05	0.26	0.05	0.2	102

OC Pesticides in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.007	LB300366.004		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	106
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	118
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	116
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	0.2	<0.2	0.2	110
			Endrin	mg/kg	0.2	0.2	<0.2	0.2	106
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDD*	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	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	98
			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	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
			Total OC VIC EPA	mg/kg	1	1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.18	0.18	-	118
SE258534.026	LB300367.004		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	122
			Heptachlor	mg/kg	0.1	0.3	<0.1	0.2	136
			Aldrin	mg/kg	0.1	0.3	<0.1	0.2	132
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	0.3	<0.2	0.2	126
			Endrin	mg/kg	0.2	0.2	<0.2	0.2	124
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDD*	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	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	118
			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 identifer 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%
SE258534.026	LB300367.004		Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	2	<1	-	-
			Total OC VIC EPA	mg/kg	1	2	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.19	0.19	-	127

OP Pesticides in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.007	LB300366.004		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	95
			Diazinon (Dimpylate)	mg/kg	0.5	2.0	<0.5	2	98
			Dichlorvos	mg/kg	0.5	1.7	<0.5	2	83
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	2.0	<0.2	2	102
			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	7.6	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	99
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	95
SE258534.026	LB300367.004		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	2.1	<0.2	2	106
			Diazinon (Dimpylate)	mg/kg	0.5	2.2	<0.5	2	107
			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	2.4	<0.2	2	119
			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	8.5	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.6	0.6	-	113
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	106

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258491.066	LB300391.004		Naphthalene	mg/kg	0.1	4.0	<0.1	4	101
			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	98
			Acenaphthene	mg/kg	0.1	4.2	<0.1	4	104
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.1	<0.1	4	102
			Anthracene	mg/kg	0.1	4.0	<0.1	4	100
			Fluoranthene	mg/kg	0.1	3.9	<0.1	4	98
			Pyrene	mg/kg	0.1	4.0	<0.1	4	100
			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	4.0	<0.1	4	100
			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	4.0	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	4.1	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	4.1	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	32	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	102

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258491.066	LB300391.004	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	107
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	99
SE258534.007	LB300366.004		Naphthalene	mg/kg	0.1	3.5	<0.1	4	89
			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	3.6	<0.1	4	90
			Acenaphthene	mg/kg	0.1	3.8	<0.1	4	94
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	3.6	<0.1	4	91
			Anthracene	mg/kg	0.1	3.5	<0.1	4	87
			Fluoranthene	mg/kg	0.1	3.5	<0.1	4	87
			Pyrene	mg/kg	0.1	3.6	<0.1	4	90
			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	3.3	<0.1	4	83
			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	3.3	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	3.4	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	3.5	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	28	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	104
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	99
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	95
SE258534.026	LB300367.004		Naphthalene	mg/kg	0.1	4.0	<0.1	4	101
			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	4.1	<0.1	4	102
			Acenaphthene	mg/kg	0.1	4.2	<0.1	4	105
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.0	<0.1	4	101
			Anthracene	mg/kg	0.1	4.0	<0.1	4	99
			Fluoranthene	mg/kg	0.1	3.8	<0.1	4	96
			Pyrene	mg/kg	0.1	4.2	<0.1	4	105
			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	3.7	<0.1	4	93
			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	3.7	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	3.8	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	3.9	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	32	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.6	-	117
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.6	0.6	-	113
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	106

PCBs in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.007	LB300366.004	Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
		Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.007	LB300366.004		Arochlor 1260	mg/kg	0.2	0.4	<0.2	0.4	94
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	-	120
SE258534.026	LB300367.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.4	<0.2	0.4	106
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	-	126

Speciated Phenols in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258491.066	LB300310.004		Phenol	mg/kg	0.5	0.9	<0.5	1	92
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	-	-
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	-	-
			Total Cresol	mg/kg	1.5	<1.5	<1.5	-	-
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dichlorophenol	mg/kg	0.5	0.9	<0.5	1	88
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	-	-
			2,4,6-trichlorophenol	mg/kg	0.5	0.9	<0.5	1	94
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	-	-
			4-nitrophenol	mg/kg	1	<1	<1	-	-
			2,4,5-trichlorophenol	mg/kg	0.5	0.8	<0.5	-	-
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	-	-
			Pentachlorophenol	mg/kg	0.5	0.8	<0.5	1	82
			2,4-dinitrophenol	mg/kg	2	<2	<2	-	-
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.4	5.1	-	107
			d5-phenol (Surrogate)	mg/kg	-	2.0	1.9	-	99
SE258534.007	LB300311.004		Phenol	mg/kg	0.5	1.0	<0.5	1	96
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	-	-
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	-	-
			Total Cresol	mg/kg	1.5	<1.5	<1.5	-	-
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dichlorophenol	mg/kg	0.5	0.9	<0.5	1	90
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	-	-
			2,4,6-trichlorophenol	mg/kg	0.5	0.9	<0.5	1	90
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	-	-
			4-nitrophenol	mg/kg	1	<1	<1	-	-
			2,4,5-trichlorophenol	mg/kg	0.5	0.8	<0.5	-	-
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	-	-
			Pentachlorophenol	mg/kg	0.5	0.8	<0.5	1	78
			2,4-dinitrophenol	mg/kg	2	<2	<2	-	-
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.5	5.1	-	110
			d5-phenol (Surrogate)	mg/kg	-	2.1	1.9	-	105
SE258534.026	LB300312.004		Phenol	mg/kg	0.5	0.9	<0.5	1	87
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	-	-
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	-	-
			Total Cresol	mg/kg	1.5	<1.5	<1.5	-	-
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Speciated Phenols in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.026	LB300312.004		2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dichlorophenol	mg/kg	0.5	0.9	<0.5	1	90
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	-	-
			2,4,6-trichlorophenol	mg/kg	0.5	0.9	<0.5	1	94
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	-	-
			4-nitrophenol	mg/kg	1	<1	<1	-	-
			2,4,5-trichlorophenol	mg/kg	0.5	0.8	<0.5	-	-
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	-	-
			Pentachlorophenol	mg/kg	0.5	0.9	<0.5	1	92
			2,4-dinitrophenol	mg/kg	2	<2	<2	-	-
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.4	4.4	-	109
			d5-phenol (Surrogate)	mg/kg	-	2.1	1.6	-	104

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%
SE258491.066	LB300421.004	Arsenic, As	mg/kg	1	56	7	50	98
		Cadmium, Cd	mg/kg	0.3	41	<0.3	50	83
		Chromium, Cr	mg/kg	0.5	77	39	50	77
		Copper, Cu	mg/kg	0.5	60	9.6	50	100
		Nickel, Ni	mg/kg	0.5	55	7.7	50	95
		Lead, Pb	mg/kg	1	61	17	50	87
		Zinc, Zn	mg/kg	2	64	16	50	95
SE258534.007	LB300381.004	Arsenic, As	mg/kg	1	56	11	50	91
		Cadmium, Cd	mg/kg	0.3	43	<0.3	50	86
		Chromium, Cr	mg/kg	0.5	55	7.6	50	94
		Copper, Cu	mg/kg	0.5	89	58	50	60 ④
		Nickel, Ni	mg/kg	0.5	54	8.8	50	90
		Lead, Pb	mg/kg	1	52	9	50	87
		Zinc, Zn	mg/kg	2	110	88	50	41 ④
SE258534.026	LB300382.004	Arsenic, As	mg/kg	1	51	3	50	95
		Cadmium, Cd	mg/kg	0.3	46	<0.3	50	92
		Chromium, Cr	mg/kg	0.5	60	13	50	93
		Copper, Cu	mg/kg	0.5	62	17	50	91
		Nickel, Ni	mg/kg	0.5	54	6.9	50	94
		Lead, Pb	mg/kg	1	53	8	50	89
		Zinc, Zn	mg/kg	2	62	17	50	91

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258491.066	LB300391.004		TRH C10-C14	mg/kg	20	49	<20	40	114
			TRH C15-C28	mg/kg	45	56	<45	40	116
			TRH C29-C36	mg/kg	45	49	<45	40	81
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	150	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	50	<25	40	115
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	50	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	101
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE258534.007	LB300366.004		TRH C10-C14	mg/kg	20	73	<20	40	158 ④
			TRH C15-C28	mg/kg	45	200	120	40	188 ④
			TRH C29-C36	mg/kg	45	230	180	40	123
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	500	300	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	390	250	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	77	<25	40	162 ④
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	77	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	310	250	40	172 ④
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE258534.026	LB300367.004		TRH C10-C14	mg/kg	20	38	<20	40	94
			TRH C15-C28	mg/kg	45	<45	<45	40	102
			TRH C29-C36	mg/kg	45	<45	<45	40	101

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.026	LB300367.004		TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F	TRH >C10-C16	mg/kg	25	38	<25	40	96
		Bands	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	38	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	133
			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%
SE258491.066	LB300420.004	Monocyclic	Benzene	mg/kg	0.1	4.9	<0.1	5	98
		Aromatic	Toluene	mg/kg	0.1	5.0	<0.1	5	100
			Ethylbenzene	mg/kg	0.1	5.0	<0.1	5	99
			m/p-xylene	mg/kg	0.2	9.9	<0.2	10	99
			o-xylene	mg/kg	0.1	5.0	<0.1	5	101
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.5	8.7	10	85
			d8-toluene (Surrogate)	mg/kg	-	8.3	9.0	10	83
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.3	8.7	10	93
		Totals	Total BTEX*	mg/kg	0.6	30	<0.3	-	-
			Total Xylenes*	mg/kg	0.3	15	<0.3	-	-
SE258534.007	LB300371.004	Monocyclic	Benzene	mg/kg	0.1	5.6	<0.1	5	113
		Aromatic	Toluene	mg/kg	0.1	5.6	<0.1	5	112
			Ethylbenzene	mg/kg	0.1	5.9	<0.1	5	118
			m/p-xylene	mg/kg	0.2	13	<0.2	10	127
			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	-	7.4	8.4	10	74
			d8-toluene (Surrogate)	mg/kg	-	6.9	7.9	10	69 ①
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.0	7.6	10	90
		Totals	Total BTEX*	mg/kg	0.6	36	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	19	<0.3	-	-
SE258534.026	LB300372.004	Monocyclic	Benzene	mg/kg	0.1	4.6	<0.1	5	91
		Aromatic	Toluene	mg/kg	0.1	4.9	<0.1	5	97
			Ethylbenzene	mg/kg	0.1	5.0	<0.1	5	100
			m/p-xylene	mg/kg	0.2	10	<0.2	10	104
			o-xylene	mg/kg	0.1	5.4	<0.1	5	108
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.5	7.8	10	75
			d8-toluene (Surrogate)	mg/kg	-	7.2	7.3	10	72
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.7	7.1	10	87
		Totals	Total BTEX*	mg/kg	0.6	30	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	16	<0.3	-	-

Volatile Petroleum Hydrocarbons in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258491.066	LB300420.004		TRH C6-C10	mg/kg	25	94	<25	92.5	101
			TRH C6-C9	mg/kg	20	81	<20	80	101
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.5	8.7	10	85
			d8-toluene (Surrogate)	mg/kg	-	8.3	9.0	10	83
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.3	8.7	-	93
		VPH F	Benzene (F0)	mg/kg	0.1	4.9	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	64	<25	62.5	102
SE258534.007	LB300371.004		TRH C6-C10	mg/kg	25	95	<25	92.5	102
			TRH C6-C9	mg/kg	20	82	<20	80	102
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.4	8.4	10	74
			d8-toluene (Surrogate)	mg/kg	-	6.9	7.9	10	69 ①
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.0	7.6	-	90
		VPH F	Benzene (F0)	mg/kg	0.1	5.6	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	59	<25	62.5	93
SE258534.026	LB300372.004		TRH C6-C10	mg/kg	25	100	<25	92.5	108
			TRH C6-C9	mg/kg	20	88	<20	80	109

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.026	LB300372.004	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.5	7.8	10	75
			d8-toluene (Surrogate)	mg/kg	-	7.2	7.3	10	72
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.7	7.1	-	87
		VPH F	Benzene (F0)	mg/kg	0.1	4.6	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	70	<25	62.5	111

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.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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ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Admin	Manager	Anthony Nilsson
Client	SGS I&E SYDNEY	Laboratory	SGS Cairns Environmental
Address	5058 201 I&E HSE SYDNEY (EX 5258) UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015	Address	Unit 2, 58 Comport St Portsmith QLD 4870
Telephone	0285940400	Telephone	+61 07 4035 5111
Facsimile	0285940499	Facsimile	+61 07 4035 5122
Email	au.environmental.sydney@sgs.com	Email	AU.Environmental.Cairns@sgs.com
Project	**P23158**	SGS Reference	**CE171921 R0**
Order Number	**SE258534**	Date Received	22 Dec 2023
Samples	4	Date Reported	04 Jan 2024

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(3146)

SIGNATORIES

Anthony NILSSON
Operations Manager

Jon DICKER
Manager Northern QLD

Parameter	Units	LOR	Sample Number: CE171921.001 Sample Matrix: Soil Sample Date: 11 Dec 2023 Sample Name: SE258534.001
Moisture Content Method: AN002 Tested: 22/12/2023			
% Moisture	%w/w	1	**30**
Particle sizing of soils by sieving Method: AN005 Tested: 3/1/2024			
Passing 75µm	%w/w	1	**38**
Retained 75µm	%w/w	1	**62**
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 4/1/2024			
Clay (<0.002mm)	%w/w	0.1	**6.0**

Parameter	Units	LOR	Sample Number: CE171921.011 Sample Matrix: Soil Sample Date: 12 Dec 2023 Sample Name: SE258534.011
Moisture Content Method: AN002 Tested: 22/12/2023			
% Moisture	%w/w	1	<1.0
Particle sizing of soils by sieving Method: AN005 Tested: 3/1/2024			
Passing 75µm	%w/w	1	**27**
Retained 75µm	%w/w	1	**73**
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 4/1/2024			
Clay (<0.002mm)	%w/w	0.1	**6.0**

Parameter	Units	LOR	Sample Number: CE171921.020 Sample Matrix: Soil Sample Date: 12 Dec 2023 Sample Name: SE258534.020
Moisture Content Method: AN002 Tested: 22/12/2023			
% Moisture	%w/w	1	**32**
Particle sizing of soils by sieving Method: AN005 Tested: 3/1/2024			
Passing 75µm	%w/w	1	**70**
Retained 75µm	%w/w	1	**30**
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 4/1/2024			
Clay (<0.002mm)	%w/w	0.1	**6.0**

Parameter	Units	LOR	Sample Number: CE171921.033 Sample Matrix: Soil Sample Date: 12 Dec 2023 Sample Name: SE258534.033
Moisture Content Method: AN002 Tested: 22/12/2023			
% Moisture	%w/w	1	**18**
Particle sizing of soils by sieving Method: AN005 Tested: 3/1/2024			
Passing 75µm	%w/w	1	**49**
Retained 75µm	%w/w	1	**51**
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 4/1/2024			
Clay (<0.002mm)	%w/w	0.1	**6.0**

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

No QC samples were reported for this job.

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.
AN005	The particle size distribution of a soil is determined by wet sieving, using a maximum of 900 mL of deionised water to sieve all fractions down to 75 µm. Referenced to AS1289.3.6.1 and AS1141.11.
AN005	Following wet sieving of the sample,(particles smaller than 75 µm) a dispersing solution is added and a hydrometer is used to measure sedimentation. Soil density is determined and the percentage of each size fraction calculated. Referenced to AS1289.3.6.3.

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
		QFL	QC result is below the lower tolerance
**	Indicative data, theoretical holding time exceeded.	-	The sample was not analysed for this analyte
***	Indicates that both * and ** apply.	NVL	Not Validated

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 calcuated 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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SAMPLE RECEIPT ADVICE

CE171921

CLIENT DETAILS

Contact	Admin
Client	SGS I&E SYDNEY
Address	5058 201 I&E HSE SYDNEY (EX 5258) UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015
Telephone	0285940400
Facsimile	0285940499
Email	au.environmental.sydney@sgs.com
Project	**P23158**
Order Number	**SE258534**
Samples	4

LABORATORY DETAILS

Manager	Anthony Nilsson
Laboratory	SGS Cairns Environmental
Address	Unit 2, 58 Comport St Portsmith QLD 4870
Telephone	+61 07 4035 5111
Facsimile	+61 07 4035 5122
Email	AU.Environmental.Cairns@sgs.com
Samples Received	Fri 22/12/2023
Report Due	Mon 8/1/2024
SGS Reference	**CE171921**

SUBMISSION DETAILS

This is to confirm that 4 samples were received on Friday 22/12/2023. Results are expected to be ready by COB Monday 8/1/2024. Please quote SGS reference CE171921 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	4 x SOIL	Type of documentation received	COC
Date documentation received	22122023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.8°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	Number of eskies/boxes received	

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

Due to the high volume of samples we are currently processing through the lab, your TAT may be longer than anticipated.
If you have any concerns please contact us.

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SAMPLE RECEIPT ADVICE

CE171921

CLIENT DETAILS

Client SGS I&E SYDNEY

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Moisture Content	Particle sizing of soils <75µm by hydrometer	Particle sizing of soils by sieving
001	SE258534.001	1	1	2
011	SE258534.011	1	1	2
020	SE258534.020	1	1	2

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

CE171921

CLIENT DETAILS

Client SGS I&E SYDNEY

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Moisture Content	Particle sizing of soils <75µm by hydrometer	Particle sizing of soils by sieving
033	SE258534.033	1	1	2

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 .

source: Sydney.pdf page: 1 SGS Ref: SE258534_COC

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3											
BH1 0.0-0.1	11/12/2023	1		X		1	X	X														
BH1 0.3-0.4	11/12/2023			X		1			X													
BH2 0.0-0.1	11/12/2023	2		X		1	X															
BH2 0.2-0.3	11/12/2023			X		1			X													
BH3 0.0-0.1	11/12/2023	3		X		1	X															
BH3 0.4-0.5	11/12/2023			X		1			X													
BH4 0.0-0.1	11/12/2023	4		X		1	X															
BH4 0.1-0.2	11/12/2023			X		1			X													
BH5 0.0-0.1	11/12/2023	5		X		1	X															
BH5 0.4-0.5	11/12/2023			X		1			X													
BH6 0.0-0.1	11/12/2023	6		X		1	X															
BH6 0.2-0.3	11/12/2023			X		1			X													
BH7 0.0-0.1	11/12/2023	7		X		1	X															
BH7 0.3-0.4	11/12/2023			X		1			X													
BH8 0.0-0.1	11/12/2023	8		X		1	X															

SGS EHS Sydney COC
SE258534

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By: S. Subaray	Date/Time 20/12/23 @ 5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3											
BH8 0.4-0.5	12/12/2023			X		1			X													
BH9 0.0-0.1	12/12/2023	9		X		1	X															
BH9 0.3-0.4	12/12/2023			X		1			X													
BH10 0.0-0.1	12/12/2023	10		X		1	X															
BH10 0.3-0.4	12/12/2023			X		1			X													
BH11 0.0-0.1	12/12/2023	11		X		1	X	X														
BH11 0.2-0.3	12/12/2023			X		1			X													
BH12 0.0-0.1	12/12/2023	12		X		1	X															
BH12 0.4-0.5	12/12/2023			X		1			X													
BH13 0.0-0.1	12/12/2023	13		X		1	X															
BH13 0.2-0.3	12/12/2023			X		1			X													
BH14 0.0-0.1	12/12/2023	14		X		1	X															
BH14 0.3-0.4	12/12/2023			X		1			X													
BH15 0.0-0.1	12/12/2023	15		X		1	X															
BH15 0.2-0.3	12/12/2023			X		1			X													

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By:	Date/Time 20/12/23 @ 5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes/ No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3											
BH16 0.0-0.1	12/12/2023	16		X		1	X															
BH16 0.4-0.5	12/12/2023			X		1			X													
BH17 0.0-0.1	12/12/2023	17		X		1	X															
BH17 0.2-0.3	12/12/2023			X		1			X													
BH18 0.0-0.1	12/12/2023	18		X		1	X															
BH18 0.4-0.5	12/12/2023			X		1			X													
BH19 0.0-0.1	12/12/2023	19		X		1	X															
BH19 0.1-0.2	12/12/2023			X		1			X													
BH20 0.0-0.1	12/12/2023	20		X		1	X	X														
BH20 0.2-0.3	12/12/2023			X		1			X													
BH21 0.0-0.1	12/12/2023	21		X		1	X															
BH21 0.1-0.2	12/12/2023			X		1			X													
BH22 0.0-0.1	12/12/2023	22		X		1	X															
BH22 0.4-0.5	12/12/2023			X		1			X													
BH23 0.0-0.1	12/12/2023	23		X		1	X															

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By:	Date/Time 20/12/23 @ 5.25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD	Combination 3
BH23 0.4-0.5	12/12/2023			X		1			X	
BH24 0.0-0.1	12/12/2023	24		X		1	X			
BH24 0.2-0.3	12/12/2023			X		1			X	
BH25 0.0-0.1	12/12/2023	25		X		1	X			
BH25 0.3-0.4	12/12/2023			X		1			X	
BH26 0.0-0.1	12/12/2023	26		X		1	X			
BH26 0.2-0.3	12/12/2023			X		1			X	
BH27 0.0-0.1	12/12/2023	27		X		1	X			
BH27 0.4-0.5	12/12/2023			X		1			X	
BH28 0.0-0.1	12/12/2023	28		X		1	X			
BH28 0.1-0.2	12/12/2023			X		1			X	
BH29 0.0-0.1	12/12/2023	29		X		1	X			
BH29 0.4-0.5	12/12/2023			X		1			X	
BH30 0.0-0.1	12/12/2023	30		X		1	X			
BH30 0.4-0.5	12/12/2023			X		1			X	

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By:	Date/Time 20/12/23 @ 5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes)/ No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3											
BH31 0.0-0.1	12/12/2023	31		X		1	X															
BH31 0.4-0.5	12/12/2023			X		1			X													
BH32 0.0-0.1	12/12/2023	32		X		1	X															
BH32 0.1-0.2	12/12/2023			X		1			X													
BH33 0.0-0.1	12/12/2023	33		X		1	X	X														
BH33 0.2-0.3	12/12/2023			X		1			X													
BH34 0.0-0.1	13/12/2023			X		1	X															
BH34 0.3-0.4	13/12/2023			X		1			x													
BH35 0.0-0.1	13/12/2023			X		1	X															
BH35 0.2-0.3	13/12/2023			X		1			X													
BH36 0.0-0.1	13/12/2023			X		1	X															
BH36 0.4-0.5	13/12/2023			X		1			X													
BH37 0.0-0.1	13/12/2023			X		1	X															
BH37 0.1-0.2	13/12/2023			X		1			X													
BH38 0.0-0.1	13/12/2023			X		1	X															

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By:	Date/Time 20/12/23 @ 5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SAMPLE RECEIPT ADVICE

SE258534

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	33

LABORATORY DETAILS

Manager	Huong Crawford
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	Wed 20/12/2023
Report Due	Fri 19/1/2024
SGS Reference	**SE258534**

SUBMISSION DETAILS

This is to confirm that 33 samples were received on Wednesday 20/12/2023. Results are expected to be ready by COB Friday 19/1/2024.
Please quote SGS reference SE258534 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	33 Soil	Type of documentation received	COC
Date documentation received	20/12/2023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.8°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

33 soil samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.
% Clay subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146.

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SAMPLE RECEIPT ADVICE

SE258534

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Speciated Phenols in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH1 0.0-0.1	30	14	26	11	18	10	11	7
002	BH2 0.0-0.1	30	14	26	11	18	10	11	7
003	BH3 0.0-0.1	30	14	26	11	18	10	11	7
004	BH4 0.0-0.1	30	14	26	11	18	10	11	7
005	BH5 0.0-0.1	30	14	26	11	18	10	11	7
006	BH6 0.0-0.1	30	14	26	11	18	10	11	7
007	BH7 0.0-0.1	30	14	26	11	18	10	11	7
008	BH8 0.0-0.1	30	14	26	11	18	10	11	7
009	BH9 0.0-0.1	30	14	26	11	18	10	11	7
010	BH10 0.0-0.1	30	14	26	11	18	10	11	7
011	BH11 0.0-0.1	30	14	26	11	18	10	11	7
012	BH12 0.0-0.1	30	14	26	11	18	10	11	7
013	BH13 0.0-0.1	30	14	26	11	18	10	11	7
014	BH14 0.0-0.1	30	14	26	11	18	10	11	7
015	BH15 0.0-0.1	30	14	26	11	18	10	11	7
016	BH16 0.0-0.1	30	14	26	11	18	10	11	7
017	BH17 0.0-0.1	30	14	26	11	18	10	11	7
018	BH18 0.0-0.1	30	14	26	11	18	10	11	7
019	BH19 0.0-0.1	30	14	26	11	18	10	11	7
020	BH20 0.0-0.1	30	14	26	11	18	10	11	7
021	BH21 0.0-0.1	30	14	26	11	18	10	11	7
022	BH22 0.0-0.1	30	14	26	11	18	10	11	7
023	BH23 0.0-0.1	30	14	26	11	18	10	11	7
024	BH24 0.0-0.1	30	14	26	11	18	10	11	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
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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

SE258534

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Speciated Phenols in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
025	BH25 0.0-0.1	30	14	26	11	18	10	11	7
026	BH26 0.0-0.1	30	14	26	11	18	10	11	7
027	BH27 0.0-0.1	30	14	26	11	18	10	11	7
028	BH28 0.0-0.1	30	14	26	11	18	10	11	7
029	BH29 0.0-0.1	30	14	26	11	18	10	11	7
030	BH30 0.0-0.1	30	14	26	11	18	10	11	7
031	BH31 0.0-0.1	30	14	26	11	18	10	11	7
032	BH32 0.0-0.1	30	14	26	11	18	10	11	7
033	BH33 0.0-0.1	30	14	26	11	18	10	11	7

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE258534

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Mercury in Soil	Moisture Content	Particle sizing of soils by sieving	pH in soil (1:5)	Total Recoverable Elements in Soil/Waste
001	BH1 0.0-0.1	13	1	1	2	1	7
002	BH2 0.0-0.1	-	1	1	-	-	7
003	BH3 0.0-0.1	-	1	1	-	-	7
004	BH4 0.0-0.1	-	1	1	-	-	7
005	BH5 0.0-0.1	-	1	1	-	-	7
006	BH6 0.0-0.1	-	1	1	-	-	7
007	BH7 0.0-0.1	-	1	1	-	-	7
008	BH8 0.0-0.1	-	1	1	-	-	7
009	BH9 0.0-0.1	-	1	1	-	-	7
010	BH10 0.0-0.1	-	1	1	-	-	7
011	BH11 0.0-0.1	13	1	1	2	1	7
012	BH12 0.0-0.1	-	1	1	-	-	7
013	BH13 0.0-0.1	-	1	1	-	-	7
014	BH14 0.0-0.1	-	1	1	-	-	7
015	BH15 0.0-0.1	-	1	1	-	-	7
016	BH16 0.0-0.1	-	1	1	-	-	7
017	BH17 0.0-0.1	-	1	1	-	-	7
018	BH18 0.0-0.1	-	1	1	-	-	7
019	BH19 0.0-0.1	-	1	1	-	-	7
020	BH20 0.0-0.1	13	1	1	2	1	7
021	BH21 0.0-0.1	-	1	1	-	-	7
022	BH22 0.0-0.1	-	1	1	-	-	7
023	BH23 0.0-0.1	-	1	1	-	-	7
024	BH24 0.0-0.1	-	1	1	-	-	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
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Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE258534

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Mercury in Soil	Moisture Content	Particle sizing of soils by sieving	pH in soil (1:5)	Total Recoverable Elements in Soil/Waste
025	BH25 0.0-0.1	-	1	1	-	-	7
026	BH26 0.0-0.1	-	1	1	-	-	7
027	BH27 0.0-0.1	-	1	1	-	-	7
028	BH28 0.0-0.1	-	1	1	-	-	7
029	BH29 0.0-0.1	-	1	1	-	-	7
030	BH30 0.0-0.1	-	1	1	-	-	7
031	BH31 0.0-0.1	-	1	1	-	-	7
032	BH32 0.0-0.1	-	1	1	-	-	7
033	BH33 0.0-0.1	13	1	1	2	1	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

SE258534

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Particle sizing of soils <75µm by hydrometer
001	BH1 0.0-0.1	1
011	BH11 0.0-0.1	1
020	BH20 0.0-0.1	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 .

SAMPLE RECEIPT ADVICE

SE258534

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Particle sizing of soils <75µm by hydrometer
033	BH33 0.0-0.1	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 .

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Samantha Walsh
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Project	**P23158 - Additional**
Order Number	**P23158**
Samples	33

LABORATORY DETAILS

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SGS Reference	**SE258534A R0**
Date Received	14/2/2024
Date Reported	21/2/2024

COMMENTS

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

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Ly Kim HA
Organic Section Head

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil [AN403] Tested: 16/2/2024

PARAMETER	UOM	LOR	BH11 0.0-0.1 SOIL - 12/12/2023 SE258534A.011	BH14 0.0-0.1 SOIL - 12/12/2023 SE258534A.014	BH19 0.0-0.1 SOIL - 12/12/2023 SE258534A.019	BH20 0.0-0.1 SOIL - 12/12/2023 SE258534A.020	BH21 0.0-0.1 SOIL - 12/12/2023 SE258534A.021
TRH C10-C14-Silica	mg/kg	20	<20	<20	<20	**52**	<20
TRH C15-C28-Silica	mg/kg	45	<45	<45	<45	**71**	<45
TRH C29-C36-Silica	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40-Silica	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16-Silica	mg/kg	25	<25	<25	<25	**120**	<25
TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	<25	<25	<25	**120**	<25
TRH >C16-C34-Silica (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40-Silica (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36-Silica	mg/kg	110	<110	<110	<110	**120**	<110

PARAMETER	UOM	LOR	BH29 0.0-0.1 SOIL - 12/12/2023 SE258534A.029
TRH C10-C14-Silica	mg/kg	20	<20
TRH C15-C28-Silica	mg/kg	45	<45
TRH C29-C36-Silica	mg/kg	45	<45
TRH C37-C40-Silica	mg/kg	100	<100
TRH >C10-C16-Silica	mg/kg	25	<25
TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	<25
TRH >C16-C34-Silica (F3)	mg/kg	90	<90
TRH >C34-C40-Silica (F4)	mg/kg	120	<120
TRH C10-C36-Silica	mg/kg	110	<110

METHOD	METHODOLOGY SUMMARY
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.
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-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

FOOTNOTES

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

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company 's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or

STATEMENT OF QA/QC PERFORMANCE

SE258534A R0

CLIENT DETAILS

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Facsimile	(Not specified)
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Project	**P23158 - Additional**
Order Number	**P23158**
Samples	33

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
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Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE258534A R0**
Date Received	14 Feb 2024
Date Reported	21 Feb 2024

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil	6 items

SAMPLE SUMMARY

Sample counts by matrix	6 Soil	Type of documentation received	Email
Date documentation received	14/2/2024@12:35pr	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.8°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE258534A 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

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil — **Method: ME-(AU)-[ENV]AN403**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11 0.0-0.1	SE258534A.011	LB304210	12 Dec 2023	14 Feb 2024	26 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024
BH14 0.0-0.1	SE258534A.014	LB304210	12 Dec 2023	14 Feb 2024	26 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024
BH19 0.0-0.1	SE258534A.019	LB304210	12 Dec 2023	14 Feb 2024	26 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024
BH20 0.0-0.1	SE258534A.020	LB304210	12 Dec 2023	14 Feb 2024	26 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024
BH21 0.0-0.1	SE258534A.021	LB304210	12 Dec 2023	14 Feb 2024	26 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024
BH29 0.0-0.1	SE258534A.029	LB304210	12 Dec 2023	14 Feb 2024	26 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

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.

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil — **Method: ME-(AU)-[ENV]AN403**

Sample Number	Parameter	Units	LOR	Result
LB304210.001	TRH C10-C14-Silica	mg/kg	20	<20
	TRH C15-C28-Silica	mg/kg	45	<45
	TRH C29-C36-Silica	mg/kg	45	<45
	TRH C37-C40-Silica	mg/kg	100	<100
	TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	<25
	TRH >C16-C34-Silica (F3)	mg/kg	90	<90
	TRH >C34-C40-Silica (F4)	mg/kg	120	<120

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil — **Method: ME-(AU)-[ENV]AN403**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536A.025	LB304210.014	TRH C10-C14-Silica	mg/kg	20	4.80195599025	.7565616991	200	0
		TRH C15-C28-Silica	mg/kg	45	0.42426920390	0.5689064325	200	0
		TRH C29-C36-Silica	mg/kg	45	5.73004487384	.1052866723	200	0
		TRH C37-C40-Silica	mg/kg	100	0.82202158260	0.8220215826	200	0
		TRH C10-C36-Silica	mg/kg	110	0	0	200	0
		TRH >C10-C16-Silica	mg/kg	25	4.62357007495	.5757651633	200	0
		TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	4.62357007495	.5757651633	200	0
		TRH >C16-C34-Silica (F3)	mg/kg	90	6.12538663214	.5850001472	200	0
		TRH >C34-C40-Silica (F4)	mg/kg	120	0.89916143790	0.9160357812	200	0
SE258536A.043	LB304210.018	TRH C10-C14-Silica	mg/kg	20	3.62486961443	.5022894825	200	0
		TRH C15-C28-Silica	mg/kg	45	7.83262026418	.9683627106	200	0
		TRH C29-C36-Silica	mg/kg	45	27.290339974	80.610010077	185	0
		TRH C37-C40-Silica	mg/kg	100	1.34337818001	.6535809628	200	0
		TRH C10-C36-Silica	mg/kg	110	0	0	200	0
		TRH >C10-C16-Silica	mg/kg	25	3.43974859893	.2621324894	200	0
		TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	3.43974859893	.2621324894	200	0
		TRH >C16-C34-Silica (F3)	mg/kg	90	35.4381662924	9.8935788412	200	0
		TRH >C34-C40-Silica (F4)	mg/kg	120	1.54851227832	.0663507946	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.

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil — **Method: ME-(AU)-[ENV]AN403**

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB304210.002	TRH C10-C14-Silica	mg/kg	20	43	40	70 - 130	106
	TRH C15-C28-Silica	mg/kg	45	<45	40	70 - 130	105
	TRH C29-C36-Silica	mg/kg	45	<45	40	70 - 130	89
	TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	45	40	70 - 130	112
	TRH >C16-C34-Silica (F3)	mg/kg	90	<90	40	70 - 130	100
	TRH >C34-C40-Silica (F4)	mg/kg	120	<120	20	70 - 130	87

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil — **Method: ME-(AU)-[ENV]AN403**

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534A.011	LB304210.004	TRH C10-C14-Silica	mg/kg	20	52	<20	40	121
		TRH C15-C28-Silica	mg/kg	45	51	<45	40	123
		TRH C29-C36-Silica	mg/kg	45	<45	<45	40	76
		TRH C10-C36-Silica	mg/kg	110	140	<110	-	-
		TRH >C10-C16-Silica	mg/kg	25	53	<25	-	-
		TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	53	<25	-	-
		TRH >C16-C34-Silica (F3)	mg/kg	90	<90	<90	-	-
		TRH >C34-C40-Silica (F4)	mg/kg	120	<120	<120	-	-

MATRIX SPIKE DUPLICATES

SE258534A R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.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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source: SE_Autoscan.pdf page: 1 SGS Ref: SE258534A_COC

Yin, Emily (Sydney)

From: Samantha Walsh <Samantha@lanterra.com.au>
Sent: Wednesday, 14 February 2024 12:35 PM
To: AU.SampleReceipt.Sydney, AU (Sydney); AU.Environmental.Sydney, AU (Sydney)
Subject: [EXTERNAL] Silica Gel Cleanup - SE258534, SE258536, SE259897

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hello

Can I please get silica gel cleanups on the following samples:

SE258534

- BH11
- BH14
- BH19
- BH20
- BH21
- BH29

SGS EHS Alexandria Laboratory
SE258534A COC
Received: 14 – Feb – 2024

SE258536

- BH41
- BH48
- BH55
- BH58
- BH63
- BH71
- BH76

SE259897

- GW2
- GW7

On standard turnaround time please.

Thanks
Sam

Kind Regards,
Samantha Walsh | Senior Environmental Scientist | BAppSc | GradCertSc (Hydrogeology)
Lanterra Consulting Pty Ltd

SAMPLE RECEIPT ADVICE

SE258534A

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158 - Additional**
Order Number	**P23158**
Samples	33

LABORATORY DETAILS

Manager	Huong Crawford
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	Wed 14/2/2024
Report Due	Wed 21/2/2024
SGS Reference	**SE258534A**

SUBMISSION DETAILS

This is to confirm that 33 samples were received on Wednesday 14/2/2024. Results are expected to be ready by COB Wednesday 21/2/2024. Please quote SGS reference SE258534A when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	6 Soil	Type of documentation received	Email
Date documentation received	14/2/2024@12:35pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.8°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

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SAMPLE RECEIPT ADVICE

SE258534A

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158 - Additional

SUMMARY OF ANALYSIS

No.	Sample ID	TRH Silica Gel (Total Recoverable
011	BH11 0.0-0.1	9
014	BH14 0.0-0.1	9
019	BH19 0.0-0.1	9
020	BH20 0.0-0.1	9
021	BH21 0.0-0.1	9

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

SE258534A

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158 - Additional

SUMMARY OF ANALYSIS

No.	Sample ID	TRH Silica Gel (Total Recoverable
029	BH29 0.0-0.1	9

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 .

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	48

LABORATORY DETAILS

Manager	Huong Crawford
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	**SE258536 R0**
Date Received	20/12/2023
Date Reported	19/1/2024

COMMENTS

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

Clay content subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146. Report No. CE171920

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Kamrul AHSAN
Senior Chemist

Ly Kim HA
Organic Section Head

Shane MCDERMOTT
Inorganic/Metals Chemist

VOC's in Soil [AN433] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH34 0.0-0.1 SOIL - 13/12/2023 SE258536.001	BH35 0.0-0.1 SOIL - 13/12/2023 SE258536.002	BH36 0.0-0.1 SOIL - 13/12/2023 SE258536.003	BH37 0.0-0.1 SOIL - 13/12/2023 SE258536.004	BH38 0.0-0.1 SOIL - 13/12/2023 SE258536.005
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	BH39 0.0-0.1 SOIL - 13/12/2023 SE258536.006	BH40 0.0-0.1 SOIL - 13/12/2023 SE258536.007	BH41 0.0-0.1 SOIL - 13/12/2023 SE258536.008	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH43 0.0-0.1 SOIL - 13/12/2023 SE258536.010
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	BH44 0.0-0.1 SOIL - 13/12/2023 SE258536.011	BH45 0.0-0.1 SOIL - 13/12/2023 SE258536.012	BH46 0.0-0.1 SOIL - 13/12/2023 SE258536.013	BH47 0.0-0.1 SOIL - 13/12/2023 SE258536.014	BH48 0.0-0.1 SOIL - 13/12/2023 SE258536.015
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	BH49 0.0-0.1 SOIL - 13/12/2023 SE258536.016	BH50 0.0-0.1 SOIL - 13/12/2023 SE258536.017	BH51 0.0-0.1 SOIL - 13/12/2023 SE258536.018	BH52 0.0-0.1 SOIL - 13/12/2023 SE258536.019	BH53 0.0-0.1 SOIL - 13/12/2023 SE258536.020
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
Naphthalene (VOC)*	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

VOC's in Soil [AN433] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH54 0.0-0.1 SOIL - 13/12/2023 SE258536.021	BH55 0.0-0.1 SOIL - 13/12/2023 SE258536.022	BH56 0.0-0.1 SOIL - 13/12/2023 SE258536.023	BH57 0.0-0.1 SOIL - 13/12/2023 SE258536.024	BH58 0.0-0.1 SOIL - 14/12/2023 SE258536.025
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH60 0.0-0.1 SOIL - 14/12/2023 SE258536.027	BH61 0.0-0.1 SOIL - 14/12/2023 SE258536.028	BH62 0.0-0.1 SOIL - 14/12/2023 SE258536.029	BH63 0.0-0.1 SOIL - 14/12/2023 SE258536.030
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	BH64 0.0-0.1 SOIL - 14/12/2023 SE258536.031	BH65 0.0-0.1 SOIL - 14/12/2023 SE258536.032	BH66 0.0-0.1 SOIL - 14/12/2023 SE258536.033	BH67 0.0-0.1 SOIL - 14/12/2023 SE258536.034	BH68 0.0-0.1 SOIL - 14/12/2023 SE258536.035
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	BH69 0.0-0.1 SOIL - 14/12/2023 SE258536.036	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037	BH71 0.0-0.1 SOIL - 14/12/2023 SE258536.038	BH72 0.0-0.1 SOIL - 14/12/2023 SE258536.039	BH73 0.0-0.1 SOIL - 14/12/2023 SE258536.040
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
Naphthalene (VOC)*	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

VOC's in Soil [AN433] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH74 0.0-0.1 SOIL - 14/12/2023 SE258536.041	BH75 0.0-0.1 SOIL - 14/12/2023 SE258536.042	BH76 0.0-0.1 SOIL - 14/12/2023 SE258536.043	BH77 0.0-0.1 SOIL - 14/12/2023 SE258536.044	QC1 SOIL - 14/12/2023 SE258536.045
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	QC3 SOIL - 14/12/2023 SE258536.046	QC5 SOIL - 14/12/2023 SE258536.047	QC7 SOIL - 14/12/2023 SE258536.048
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH34 0.0-0.1 SOIL - 13/12/2023 SE258536.001	BH35 0.0-0.1 SOIL - 13/12/2023 SE258536.002	BH36 0.0-0.1 SOIL - 13/12/2023 SE258536.003	BH37 0.0-0.1 SOIL - 13/12/2023 SE258536.004	BH38 0.0-0.1 SOIL - 13/12/2023 SE258536.005
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	BH39 0.0-0.1 SOIL - 13/12/2023 SE258536.006	BH40 0.0-0.1 SOIL - 13/12/2023 SE258536.007	BH41 0.0-0.1 SOIL - 13/12/2023 SE258536.008	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH43 0.0-0.1 SOIL - 13/12/2023 SE258536.010
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	BH44 0.0-0.1 SOIL - 13/12/2023 SE258536.011	BH45 0.0-0.1 SOIL - 13/12/2023 SE258536.012	BH46 0.0-0.1 SOIL - 13/12/2023 SE258536.013	BH47 0.0-0.1 SOIL - 13/12/2023 SE258536.014	BH48 0.0-0.1 SOIL - 13/12/2023 SE258536.015
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	BH49 0.0-0.1 SOIL - 13/12/2023 SE258536.016	BH50 0.0-0.1 SOIL - 13/12/2023 SE258536.017	BH51 0.0-0.1 SOIL - 13/12/2023 SE258536.018	BH52 0.0-0.1 SOIL - 13/12/2023 SE258536.019	BH53 0.0-0.1 SOIL - 13/12/2023 SE258536.020
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	BH54 0.0-0.1 SOIL - 13/12/2023 SE258536.021	BH55 0.0-0.1 SOIL - 13/12/2023 SE258536.022	BH56 0.0-0.1 SOIL - 13/12/2023 SE258536.023	BH57 0.0-0.1 SOIL - 13/12/2023 SE258536.024	BH58 0.0-0.1 SOIL - 14/12/2023 SE258536.025
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH60 0.0-0.1 SOIL - 14/12/2023 SE258536.027	BH61 0.0-0.1 SOIL - 14/12/2023 SE258536.028	BH62 0.0-0.1 SOIL - 14/12/2023 SE258536.029	BH63 0.0-0.1 SOIL - 14/12/2023 SE258536.030
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH64 0.0-0.1 SOIL - 14/12/2023 SE258536.031	BH65 0.0-0.1 SOIL - 14/12/2023 SE258536.032	BH66 0.0-0.1 SOIL - 14/12/2023 SE258536.033	BH67 0.0-0.1 SOIL - 14/12/2023 SE258536.034	BH68 0.0-0.1 SOIL - 14/12/2023 SE258536.035
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	BH69 0.0-0.1 SOIL - 14/12/2023 SE258536.036	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037	BH71 0.0-0.1 SOIL - 14/12/2023 SE258536.038	BH72 0.0-0.1 SOIL - 14/12/2023 SE258536.039	BH73 0.0-0.1 SOIL - 14/12/2023 SE258536.040
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	BH74 0.0-0.1 SOIL - 14/12/2023 SE258536.041	BH75 0.0-0.1 SOIL - 14/12/2023 SE258536.042	BH76 0.0-0.1 SOIL - 14/12/2023 SE258536.043	BH77 0.0-0.1 SOIL - 14/12/2023 SE258536.044	QC1 SOIL - 14/12/2023 SE258536.045
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	QC3 SOIL - 14/12/2023 SE258536.046	QC5 SOIL - 14/12/2023 SE258536.047	QC7 SOIL - 14/12/2023 SE258536.048
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH34 0.0-0.1 SOIL - 13/12/2023 SE258536.001	BH35 0.0-0.1 SOIL - 13/12/2023 SE258536.002	BH36 0.0-0.1 SOIL - 13/12/2023 SE258536.003	BH37 0.0-0.1 SOIL - 13/12/2023 SE258536.004	BH38 0.0-0.1 SOIL - 13/12/2023 SE258536.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	64	<45	47	48	58
TRH C29-C36	mg/kg	45	53	47	91	85	79
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	110	<90	130	120	130
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	120	<110	140	130	140
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH39 0.0-0.1 SOIL - 13/12/2023 SE258536.006	BH40 0.0-0.1 SOIL - 13/12/2023 SE258536.007	BH41 0.0-0.1 SOIL - 13/12/2023 SE258536.008	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH43 0.0-0.1 SOIL - 13/12/2023 SE258536.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	100	93	98	71	98
TRH C29-C36	mg/kg	45	110	93	120	75	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	190	170	200	130	190
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	210	190	220	150	200
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH44 0.0-0.1 SOIL - 13/12/2023 SE258536.011	BH45 0.0-0.1 SOIL - 13/12/2023 SE258536.012	BH46 0.0-0.1 SOIL - 13/12/2023 SE258536.013	BH47 0.0-0.1 SOIL - 13/12/2023 SE258536.014	BH48 0.0-0.1 SOIL - 13/12/2023 SE258536.015
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	84	<45	<45	<45	100
TRH C29-C36	mg/kg	45	100	<45	47	<45	110
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	26
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	26
TRH >C16-C34 (F3)	mg/kg	90	170	<90	<90	<90	180
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	190	<110	<110	<110	210
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH49 0.0-0.1 SOIL - 13/12/2023 SE258536.016	BH50 0.0-0.1 SOIL - 13/12/2023 SE258536.017	BH51 0.0-0.1 SOIL - 13/12/2023 SE258536.018	BH52 0.0-0.1 SOIL - 13/12/2023 SE258536.019	BH53 0.0-0.1 SOIL - 13/12/2023 SE258536.020
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	67	64	78	94	85
TRH C29-C36	mg/kg	45	62	77	58	82	77
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	120	130	130	160	150
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	130	140	140	180	160
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH54 0.0-0.1 SOIL - 13/12/2023 SE258536.021	BH55 0.0-0.1 SOIL - 13/12/2023 SE258536.022	BH56 0.0-0.1 SOIL - 13/12/2023 SE258536.023	BH57 0.0-0.1 SOIL - 13/12/2023 SE258536.024	BH58 0.0-0.1 SOIL - 14/12/2023 SE258536.025
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	28
TRH C15-C28	mg/kg	45	92	71	61	<45	110
TRH C29-C36	mg/kg	45	80	76	69	<45	68
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	37
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	37
TRH >C16-C34 (F3)	mg/kg	90	160	140	120	<90	140
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	170	150	130	<110	200
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH60 0.0-0.1 SOIL - 14/12/2023 SE258536.027	BH61 0.0-0.1 SOIL - 14/12/2023 SE258536.028	BH62 0.0-0.1 SOIL - 14/12/2023 SE258536.029	BH63 0.0-0.1 SOIL - 14/12/2023 SE258536.030
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	56	48	<45	52	93
TRH C29-C36	mg/kg	45	60	83	54	86	130
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	100	120	<90	120	200
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	120	130	<110	140	220
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH64 0.0-0.1 SOIL - 14/12/2023 SE258536.031	BH65 0.0-0.1 SOIL - 14/12/2023 SE258536.032	BH66 0.0-0.1 SOIL - 14/12/2023 SE258536.033	BH67 0.0-0.1 SOIL - 14/12/2023 SE258536.034	BH68 0.0-0.1 SOIL - 14/12/2023 SE258536.035
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	70	92	71	74	<45
TRH C29-C36	mg/kg	45	130	190	84	86	54
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	170	180	130	140	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	200	280	160	160	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH69 0.0-0.1 SOIL - 14/12/2023 SE258536.036	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037	BH71 0.0-0.1 SOIL - 14/12/2023 SE258536.038	BH72 0.0-0.1 SOIL - 14/12/2023 SE258536.039	BH73 0.0-0.1 SOIL - 14/12/2023 SE258536.040
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	59	87	130	68	<45
TRH C29-C36	mg/kg	45	80	80	180	58	66
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	120	140	220	110	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	140	170	310	130	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	220	<210	<210

PARAMETER	UOM	LOR	BH74 0.0-0.1 SOIL - 14/12/2023 SE258536.041	BH75 0.0-0.1 SOIL - 14/12/2023 SE258536.042	BH76 0.0-0.1 SOIL - 14/12/2023 SE258536.043	BH77 0.0-0.1 SOIL - 14/12/2023 SE258536.044	QC1 SOIL - 14/12/2023 SE258536.045
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	46	90	180	100	140
TRH C29-C36	mg/kg	45	60	100	570	160	160
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	94	170	610	230	250
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	180	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	190	750	260	300
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	790	230	250

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	QC3 SOIL - 14/12/2023 SE258536.046	QC5 SOIL - 14/12/2023 SE258536.047	QC7 SOIL - 14/12/2023 SE258536.048
TRH C10-C14	mg/kg	20	<20	<20	<20
TRH C15-C28	mg/kg	45	**58**	<45	**97**
TRH C29-C36	mg/kg	45	**73**	**59**	**140**
TRH C37-C40	mg/kg	100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	**110**	<90	**200**
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	**130**	<110	**230**
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH34 0.0-0.1 SOIL - 13/12/2023 SE258536.001	BH35 0.0-0.1 SOIL - 13/12/2023 SE258536.002	BH36 0.0-0.1 SOIL - 13/12/2023 SE258536.003	BH37 0.0-0.1 SOIL - 13/12/2023 SE258536.004	BH38 0.0-0.1 SOIL - 13/12/2023 SE258536.005
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	BH39 0.0-0.1 SOIL - 13/12/2023 SE258536.006	BH40 0.0-0.1 SOIL - 13/12/2023 SE258536.007	BH41 0.0-0.1 SOIL - 13/12/2023 SE258536.008	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH43 0.0-0.1 SOIL - 13/12/2023 SE258536.010
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: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH44 0.0-0.1 SOIL - 13/12/2023 SE258536.011	BH45 0.0-0.1 SOIL - 13/12/2023 SE258536.012	BH46 0.0-0.1 SOIL - 13/12/2023 SE258536.013	BH47 0.0-0.1 SOIL - 13/12/2023 SE258536.014	BH48 0.0-0.1 SOIL - 13/12/2023 SE258536.015
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	BH49 0.0-0.1 SOIL - 13/12/2023 SE258536.016	BH50 0.0-0.1 SOIL - 13/12/2023 SE258536.017	BH51 0.0-0.1 SOIL - 13/12/2023 SE258536.018	BH52 0.0-0.1 SOIL - 13/12/2023 SE258536.019	BH53 0.0-0.1 SOIL - 13/12/2023 SE258536.020
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: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH54 0.0-0.1 SOIL - 13/12/2023 SE258536.021	BH55 0.0-0.1 SOIL - 13/12/2023 SE258536.022	BH56 0.0-0.1 SOIL - 13/12/2023 SE258536.023	BH57 0.0-0.1 SOIL - 13/12/2023 SE258536.024	BH58 0.0-0.1 SOIL - 14/12/2023 SE258536.025
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	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH60 0.0-0.1 SOIL - 14/12/2023 SE258536.027	BH61 0.0-0.1 SOIL - 14/12/2023 SE258536.028	BH62 0.0-0.1 SOIL - 14/12/2023 SE258536.029	BH63 0.0-0.1 SOIL - 14/12/2023 SE258536.030
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: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH64 0.0-0.1 SOIL - 14/12/2023 SE258536.031	BH65 0.0-0.1 SOIL - 14/12/2023 SE258536.032	BH66 0.0-0.1 SOIL - 14/12/2023 SE258536.033	BH67 0.0-0.1 SOIL - 14/12/2023 SE258536.034	BH68 0.0-0.1 SOIL - 14/12/2023 SE258536.035
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	BH69 0.0-0.1 SOIL - 14/12/2023 SE258536.036	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037	BH71 0.0-0.1 SOIL - 14/12/2023 SE258536.038	BH72 0.0-0.1 SOIL - 14/12/2023 SE258536.039	BH73 0.0-0.1 SOIL - 14/12/2023 SE258536.040
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: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH74 0.0-0.1 SOIL - 14/12/2023 SE258536.041	BH75 0.0-0.1 SOIL - 14/12/2023 SE258536.042	BH76 0.0-0.1 SOIL - 14/12/2023 SE258536.043	BH77 0.0-0.1 SOIL - 14/12/2023 SE258536.044	QC1 SOIL - 14/12/2023 SE258536.045
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	QC3 SOIL - 14/12/2023 SE258536.046	QC5 SOIL - 14/12/2023 SE258536.047	QC7 SOIL - 14/12/2023 SE258536.048
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	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
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	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
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8

Speciated Phenols in Soil [AN420] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH34 0.0-0.1 SOIL - 13/12/2023 SE258536.001	BH35 0.0-0.1 SOIL - 13/12/2023 SE258536.002	BH36 0.0-0.1 SOIL - 13/12/2023 SE258536.003	BH37 0.0-0.1 SOIL - 13/12/2023 SE258536.004	BH38 0.0-0.1 SOIL - 13/12/2023 SE258536.005
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	BH39 0.0-0.1 SOIL - 13/12/2023 SE258536.006	BH40 0.0-0.1 SOIL - 13/12/2023 SE258536.007	BH41 0.0-0.1 SOIL - 13/12/2023 SE258536.008	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH43 0.0-0.1 SOIL - 13/12/2023 SE258536.010
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH44 0.0-0.1 SOIL - 13/12/2023 SE258536.011	BH45 0.0-0.1 SOIL - 13/12/2023 SE258536.012	BH46 0.0-0.1 SOIL - 13/12/2023 SE258536.013	BH47 0.0-0.1 SOIL - 13/12/2023 SE258536.014	BH48 0.0-0.1 SOIL - 13/12/2023 SE258536.015
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	BH49 0.0-0.1 SOIL - 13/12/2023 SE258536.016	BH50 0.0-0.1 SOIL - 13/12/2023 SE258536.017	BH51 0.0-0.1 SOIL - 13/12/2023 SE258536.018	BH52 0.0-0.1 SOIL - 13/12/2023 SE258536.019	BH53 0.0-0.1 SOIL - 13/12/2023 SE258536.020
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH54 0.0-0.1 SOIL - 13/12/2023 SE258536.021	BH55 0.0-0.1 SOIL - 13/12/2023 SE258536.022	BH56 0.0-0.1 SOIL - 13/12/2023 SE258536.023	BH57 0.0-0.1 SOIL - 13/12/2023 SE258536.024	BH58 0.0-0.1 SOIL - 14/12/2023 SE258536.025
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH60 0.0-0.1 SOIL - 14/12/2023 SE258536.027	BH61 0.0-0.1 SOIL - 14/12/2023 SE258536.028	BH62 0.0-0.1 SOIL - 14/12/2023 SE258536.029	BH63 0.0-0.1 SOIL - 14/12/2023 SE258536.030
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH64 0.0-0.1 SOIL - 14/12/2023 SE258536.031	BH65 0.0-0.1 SOIL - 14/12/2023 SE258536.032	BH66 0.0-0.1 SOIL - 14/12/2023 SE258536.033	BH67 0.0-0.1 SOIL - 14/12/2023 SE258536.034	BH68 0.0-0.1 SOIL - 14/12/2023 SE258536.035
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	BH69 0.0-0.1 SOIL - 14/12/2023 SE258536.036	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037	BH71 0.0-0.1 SOIL - 14/12/2023 SE258536.038	BH72 0.0-0.1 SOIL - 14/12/2023 SE258536.039	BH73 0.0-0.1 SOIL - 14/12/2023 SE258536.040
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH74 0.0-0.1 SOIL - 14/12/2023 SE258536.041	BH75 0.0-0.1 SOIL - 14/12/2023 SE258536.042	BH76 0.0-0.1 SOIL - 14/12/2023 SE258536.043	BH77 0.0-0.1 SOIL - 14/12/2023 SE258536.044	QC1 SOIL - 14/12/2023 SE258536.045
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	QC3 SOIL - 14/12/2023 SE258536.046	QC5 SOIL - 14/12/2023 SE258536.047	QC7 SOIL - 14/12/2023 SE258536.048
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2

OC Pesticides in Soil [AN420] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH34 0.0-0.1 SOIL - 13/12/2023 SE258536.001	BH35 0.0-0.1 SOIL - 13/12/2023 SE258536.002	BH36 0.0-0.1 SOIL - 13/12/2023 SE258536.003	BH37 0.0-0.1 SOIL - 13/12/2023 SE258536.004	BH38 0.0-0.1 SOIL - 13/12/2023 SE258536.005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH39 0.0-0.1 SOIL - 13/12/2023 SE258536.006	BH40 0.0-0.1 SOIL - 13/12/2023 SE258536.007	BH41 0.0-0.1 SOIL - 13/12/2023 SE258536.008	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH43 0.0-0.1 SOIL - 13/12/2023 SE258536.010
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH44 0.0-0.1 SOIL - 13/12/2023 SE258536.011	BH45 0.0-0.1 SOIL - 13/12/2023 SE258536.012	BH46 0.0-0.1 SOIL - 13/12/2023 SE258536.013	BH47 0.0-0.1 SOIL - 13/12/2023 SE258536.014	BH48 0.0-0.1 SOIL - 13/12/2023 SE258536.015
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH49 0.0-0.1 SOIL - 13/12/2023 SE258536.016	BH50 0.0-0.1 SOIL - 13/12/2023 SE258536.017	BH51 0.0-0.1 SOIL - 13/12/2023 SE258536.018	BH52 0.0-0.1 SOIL - 13/12/2023 SE258536.019	BH53 0.0-0.1 SOIL - 13/12/2023 SE258536.020
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH54 0.0-0.1 SOIL - 13/12/2023 SE258536.021	BH55 0.0-0.1 SOIL - 13/12/2023 SE258536.022	BH56 0.0-0.1 SOIL - 13/12/2023 SE258536.023	BH57 0.0-0.1 SOIL - 13/12/2023 SE258536.024	BH58 0.0-0.1 SOIL - 14/12/2023 SE258536.025
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH60 0.0-0.1 SOIL - 14/12/2023 SE258536.027	BH61 0.0-0.1 SOIL - 14/12/2023 SE258536.028	BH62 0.0-0.1 SOIL - 14/12/2023 SE258536.029	BH63 0.0-0.1 SOIL - 14/12/2023 SE258536.030
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH64 0.0-0.1 SOIL - 14/12/2023 SE258536.031	BH65 0.0-0.1 SOIL - 14/12/2023 SE258536.032	BH66 0.0-0.1 SOIL - 14/12/2023 SE258536.033	BH67 0.0-0.1 SOIL - 14/12/2023 SE258536.034	BH68 0.0-0.1 SOIL - 14/12/2023 SE258536.035
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH69 0.0-0.1 SOIL - 14/12/2023 SE258536.036	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037	BH71 0.0-0.1 SOIL - 14/12/2023 SE258536.038	BH72 0.0-0.1 SOIL - 14/12/2023 SE258536.039	BH73 0.0-0.1 SOIL - 14/12/2023 SE258536.040
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH74 0.0-0.1 SOIL - 14/12/2023 SE258536.041	BH75 0.0-0.1 SOIL - 14/12/2023 SE258536.042	BH76 0.0-0.1 SOIL - 14/12/2023 SE258536.043	BH77 0.0-0.1 SOIL - 14/12/2023 SE258536.044	QC1 SOIL - 14/12/2023 SE258536.045
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	QC3 SOIL - 14/12/2023 SE258536.046	QC5 SOIL - 14/12/2023 SE258536.047	QC7 SOIL - 14/12/2023 SE258536.048
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Lindane (gamma 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
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1

OP Pesticides in Soil [AN420] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH34 0.0-0.1 SOIL - 13/12/2023 SE258536.001	BH35 0.0-0.1 SOIL - 13/12/2023 SE258536.002	BH36 0.0-0.1 SOIL - 13/12/2023 SE258536.003	BH37 0.0-0.1 SOIL - 13/12/2023 SE258536.004	BH38 0.0-0.1 SOIL - 13/12/2023 SE258536.005
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	BH39 0.0-0.1 SOIL - 13/12/2023 SE258536.006	BH40 0.0-0.1 SOIL - 13/12/2023 SE258536.007	BH41 0.0-0.1 SOIL - 13/12/2023 SE258536.008	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH43 0.0-0.1 SOIL - 13/12/2023 SE258536.010
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	**0.3**
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	BH44 0.0-0.1 SOIL - 13/12/2023 SE258536.011	BH45 0.0-0.1 SOIL - 13/12/2023 SE258536.012	BH46 0.0-0.1 SOIL - 13/12/2023 SE258536.013	BH47 0.0-0.1 SOIL - 13/12/2023 SE258536.014	BH48 0.0-0.1 SOIL - 13/12/2023 SE258536.015
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: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH49 0.0-0.1 SOIL - 13/12/2023 SE258536.016	BH50 0.0-0.1 SOIL - 13/12/2023 SE258536.017	BH51 0.0-0.1 SOIL - 13/12/2023 SE258536.018	BH52 0.0-0.1 SOIL - 13/12/2023 SE258536.019	BH53 0.0-0.1 SOIL - 13/12/2023 SE258536.020
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	BH54 0.0-0.1 SOIL - 13/12/2023 SE258536.021	BH55 0.0-0.1 SOIL - 13/12/2023 SE258536.022	BH56 0.0-0.1 SOIL - 13/12/2023 SE258536.023	BH57 0.0-0.1 SOIL - 13/12/2023 SE258536.024	BH58 0.0-0.1 SOIL - 14/12/2023 SE258536.025
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	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH60 0.0-0.1 SOIL - 14/12/2023 SE258536.027	BH61 0.0-0.1 SOIL - 14/12/2023 SE258536.028	BH62 0.0-0.1 SOIL - 14/12/2023 SE258536.029	BH63 0.0-0.1 SOIL - 14/12/2023 SE258536.030
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: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH64 0.0-0.1 SOIL - 14/12/2023 SE258536.031	BH65 0.0-0.1 SOIL - 14/12/2023 SE258536.032	BH66 0.0-0.1 SOIL - 14/12/2023 SE258536.033	BH67 0.0-0.1 SOIL - 14/12/2023 SE258536.034	BH68 0.0-0.1 SOIL - 14/12/2023 SE258536.035
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	BH69 0.0-0.1 SOIL - 14/12/2023 SE258536.036	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037	BH71 0.0-0.1 SOIL - 14/12/2023 SE258536.038	BH72 0.0-0.1 SOIL - 14/12/2023 SE258536.039	BH73 0.0-0.1 SOIL - 14/12/2023 SE258536.040
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	BH74 0.0-0.1 SOIL - 14/12/2023 SE258536.041	BH75 0.0-0.1 SOIL - 14/12/2023 SE258536.042	BH76 0.0-0.1 SOIL - 14/12/2023 SE258536.043	BH77 0.0-0.1 SOIL - 14/12/2023 SE258536.044	QC1 SOIL - 14/12/2023 SE258536.045
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: 21/12/2023 (continued)

PARAMETER	UOM	LOR	QC3 SOIL - 14/12/2023 SE258536.046	QC5 SOIL - 14/12/2023 SE258536.047	QC7 SOIL - 14/12/2023 SE258536.048
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

PCBs in Soil [AN420] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH34 0.0-0.1 SOIL - 13/12/2023 SE258536.001	BH35 0.0-0.1 SOIL - 13/12/2023 SE258536.002	BH36 0.0-0.1 SOIL - 13/12/2023 SE258536.003	BH37 0.0-0.1 SOIL - 13/12/2023 SE258536.004	BH38 0.0-0.1 SOIL - 13/12/2023 SE258536.005
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH39 0.0-0.1 SOIL - 13/12/2023 SE258536.006	BH40 0.0-0.1 SOIL - 13/12/2023 SE258536.007	BH41 0.0-0.1 SOIL - 13/12/2023 SE258536.008	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH43 0.0-0.1 SOIL - 13/12/2023 SE258536.010
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH44 0.0-0.1 SOIL - 13/12/2023 SE258536.011	BH45 0.0-0.1 SOIL - 13/12/2023 SE258536.012	BH46 0.0-0.1 SOIL - 13/12/2023 SE258536.013	BH47 0.0-0.1 SOIL - 13/12/2023 SE258536.014	BH48 0.0-0.1 SOIL - 13/12/2023 SE258536.015
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH49 0.0-0.1 SOIL - 13/12/2023 SE258536.016	BH50 0.0-0.1 SOIL - 13/12/2023 SE258536.017	BH51 0.0-0.1 SOIL - 13/12/2023 SE258536.018	BH52 0.0-0.1 SOIL - 13/12/2023 SE258536.019	BH53 0.0-0.1 SOIL - 13/12/2023 SE258536.020
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH54 0.0-0.1 SOIL - 13/12/2023 SE258536.021	BH55 0.0-0.1 SOIL - 13/12/2023 SE258536.022	BH56 0.0-0.1 SOIL - 13/12/2023 SE258536.023	BH57 0.0-0.1 SOIL - 13/12/2023 SE258536.024	BH58 0.0-0.1 SOIL - 14/12/2023 SE258536.025
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH60 0.0-0.1 SOIL - 14/12/2023 SE258536.027	BH61 0.0-0.1 SOIL - 14/12/2023 SE258536.028	BH62 0.0-0.1 SOIL - 14/12/2023 SE258536.029	BH63 0.0-0.1 SOIL - 14/12/2023 SE258536.030
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH64 0.0-0.1 SOIL - 14/12/2023 SE258536.031	BH65 0.0-0.1 SOIL - 14/12/2023 SE258536.032	BH66 0.0-0.1 SOIL - 14/12/2023 SE258536.033	BH67 0.0-0.1 SOIL - 14/12/2023 SE258536.034	BH68 0.0-0.1 SOIL - 14/12/2023 SE258536.035
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH69 0.0-0.1 SOIL - 14/12/2023 SE258536.036	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037	BH71 0.0-0.1 SOIL - 14/12/2023 SE258536.038	BH72 0.0-0.1 SOIL - 14/12/2023 SE258536.039	BH73 0.0-0.1 SOIL - 14/12/2023 SE258536.040
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH74 0.0-0.1 SOIL - 14/12/2023 SE258536.041	BH75 0.0-0.1 SOIL - 14/12/2023 SE258536.042	BH76 0.0-0.1 SOIL - 14/12/2023 SE258536.043	BH77 0.0-0.1 SOIL - 14/12/2023 SE258536.044	QC1 SOIL - 14/12/2023 SE258536.045
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	QC3 SOIL - 14/12/2023 SE258536.046	QC5 SOIL - 14/12/2023 SE258536.047	QC7 SOIL - 14/12/2023 SE258536.048
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1

pH in soil (1:5) [AN101] Tested: 16/1/2024

PARAMETER	UOM	LOR	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037
pH	pH Units	0.1	**5.8**	**5.0**	**5.7**

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 18/1/2024

PARAMETER	UOM	LOR	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037
Exchangeable Calcium, Ca	mg/kg	2	1100	80	710
Exchangeable Calcium, Ca	meq/100g	0.01	5.5	0.40	3.6
Exchangeable Calcium Percentage*	%	0.1	26.5	16.1	51.6
Exchangeable Potassium, K	mg/kg	2	2000	130	240
Exchangeable Potassium, K	meq/100g	0.01	5.1	0.33	0.63
Exchangeable Potassium Percentage*	%	0.1	24.6	13.3	9.1
Exchangeable Magnesium, Mg	mg/kg	2	1100	160	300
Exchangeable Magnesium, Mg	meq/100g	0.02	8.7	1.3	2.4
Exchangeable Magnesium Percentage*	%	0.1	41.7	52.8	35.0
Exchangeable Sodium, Na	mg/kg	2	340	100	68
Exchangeable Sodium, Na	meq/100g	0.01	1.5	0.44	0.30
Exchangeable Sodium Percentage*	%	0.1	7.2	17.7	4.3
Cation Exchange Capacity	meq/100g	0.02	21	2.5	6.9

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH34 0.0-0.1 SOIL - 13/12/2023 SE258536.001	BH35 0.0-0.1 SOIL - 13/12/2023 SE258536.002	BH36 0.0-0.1 SOIL - 13/12/2023 SE258536.003	BH37 0.0-0.1 SOIL - 13/12/2023 SE258536.004	BH38 0.0-0.1 SOIL - 13/12/2023 SE258536.005
Arsenic, As	mg/kg	1	6	2	7	8	10
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	5.6	37	6.3	33	35
Copper, Cu	mg/kg	0.5	69	25	41	38	27
Lead, Pb	mg/kg	1	6	8	7	10	14
Nickel, Ni	mg/kg	0.5	3.6	21	3.3	6.3	22
Zinc, Zn	mg/kg	2	36	38	32	30	46

PARAMETER	UOM	LOR	BH39 0.0-0.1 SOIL - 13/12/2023 SE258536.006	BH40 0.0-0.1 SOIL - 13/12/2023 SE258536.007	BH41 0.0-0.1 SOIL - 13/12/2023 SE258536.008	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH43 0.0-0.1 SOIL - 13/12/2023 SE258536.010
Arsenic, As	mg/kg	1	8	8	15	12	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	65	63	57	98	5.5
Copper, Cu	mg/kg	0.5	30	68	54	37	32
Lead, Pb	mg/kg	1	8	9	7	9	7
Nickel, Ni	mg/kg	0.5	20	60	60	42	7.8
Zinc, Zn	mg/kg	2	37	170	74	72	71

PARAMETER	UOM	LOR	BH44 0.0-0.1 SOIL - 13/12/2023 SE258536.011	BH45 0.0-0.1 SOIL - 13/12/2023 SE258536.012	BH46 0.0-0.1 SOIL - 13/12/2023 SE258536.013	BH47 0.0-0.1 SOIL - 13/12/2023 SE258536.014	BH48 0.0-0.1 SOIL - 13/12/2023 SE258536.015
Arsenic, As	mg/kg	1	4	5	9	3	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	17	23	26	12	10
Copper, Cu	mg/kg	0.5	22	27	15	11	19
Lead, Pb	mg/kg	1	8	15	16	12	17
Nickel, Ni	mg/kg	0.5	4.9	25	8.0	5.3	12
Zinc, Zn	mg/kg	2	15	64	25	21	34

PARAMETER	UOM	LOR	BH49 0.0-0.1 SOIL - 13/12/2023 SE258536.016	BH50 0.0-0.1 SOIL - 13/12/2023 SE258536.017	BH51 0.0-0.1 SOIL - 13/12/2023 SE258536.018	BH52 0.0-0.1 SOIL - 13/12/2023 SE258536.019	BH53 0.0-0.1 SOIL - 13/12/2023 SE258536.020
Arsenic, As	mg/kg	1	3	6	15	7	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	14	6.2	13	19	7.8
Copper, Cu	mg/kg	0.5	10	8.9	24	19	20
Lead, Pb	mg/kg	1	16	6	11	21	6
Nickel, Ni	mg/kg	0.5	11	3.0	7.0	12	2.5
Zinc, Zn	mg/kg	2	35	9.5	18	27	15

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 21/12/2023

(continued)

PARAMETER	UOM	LOR	BH54 0.0-0.1 SOIL - 13/12/2023 SE258536.021	BH55 0.0-0.1 SOIL - 13/12/2023 SE258536.022	BH56 0.0-0.1 SOIL - 13/12/2023 SE258536.023	BH57 0.0-0.1 SOIL - 13/12/2023 SE258536.024	BH58 0.0-0.1 SOIL - 14/12/2023 SE258536.025
Arsenic, As	mg/kg	1	6	6	6	5	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	6.5	7.4	6.2	3.0	11
Copper, Cu	mg/kg	0.5	39	120	33	44	6.3
Lead, Pb	mg/kg	1	7	20	7	6	22
Nickel, Ni	mg/kg	0.5	3.3	4.4	9.2	5.3	5.9
Zinc, Zn	mg/kg	2	22	27	36	23	16

PARAMETER	UOM	LOR	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH60 0.0-0.1 SOIL - 14/12/2023 SE258536.027	BH61 0.0-0.1 SOIL - 14/12/2023 SE258536.028	BH62 0.0-0.1 SOIL - 14/12/2023 SE258536.029	BH63 0.0-0.1 SOIL - 14/12/2023 SE258536.030
Arsenic, As	mg/kg	1	5	4	4	3	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	11	12	6.6	8.0	5.5
Copper, Cu	mg/kg	0.5	7.6	17	42	19	28
Lead, Pb	mg/kg	1	18	10	6	7	6
Nickel, Ni	mg/kg	0.5	9.1	14	4.8	3.6	2.1
Zinc, Zn	mg/kg	2	29	43	37	11	15

PARAMETER	UOM	LOR	BH64 0.0-0.1 SOIL - 14/12/2023 SE258536.031	BH65 0.0-0.1 SOIL - 14/12/2023 SE258536.032	BH66 0.0-0.1 SOIL - 14/12/2023 SE258536.033	BH67 0.0-0.1 SOIL - 14/12/2023 SE258536.034	BH68 0.0-0.1 SOIL - 14/12/2023 SE258536.035
Arsenic, As	mg/kg	1	5	1	5	3	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	6.2	2.7	3.6	3.3	5.0
Copper, Cu	mg/kg	0.5	12	3.6	46	7.3	11
Lead, Pb	mg/kg	1	17	5	5	8	6
Nickel, Ni	mg/kg	0.5	12	1.6	11	2.5	2.1
Zinc, Zn	mg/kg	2	23	6.4	61	5.9	7.7

PARAMETER	UOM	LOR	BH69 0.0-0.1 SOIL - 14/12/2023 SE258536.036	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037	BH71 0.0-0.1 SOIL - 14/12/2023 SE258536.038	BH72 0.0-0.1 SOIL - 14/12/2023 SE258536.039	BH73 0.0-0.1 SOIL - 14/12/2023 SE258536.040
Arsenic, As	mg/kg	1	7	5	11	3	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	6.9	8.9	5.2	11	8.9
Copper, Cu	mg/kg	0.5	25	14	65	14	3.1
Lead, Pb	mg/kg	1	10	11	8	9	6
Nickel, Ni	mg/kg	0.5	5.5	6.6	9.0	3.1	3.5
Zinc, Zn	mg/kg	2	26	31	48	15	13

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 21/12/2023

(continued)

PARAMETER	UOM	LOR	BH74 0.0-0.1 SOIL - 14/12/2023 SE258536.041	BH75 0.0-0.1 SOIL - 14/12/2023 SE258536.042	BH76 0.0-0.1 SOIL - 14/12/2023 SE258536.043	BH77 0.0-0.1 SOIL - 14/12/2023 SE258536.044	QC1 SOIL - 14/12/2023 SE258536.045
Arsenic, As	mg/kg	1	2	2	7	3	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	10	11	8.1	7.0
Copper, Cu	mg/kg	0.5	13	3.5	55	11	7.6
Lead, Pb	mg/kg	1	7	7	7	8	12
Nickel, Ni	mg/kg	0.5	6.0	2.7	3.8	2.9	5.0
Zinc, Zn	mg/kg	2	18	7.9	28	8.3	23

PARAMETER	UOM	LOR	QC3 SOIL - 14/12/2023 SE258536.046	QC5 SOIL - 14/12/2023 SE258536.047	QC7 SOIL - 14/12/2023 SE258536.048
Arsenic, As	mg/kg	1	8	4	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	91	14	8.0
Copper, Cu	mg/kg	0.5	67	23	12
Lead, Pb	mg/kg	1	7	10	7
Nickel, Ni	mg/kg	0.5	61	16	3.0
Zinc, Zn	mg/kg	2	150	49	8.2

Mercury in Soil [AN312] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH34 0.0-0.1 SOIL - 13/12/2023 SE258536.001	BH35 0.0-0.1 SOIL - 13/12/2023 SE258536.002	BH36 0.0-0.1 SOIL - 13/12/2023 SE258536.003	BH37 0.0-0.1 SOIL - 13/12/2023 SE258536.004	BH38 0.0-0.1 SOIL - 13/12/2023 SE258536.005
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH39 0.0-0.1 SOIL - 13/12/2023 SE258536.006	BH40 0.0-0.1 SOIL - 13/12/2023 SE258536.007	BH41 0.0-0.1 SOIL - 13/12/2023 SE258536.008	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH43 0.0-0.1 SOIL - 13/12/2023 SE258536.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH44 0.0-0.1 SOIL - 13/12/2023 SE258536.011	BH45 0.0-0.1 SOIL - 13/12/2023 SE258536.012	BH46 0.0-0.1 SOIL - 13/12/2023 SE258536.013	BH47 0.0-0.1 SOIL - 13/12/2023 SE258536.014	BH48 0.0-0.1 SOIL - 13/12/2023 SE258536.015
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH49 0.0-0.1 SOIL - 13/12/2023 SE258536.016	BH50 0.0-0.1 SOIL - 13/12/2023 SE258536.017	BH51 0.0-0.1 SOIL - 13/12/2023 SE258536.018	BH52 0.0-0.1 SOIL - 13/12/2023 SE258536.019	BH53 0.0-0.1 SOIL - 13/12/2023 SE258536.020
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH54 0.0-0.1 SOIL - 13/12/2023 SE258536.021	BH55 0.0-0.1 SOIL - 13/12/2023 SE258536.022	BH56 0.0-0.1 SOIL - 13/12/2023 SE258536.023	BH57 0.0-0.1 SOIL - 13/12/2023 SE258536.024	BH58 0.0-0.1 SOIL - 14/12/2023 SE258536.025
Mercury	mg/kg	0.05	<0.05	**0.05**	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH60 0.0-0.1 SOIL - 14/12/2023 SE258536.027	BH61 0.0-0.1 SOIL - 14/12/2023 SE258536.028	BH62 0.0-0.1 SOIL - 14/12/2023 SE258536.029	BH63 0.0-0.1 SOIL - 14/12/2023 SE258536.030
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH64 0.0-0.1 SOIL - 14/12/2023 SE258536.031	BH65 0.0-0.1 SOIL - 14/12/2023 SE258536.032	BH66 0.0-0.1 SOIL - 14/12/2023 SE258536.033	BH67 0.0-0.1 SOIL - 14/12/2023 SE258536.034	BH68 0.0-0.1 SOIL - 14/12/2023 SE258536.035
Mercury	mg/kg	0.05	**0.05**	<0.05	<0.05	<0.05	<0.05

Mercury in Soil [AN312] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH69 0.0-0.1 SOIL - 14/12/2023 SE258536.036	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037	BH71 0.0-0.1 SOIL - 14/12/2023 SE258536.038	BH72 0.0-0.1 SOIL - 14/12/2023 SE258536.039	BH73 0.0-0.1 SOIL - 14/12/2023 SE258536.040
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH74 0.0-0.1 SOIL - 14/12/2023 SE258536.041	BH75 0.0-0.1 SOIL - 14/12/2023 SE258536.042	BH76 0.0-0.1 SOIL - 14/12/2023 SE258536.043	BH77 0.0-0.1 SOIL - 14/12/2023 SE258536.044	QC1 SOIL - 14/12/2023 SE258536.045
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	QC3 SOIL - 14/12/2023 SE258536.046	QC5 SOIL - 14/12/2023 SE258536.047	QC7 SOIL - 14/12/2023 SE258536.048
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05

Moisture Content [AN002] Tested: 21/12/2023

PARAMETER	UOM	LOR	BH34 0.0-0.1 SOIL - 13/12/2023 SE258536.001	BH35 0.0-0.1 SOIL - 13/12/2023 SE258536.002	BH36 0.0-0.1 SOIL - 13/12/2023 SE258536.003	BH37 0.0-0.1 SOIL - 13/12/2023 SE258536.004	BH38 0.0-0.1 SOIL - 13/12/2023 SE258536.005
% Moisture	%w/w	1	25.4	24.4	25.3	17.1	18.0

PARAMETER	UOM	LOR	BH39 0.0-0.1 SOIL - 13/12/2023 SE258536.006	BH40 0.0-0.1 SOIL - 13/12/2023 SE258536.007	BH41 0.0-0.1 SOIL - 13/12/2023 SE258536.008	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH43 0.0-0.1 SOIL - 13/12/2023 SE258536.010
% Moisture	%w/w	1	33.2	31.0	27.4	20.8	21.5

PARAMETER	UOM	LOR	BH44 0.0-0.1 SOIL - 13/12/2023 SE258536.011	BH45 0.0-0.1 SOIL - 13/12/2023 SE258536.012	BH46 0.0-0.1 SOIL - 13/12/2023 SE258536.013	BH47 0.0-0.1 SOIL - 13/12/2023 SE258536.014	BH48 0.0-0.1 SOIL - 13/12/2023 SE258536.015
% Moisture	%w/w	1	29.5	15.3	27.3	18.3	22.9

PARAMETER	UOM	LOR	BH49 0.0-0.1 SOIL - 13/12/2023 SE258536.016	BH50 0.0-0.1 SOIL - 13/12/2023 SE258536.017	BH51 0.0-0.1 SOIL - 13/12/2023 SE258536.018	BH52 0.0-0.1 SOIL - 13/12/2023 SE258536.019	BH53 0.0-0.1 SOIL - 13/12/2023 SE258536.020
% Moisture	%w/w	1	10.4	13.2	28.6	33.2	20.8

PARAMETER	UOM	LOR	BH54 0.0-0.1 SOIL - 13/12/2023 SE258536.021	BH55 0.0-0.1 SOIL - 13/12/2023 SE258536.022	BH56 0.0-0.1 SOIL - 13/12/2023 SE258536.023	BH57 0.0-0.1 SOIL - 13/12/2023 SE258536.024	BH58 0.0-0.1 SOIL - 14/12/2023 SE258536.025
% Moisture	%w/w	1	22.2	29.5	23.3	29.3	16.7

PARAMETER	UOM	LOR	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH60 0.0-0.1 SOIL - 14/12/2023 SE258536.027	BH61 0.0-0.1 SOIL - 14/12/2023 SE258536.028	BH62 0.0-0.1 SOIL - 14/12/2023 SE258536.029	BH63 0.0-0.1 SOIL - 14/12/2023 SE258536.030
% Moisture	%w/w	1	17.3	18.2	28.2	24.5	33.3

PARAMETER	UOM	LOR	BH64 0.0-0.1 SOIL - 14/12/2023 SE258536.031	BH65 0.0-0.1 SOIL - 14/12/2023 SE258536.032	BH66 0.0-0.1 SOIL - 14/12/2023 SE258536.033	BH67 0.0-0.1 SOIL - 14/12/2023 SE258536.034	BH68 0.0-0.1 SOIL - 14/12/2023 SE258536.035
% Moisture	%w/w	1	28.0	23.8	22.4	28.5	17.5

Moisture Content [AN002] Tested: 21/12/2023 (continued)

PARAMETER	UOM	LOR	BH69 0.0-0.1 SOIL - 14/12/2023 SE258536.036	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037	BH71 0.0-0.1 SOIL - 14/12/2023 SE258536.038	BH72 0.0-0.1 SOIL - 14/12/2023 SE258536.039	BH73 0.0-0.1 SOIL - 14/12/2023 SE258536.040
% Moisture	%w/w	1	26.1	23.1	20.1	25.3	26.6

PARAMETER	UOM	LOR	BH74 0.0-0.1 SOIL - 14/12/2023 SE258536.041	BH75 0.0-0.1 SOIL - 14/12/2023 SE258536.042	BH76 0.0-0.1 SOIL - 14/12/2023 SE258536.043	BH77 0.0-0.1 SOIL - 14/12/2023 SE258536.044	QC1 SOIL - 14/12/2023 SE258536.045
% Moisture	%w/w	1	19.5	20.7	19.1	24.3	31.0

PARAMETER	UOM	LOR	QC3 SOIL - 14/12/2023 SE258536.046	QC5 SOIL - 14/12/2023 SE258536.047	QC7 SOIL - 14/12/2023 SE258536.048
% Moisture	%w/w	1	35.8	17.4	26.8

Particle sizing of soils by sieving [AN005] Tested: 5/1/2024

PARAMETER	UOM	LOR	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037
Passing 75µm*	%w/w	1	<1	**41**	**10**
Retained 75µm*	%w/w	1	**99**	**59**	**90**

Particle sizing of soils <75µm by hydrometer [AN005] Tested: 5/1/2024

PARAMETER	UOM	LOR	BH42 0.0-0.1 SOIL - 13/12/2023 SE258536.009	BH59 0.0-0.1 SOIL - 14/12/2023 SE258536.026	BH70 0.0-0.1 SOIL - 14/12/2023 SE258536.037
Clay (<0.002mm)*	%w/w	0.1	<0.1	**7.0**	**1.0**

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.
AN005	The particle size distribution of a soil is determined by wet sieving, using a maximum of 900 mL of deionised water to sieve all fractions down to 75 µm. Referenced to AS1289.3.6.1 and AS1141.11.
AN005	Following wet sieving of the sample,(particles smaller than 75 µm) a dispersing solution is added and a hydrometer is used to measure sedimentation. Soil density is determined and the percentage of each size fraction calculated. Referenced to AS1289.3.6.3.
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.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN122	Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g.
AN122	The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100. ESP can be used to categorise the sodicity of the soil as below: ESP < 6% non-sodic ESP 6-15% sodic ESP >15% strongly sodic Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.-
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).
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.

FOOTNOTES

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

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

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

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

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

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

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

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

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

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

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STATEMENT OF QA/QC PERFORMANCE

SE258536 R0

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	48

LABORATORY DETAILS

Manager	Huong Crawford
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	**SE258536 R0**
Date Received	20 Dec 2023
Date Reported	19 Jan 2024

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)	3 items
	pH in soil (1:5)	3 items
Analysis Date	Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)	3 items
	Mercury in Soil	48 items
	Moisture Content	48 items
	VOC's in Soil	47 items
	Volatile Petroleum Hydrocarbons in Soil	70 items
Surrogate	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	1 item
	VOC's in Soil	3 items
	Volatile Petroleum Hydrocarbons in Soil	3 items
Duplicate	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
Matrix Spike	TRH (Total Recoverable Hydrocarbons) in Soil	5 items
	VOC's in Soil	1 item

There are more than 15 quality objective exceedences. Please see report for details

SAMPLE SUMMARY

Sample counts by matrix	48 Soil	Type of documentation received	COC
Date documentation received	20/12/2023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.8°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE258536 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

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH42 0.0-0.1	SE258536.009	LB301571	13 Dec 2023	20 Dec 2023	10 Jan 2024	18 Jan 2024†	10 Jan 2024	19 Jan 2024†
BH59 0.0-0.1	SE258536.026	LB301571	14 Dec 2023	20 Dec 2023	11 Jan 2024	18 Jan 2024†	11 Jan 2024	19 Jan 2024†
BH70 0.0-0.1	SE258536.037	LB301571	14 Dec 2023	20 Dec 2023	11 Jan 2024	18 Jan 2024†	11 Jan 2024	19 Jan 2024†

Mercury in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH34 0.0-0.1	SE258536.001	LB300387	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH35 0.0-0.1	SE258536.002	LB300387	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH36 0.0-0.1	SE258536.003	LB300387	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH37 0.0-0.1	SE258536.004	LB300387	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH38 0.0-0.1	SE258536.005	LB300387	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH39 0.0-0.1	SE258536.006	LB300387	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH40 0.0-0.1	SE258536.007	LB300387	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH41 0.0-0.1	SE258536.008	LB300387	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH42 0.0-0.1	SE258536.009	LB300387	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH43 0.0-0.1	SE258536.010	LB300387	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH44 0.0-0.1	SE258536.011	LB300387	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH45 0.0-0.1	SE258536.012	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH46 0.0-0.1	SE258536.013	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH47 0.0-0.1	SE258536.014	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH48 0.0-0.1	SE258536.015	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH49 0.0-0.1	SE258536.016	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH50 0.0-0.1	SE258536.017	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH51 0.0-0.1	SE258536.018	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH52 0.0-0.1	SE258536.019	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH53 0.0-0.1	SE258536.020	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH54 0.0-0.1	SE258536.021	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH55 0.0-0.1	SE258536.022	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH56 0.0-0.1	SE258536.023	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH57 0.0-0.1	SE258536.024	LB300388	13 Dec 2023	20 Dec 2023	10 Jan 2024	21 Dec 2023	10 Jan 2024	16 Jan 2024†
BH58 0.0-0.1	SE258536.025	LB300388	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	16 Jan 2024†
BH59 0.0-0.1	SE258536.026	LB300388	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	16 Jan 2024†
BH60 0.0-0.1	SE258536.027	LB300388	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	16 Jan 2024†
BH61 0.0-0.1	SE258536.028	LB300388	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	16 Jan 2024†
BH62 0.0-0.1	SE258536.029	LB300388	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	16 Jan 2024†
BH63 0.0-0.1	SE258536.030	LB300388	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	16 Jan 2024†
BH64 0.0-0.1	SE258536.031	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH65 0.0-0.1	SE258536.032	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH66 0.0-0.1	SE258536.033	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH67 0.0-0.1	SE258536.034	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH68 0.0-0.1	SE258536.035	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH69 0.0-0.1	SE258536.036	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH70 0.0-0.1	SE258536.037	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH71 0.0-0.1	SE258536.038	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH72 0.0-0.1	SE258536.039	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH73 0.0-0.1	SE258536.040	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH74 0.0-0.1	SE258536.041	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH75 0.0-0.1	SE258536.042	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH76 0.0-0.1	SE258536.043	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
BH77 0.0-0.1	SE258536.044	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
QC1	SE258536.045	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
QC3	SE258536.046	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
QC5	SE258536.047	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†
QC7	SE258536.048	LB300389	14 Dec 2023	20 Dec 2023	11 Jan 2024	21 Dec 2023	11 Jan 2024	17 Jan 2024†

Moisture Content

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH34 0.0-0.1	SE258536.001	LB300377	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH35 0.0-0.1	SE258536.002	LB300377	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH36 0.0-0.1	SE258536.003	LB300377	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH37 0.0-0.1	SE258536.004	LB300377	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†

HOLDING TIME SUMMARY

SE258536 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

Moisture Content (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH38 0.0-0.1	SE258536.005	LB300377	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH39 0.0-0.1	SE258536.006	LB300377	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH40 0.0-0.1	SE258536.007	LB300377	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH41 0.0-0.1	SE258536.008	LB300377	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH42 0.0-0.1	SE258536.009	LB300377	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH43 0.0-0.1	SE258536.010	LB300377	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH44 0.0-0.1	SE258536.011	LB300377	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH45 0.0-0.1	SE258536.012	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH46 0.0-0.1	SE258536.013	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH47 0.0-0.1	SE258536.014	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH48 0.0-0.1	SE258536.015	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH49 0.0-0.1	SE258536.016	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH50 0.0-0.1	SE258536.017	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH51 0.0-0.1	SE258536.018	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH52 0.0-0.1	SE258536.019	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH53 0.0-0.1	SE258536.020	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH54 0.0-0.1	SE258536.021	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH55 0.0-0.1	SE258536.022	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH56 0.0-0.1	SE258536.023	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH57 0.0-0.1	SE258536.024	LB300378	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH58 0.0-0.1	SE258536.025	LB300378	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH59 0.0-0.1	SE258536.026	LB300378	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH60 0.0-0.1	SE258536.027	LB300378	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH61 0.0-0.1	SE258536.028	LB300378	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH62 0.0-0.1	SE258536.029	LB300378	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH63 0.0-0.1	SE258536.030	LB300378	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH64 0.0-0.1	SE258536.031	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH65 0.0-0.1	SE258536.032	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH66 0.0-0.1	SE258536.033	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH67 0.0-0.1	SE258536.034	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH68 0.0-0.1	SE258536.035	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH69 0.0-0.1	SE258536.036	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH70 0.0-0.1	SE258536.037	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH71 0.0-0.1	SE258536.038	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH72 0.0-0.1	SE258536.039	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH73 0.0-0.1	SE258536.040	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH74 0.0-0.1	SE258536.041	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH75 0.0-0.1	SE258536.042	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH76 0.0-0.1	SE258536.043	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
BH77 0.0-0.1	SE258536.044	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
QC1	SE258536.045	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
QC3	SE258536.046	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
QC5	SE258536.047	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†
QC7	SE258536.048	LB300379	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	26 Dec 2023	27 Dec 2023†

OC Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH34 0.0-0.1	SE258536.001	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH35 0.0-0.1	SE258536.002	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH36 0.0-0.1	SE258536.003	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH37 0.0-0.1	SE258536.004	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH38 0.0-0.1	SE258536.005	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH39 0.0-0.1	SE258536.006	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH40 0.0-0.1	SE258536.007	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH41 0.0-0.1	SE258536.008	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH42 0.0-0.1	SE258536.009	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH43 0.0-0.1	SE258536.010	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH44 0.0-0.1	SE258536.011	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH45 0.0-0.1	SE258536.012	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH46 0.0-0.1	SE258536.013	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024

HOLDING TIME SUMMARY

SE258536 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

OC Pesticides in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH47 0.0-0.1	SE258536.014	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH48 0.0-0.1	SE258536.015	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH49 0.0-0.1	SE258536.016	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH50 0.0-0.1	SE258536.017	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH51 0.0-0.1	SE258536.018	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH52 0.0-0.1	SE258536.019	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH53 0.0-0.1	SE258536.020	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH54 0.0-0.1	SE258536.021	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH55 0.0-0.1	SE258536.022	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH56 0.0-0.1	SE258536.023	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH57 0.0-0.1	SE258536.024	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH58 0.0-0.1	SE258536.025	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH59 0.0-0.1	SE258536.026	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH60 0.0-0.1	SE258536.027	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH61 0.0-0.1	SE258536.028	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH62 0.0-0.1	SE258536.029	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH63 0.0-0.1	SE258536.030	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH64 0.0-0.1	SE258536.031	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH65 0.0-0.1	SE258536.032	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH66 0.0-0.1	SE258536.033	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH67 0.0-0.1	SE258536.034	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH68 0.0-0.1	SE258536.035	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH69 0.0-0.1	SE258536.036	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH70 0.0-0.1	SE258536.037	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH71 0.0-0.1	SE258536.038	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH72 0.0-0.1	SE258536.039	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH73 0.0-0.1	SE258536.040	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH74 0.0-0.1	SE258536.041	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH75 0.0-0.1	SE258536.042	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH76 0.0-0.1	SE258536.043	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH77 0.0-0.1	SE258536.044	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC1	SE258536.045	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC3	SE258536.046	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC5	SE258536.047	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC7	SE258536.048	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024

OP Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH34 0.0-0.1	SE258536.001	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH35 0.0-0.1	SE258536.002	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH36 0.0-0.1	SE258536.003	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH37 0.0-0.1	SE258536.004	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH38 0.0-0.1	SE258536.005	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH39 0.0-0.1	SE258536.006	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH40 0.0-0.1	SE258536.007	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH41 0.0-0.1	SE258536.008	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH42 0.0-0.1	SE258536.009	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH43 0.0-0.1	SE258536.010	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH44 0.0-0.1	SE258536.011	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH45 0.0-0.1	SE258536.012	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH46 0.0-0.1	SE258536.013	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH47 0.0-0.1	SE258536.014	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH48 0.0-0.1	SE258536.015	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH49 0.0-0.1	SE258536.016	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH50 0.0-0.1	SE258536.017	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH51 0.0-0.1	SE258536.018	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH52 0.0-0.1	SE258536.019	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH53 0.0-0.1	SE258536.020	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH54 0.0-0.1	SE258536.021	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH55 0.0-0.1	SE258536.022	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024

HOLDING TIME SUMMARY

SE258536 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

OP Pesticides in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH56 0.0-0.1	SE258536.023	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH57 0.0-0.1	SE258536.024	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH58 0.0-0.1	SE258536.025	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH59 0.0-0.1	SE258536.026	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH60 0.0-0.1	SE258536.027	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH61 0.0-0.1	SE258536.028	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH62 0.0-0.1	SE258536.029	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH63 0.0-0.1	SE258536.030	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH64 0.0-0.1	SE258536.031	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH65 0.0-0.1	SE258536.032	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH66 0.0-0.1	SE258536.033	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH67 0.0-0.1	SE258536.034	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH68 0.0-0.1	SE258536.035	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH69 0.0-0.1	SE258536.036	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH70 0.0-0.1	SE258536.037	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH71 0.0-0.1	SE258536.038	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH72 0.0-0.1	SE258536.039	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH73 0.0-0.1	SE258536.040	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH74 0.0-0.1	SE258536.041	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH75 0.0-0.1	SE258536.042	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH76 0.0-0.1	SE258536.043	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH77 0.0-0.1	SE258536.044	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC1	SE258536.045	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC3	SE258536.046	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC5	SE258536.047	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC7	SE258536.048	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024

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
BH34 0.0-0.1	SE258536.001	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH35 0.0-0.1	SE258536.002	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH36 0.0-0.1	SE258536.003	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH37 0.0-0.1	SE258536.004	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH38 0.0-0.1	SE258536.005	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH39 0.0-0.1	SE258536.006	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH40 0.0-0.1	SE258536.007	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH41 0.0-0.1	SE258536.008	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH42 0.0-0.1	SE258536.009	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH43 0.0-0.1	SE258536.010	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH44 0.0-0.1	SE258536.011	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH45 0.0-0.1	SE258536.012	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH46 0.0-0.1	SE258536.013	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH47 0.0-0.1	SE258536.014	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH48 0.0-0.1	SE258536.015	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH49 0.0-0.1	SE258536.016	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH50 0.0-0.1	SE258536.017	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH51 0.0-0.1	SE258536.018	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH52 0.0-0.1	SE258536.019	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH53 0.0-0.1	SE258536.020	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH54 0.0-0.1	SE258536.021	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH55 0.0-0.1	SE258536.022	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH56 0.0-0.1	SE258536.023	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH57 0.0-0.1	SE258536.024	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH58 0.0-0.1	SE258536.025	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH59 0.0-0.1	SE258536.026	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH60 0.0-0.1	SE258536.027	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH61 0.0-0.1	SE258536.028	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH62 0.0-0.1	SE258536.029	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH63 0.0-0.1	SE258536.030	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH64 0.0-0.1	SE258536.031	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024

HOLDING TIME SUMMARY

SE258536 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

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
BH65 0.0-0.1	SE258536.032	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH66 0.0-0.1	SE258536.033	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH67 0.0-0.1	SE258536.034	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH68 0.0-0.1	SE258536.035	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH69 0.0-0.1	SE258536.036	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH70 0.0-0.1	SE258536.037	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH71 0.0-0.1	SE258536.038	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH72 0.0-0.1	SE258536.039	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH73 0.0-0.1	SE258536.040	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH74 0.0-0.1	SE258536.041	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH75 0.0-0.1	SE258536.042	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH76 0.0-0.1	SE258536.043	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH77 0.0-0.1	SE258536.044	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC1	SE258536.045	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC3	SE258536.046	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC5	SE258536.047	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC7	SE258536.048	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024

PCBs in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH34 0.0-0.1	SE258536.001	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH35 0.0-0.1	SE258536.002	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH36 0.0-0.1	SE258536.003	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH37 0.0-0.1	SE258536.004	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH38 0.0-0.1	SE258536.005	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH39 0.0-0.1	SE258536.006	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH40 0.0-0.1	SE258536.007	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH41 0.0-0.1	SE258536.008	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH42 0.0-0.1	SE258536.009	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH43 0.0-0.1	SE258536.010	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH44 0.0-0.1	SE258536.011	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH45 0.0-0.1	SE258536.012	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH46 0.0-0.1	SE258536.013	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH47 0.0-0.1	SE258536.014	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH48 0.0-0.1	SE258536.015	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH49 0.0-0.1	SE258536.016	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH50 0.0-0.1	SE258536.017	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH51 0.0-0.1	SE258536.018	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH52 0.0-0.1	SE258536.019	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH53 0.0-0.1	SE258536.020	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH54 0.0-0.1	SE258536.021	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH55 0.0-0.1	SE258536.022	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH56 0.0-0.1	SE258536.023	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH57 0.0-0.1	SE258536.024	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH58 0.0-0.1	SE258536.025	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH59 0.0-0.1	SE258536.026	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH60 0.0-0.1	SE258536.027	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH61 0.0-0.1	SE258536.028	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH62 0.0-0.1	SE258536.029	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH63 0.0-0.1	SE258536.030	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH64 0.0-0.1	SE258536.031	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH65 0.0-0.1	SE258536.032	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH66 0.0-0.1	SE258536.033	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH67 0.0-0.1	SE258536.034	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH68 0.0-0.1	SE258536.035	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH69 0.0-0.1	SE258536.036	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH70 0.0-0.1	SE258536.037	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH71 0.0-0.1	SE258536.038	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH72 0.0-0.1	SE258536.039	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH73 0.0-0.1	SE258536.040	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024

HOLDING TIME SUMMARY

SE258536 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

PCBs in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH74 0.0-0.1	SE258536.041	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH75 0.0-0.1	SE258536.042	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH76 0.0-0.1	SE258536.043	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
BH77 0.0-0.1	SE258536.044	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC1	SE258536.045	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC3	SE258536.046	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC5	SE258536.047	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024
QC7	SE258536.048	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	02 Jan 2024

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH42 0.0-0.1	SE258536.009	LB301339	13 Dec 2023	20 Dec 2023	20 Dec 2023	16 Jan 2024†	17 Jan 2024	16 Jan 2024
BH59 0.0-0.1	SE258536.026	LB301339	14 Dec 2023	20 Dec 2023	21 Dec 2023	16 Jan 2024†	17 Jan 2024	16 Jan 2024
BH70 0.0-0.1	SE258536.037	LB301339	14 Dec 2023	20 Dec 2023	21 Dec 2023	16 Jan 2024†	17 Jan 2024	16 Jan 2024

Speciated Phenols in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH34 0.0-0.1	SE258536.001	LB300312	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH35 0.0-0.1	SE258536.002	LB300312	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH36 0.0-0.1	SE258536.003	LB300312	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH37 0.0-0.1	SE258536.004	LB300312	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH38 0.0-0.1	SE258536.005	LB300312	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH39 0.0-0.1	SE258536.006	LB300312	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH40 0.0-0.1	SE258536.007	LB300312	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH41 0.0-0.1	SE258536.008	LB300312	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH42 0.0-0.1	SE258536.009	LB300312	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH43 0.0-0.1	SE258536.010	LB300312	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH44 0.0-0.1	SE258536.011	LB300312	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH45 0.0-0.1	SE258536.012	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH46 0.0-0.1	SE258536.013	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH47 0.0-0.1	SE258536.014	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH48 0.0-0.1	SE258536.015	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH49 0.0-0.1	SE258536.016	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH50 0.0-0.1	SE258536.017	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH51 0.0-0.1	SE258536.018	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH52 0.0-0.1	SE258536.019	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH53 0.0-0.1	SE258536.020	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH54 0.0-0.1	SE258536.021	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH55 0.0-0.1	SE258536.022	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH56 0.0-0.1	SE258536.023	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH57 0.0-0.1	SE258536.024	LB300313	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH58 0.0-0.1	SE258536.025	LB300313	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH59 0.0-0.1	SE258536.026	LB300313	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH60 0.0-0.1	SE258536.027	LB300313	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH61 0.0-0.1	SE258536.028	LB300313	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH62 0.0-0.1	SE258536.029	LB300313	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH63 0.0-0.1	SE258536.030	LB300313	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH64 0.0-0.1	SE258536.031	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH65 0.0-0.1	SE258536.032	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH66 0.0-0.1	SE258536.033	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH67 0.0-0.1	SE258536.034	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH68 0.0-0.1	SE258536.035	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH69 0.0-0.1	SE258536.036	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH70 0.0-0.1	SE258536.037	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH71 0.0-0.1	SE258536.038	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH72 0.0-0.1	SE258536.039	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH73 0.0-0.1	SE258536.040	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH74 0.0-0.1	SE258536.041	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH75 0.0-0.1	SE258536.042	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH76 0.0-0.1	SE258536.043	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
BH77 0.0-0.1	SE258536.044	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023

HOLDING TIME SUMMARY

SE258536 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

Speciated Phenols in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
QC1	SE258536.045	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
QC3	SE258536.046	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
QC5	SE258536.047	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023
QC7	SE258536.048	LB300314	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	28 Dec 2023

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
BH34 0.0-0.1	SE258536.001	LB300382	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH35 0.0-0.1	SE258536.002	LB300382	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH36 0.0-0.1	SE258536.003	LB300382	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH37 0.0-0.1	SE258536.004	LB300382	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH38 0.0-0.1	SE258536.005	LB300382	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH39 0.0-0.1	SE258536.006	LB300382	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH40 0.0-0.1	SE258536.007	LB300382	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH41 0.0-0.1	SE258536.008	LB300382	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH42 0.0-0.1	SE258536.009	LB300382	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH43 0.0-0.1	SE258536.010	LB300382	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH44 0.0-0.1	SE258536.011	LB300382	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH45 0.0-0.1	SE258536.012	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH46 0.0-0.1	SE258536.013	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH47 0.0-0.1	SE258536.014	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH48 0.0-0.1	SE258536.015	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH49 0.0-0.1	SE258536.016	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH50 0.0-0.1	SE258536.017	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH51 0.0-0.1	SE258536.018	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH52 0.0-0.1	SE258536.019	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH53 0.0-0.1	SE258536.020	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH54 0.0-0.1	SE258536.021	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH55 0.0-0.1	SE258536.022	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH56 0.0-0.1	SE258536.023	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH57 0.0-0.1	SE258536.024	LB300383	13 Dec 2023	20 Dec 2023	10 Jun 2024	21 Dec 2023	10 Jun 2024	16 Jan 2024
BH58 0.0-0.1	SE258536.025	LB300383	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	16 Jan 2024
BH59 0.0-0.1	SE258536.026	LB300383	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	16 Jan 2024
BH60 0.0-0.1	SE258536.027	LB300383	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	16 Jan 2024
BH61 0.0-0.1	SE258536.028	LB300383	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	16 Jan 2024
BH62 0.0-0.1	SE258536.029	LB300383	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	16 Jan 2024
BH63 0.0-0.1	SE258536.030	LB300383	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	16 Jan 2024
BH64 0.0-0.1	SE258536.031	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH65 0.0-0.1	SE258536.032	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH66 0.0-0.1	SE258536.033	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH67 0.0-0.1	SE258536.034	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH68 0.0-0.1	SE258536.035	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH69 0.0-0.1	SE258536.036	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH70 0.0-0.1	SE258536.037	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH71 0.0-0.1	SE258536.038	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH72 0.0-0.1	SE258536.039	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH73 0.0-0.1	SE258536.040	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH74 0.0-0.1	SE258536.041	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH75 0.0-0.1	SE258536.042	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH76 0.0-0.1	SE258536.043	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
BH77 0.0-0.1	SE258536.044	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
QC1	SE258536.045	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
QC3	SE258536.046	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
QC5	SE258536.047	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024
QC7	SE258536.048	LB300384	14 Dec 2023	20 Dec 2023	11 Jun 2024	21 Dec 2023	11 Jun 2024	17 Jan 2024

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
BH34 0.0-0.1	SE258536.001	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH35 0.0-0.1	SE258536.002	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH36 0.0-0.1	SE258536.003	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023

HOLDING TIME SUMMARY

SE258536 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

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH37 0.0-0.1	SE258536.004	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH38 0.0-0.1	SE258536.005	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH39 0.0-0.1	SE258536.006	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH40 0.0-0.1	SE258536.007	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH41 0.0-0.1	SE258536.008	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH42 0.0-0.1	SE258536.009	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH43 0.0-0.1	SE258536.010	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH44 0.0-0.1	SE258536.011	LB300367	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	29 Dec 2023
BH45 0.0-0.1	SE258536.012	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH46 0.0-0.1	SE258536.013	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH47 0.0-0.1	SE258536.014	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH48 0.0-0.1	SE258536.015	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH49 0.0-0.1	SE258536.016	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH50 0.0-0.1	SE258536.017	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH51 0.0-0.1	SE258536.018	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH52 0.0-0.1	SE258536.019	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH53 0.0-0.1	SE258536.020	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH54 0.0-0.1	SE258536.021	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH55 0.0-0.1	SE258536.022	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH56 0.0-0.1	SE258536.023	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH57 0.0-0.1	SE258536.024	LB300368	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH58 0.0-0.1	SE258536.025	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH59 0.0-0.1	SE258536.026	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH60 0.0-0.1	SE258536.027	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH61 0.0-0.1	SE258536.028	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH62 0.0-0.1	SE258536.029	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH63 0.0-0.1	SE258536.030	LB300368	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH64 0.0-0.1	SE258536.031	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH65 0.0-0.1	SE258536.032	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH66 0.0-0.1	SE258536.033	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH67 0.0-0.1	SE258536.034	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH68 0.0-0.1	SE258536.035	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH69 0.0-0.1	SE258536.036	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH70 0.0-0.1	SE258536.037	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH71 0.0-0.1	SE258536.038	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH72 0.0-0.1	SE258536.039	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH73 0.0-0.1	SE258536.040	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH74 0.0-0.1	SE258536.041	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH75 0.0-0.1	SE258536.042	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH76 0.0-0.1	SE258536.043	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
BH77 0.0-0.1	SE258536.044	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
QC1	SE258536.045	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
QC3	SE258536.046	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	04 Jan 2024
QC5	SE258536.047	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024
QC7	SE258536.048	LB300369	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	30 Jan 2024	03 Jan 2024

VOC's in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH34 0.0-0.1	SE258536.001	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH35 0.0-0.1	SE258536.002	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH36 0.0-0.1	SE258536.003	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH37 0.0-0.1	SE258536.004	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH38 0.0-0.1	SE258536.005	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH39 0.0-0.1	SE258536.006	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH40 0.0-0.1	SE258536.007	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH41 0.0-0.1	SE258536.008	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH42 0.0-0.1	SE258536.009	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH43 0.0-0.1	SE258536.010	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH44 0.0-0.1	SE258536.011	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH45 0.0-0.1	SE258536.012	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†

HOLDING TIME SUMMARY

SE258536 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

VOC's in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH46 0.0-0.1	SE258536.013	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH47 0.0-0.1	SE258536.014	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH48 0.0-0.1	SE258536.015	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH49 0.0-0.1	SE258536.016	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH50 0.0-0.1	SE258536.017	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH51 0.0-0.1	SE258536.018	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH52 0.0-0.1	SE258536.019	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH53 0.0-0.1	SE258536.020	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH54 0.0-0.1	SE258536.021	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH55 0.0-0.1	SE258536.022	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH56 0.0-0.1	SE258536.023	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH57 0.0-0.1	SE258536.024	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH58 0.0-0.1	SE258536.025	LB300373	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH59 0.0-0.1	SE258536.026	LB300373	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH60 0.0-0.1	SE258536.027	LB300373	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH61 0.0-0.1	SE258536.028	LB300373	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH62 0.0-0.1	SE258536.029	LB300373	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH63 0.0-0.1	SE258536.030	LB300373	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH64 0.0-0.1	SE258536.031	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH65 0.0-0.1	SE258536.032	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH66 0.0-0.1	SE258536.033	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH67 0.0-0.1	SE258536.034	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH68 0.0-0.1	SE258536.035	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH69 0.0-0.1	SE258536.036	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH70 0.0-0.1	SE258536.037	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH71 0.0-0.1	SE258536.038	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH72 0.0-0.1	SE258536.039	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH73 0.0-0.1	SE258536.040	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH74 0.0-0.1	SE258536.041	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH75 0.0-0.1	SE258536.042	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH76 0.0-0.1	SE258536.043	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH77 0.0-0.1	SE258536.044	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
QC1	SE258536.045	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
QC3	SE258536.046	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
QC5	SE258536.047	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
QC7	SE258536.048	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023

Volatile Petroleum Hydrocarbons in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH34 0.0-0.1	SE258536.001	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH35 0.0-0.1	SE258536.002	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH36 0.0-0.1	SE258536.003	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH37 0.0-0.1	SE258536.004	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH38 0.0-0.1	SE258536.005	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH39 0.0-0.1	SE258536.006	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH40 0.0-0.1	SE258536.007	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH41 0.0-0.1	SE258536.008	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH42 0.0-0.1	SE258536.009	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH43 0.0-0.1	SE258536.010	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH44 0.0-0.1	SE258536.011	LB300372	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH45 0.0-0.1	SE258536.012	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH46 0.0-0.1	SE258536.013	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH47 0.0-0.1	SE258536.014	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH48 0.0-0.1	SE258536.015	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH49 0.0-0.1	SE258536.016	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH50 0.0-0.1	SE258536.017	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH51 0.0-0.1	SE258536.018	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH52 0.0-0.1	SE258536.019	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH53 0.0-0.1	SE258536.020	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH54 0.0-0.1	SE258536.021	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†

HOLDING TIME SUMMARY

SE258536 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 Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH55 0.0-0.1	SE258536.022	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH56 0.0-0.1	SE258536.023	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH57 0.0-0.1	SE258536.024	LB300373	13 Dec 2023	20 Dec 2023	27 Dec 2023	21 Dec 2023	27 Dec 2023	28 Dec 2023†
BH58 0.0-0.1	SE258536.025	LB300373	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH59 0.0-0.1	SE258536.026	LB300373	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH60 0.0-0.1	SE258536.027	LB300373	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH61 0.0-0.1	SE258536.028	LB300373	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH62 0.0-0.1	SE258536.029	LB300373	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH63 0.0-0.1	SE258536.030	LB300373	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH64 0.0-0.1	SE258536.031	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH65 0.0-0.1	SE258536.032	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH66 0.0-0.1	SE258536.033	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH67 0.0-0.1	SE258536.034	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH68 0.0-0.1	SE258536.035	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH69 0.0-0.1	SE258536.036	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH70 0.0-0.1	SE258536.037	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH71 0.0-0.1	SE258536.038	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH72 0.0-0.1	SE258536.039	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH73 0.0-0.1	SE258536.040	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH74 0.0-0.1	SE258536.041	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH75 0.0-0.1	SE258536.042	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH76 0.0-0.1	SE258536.043	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
BH77 0.0-0.1	SE258536.044	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
QC1	SE258536.045	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
QC3	SE258536.046	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
QC5	SE258536.047	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023
QC7	SE258536.048	LB300374	14 Dec 2023	20 Dec 2023	28 Dec 2023	21 Dec 2023	28 Dec 2023	28 Dec 2023

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH34 0.0-0.1	SE258536.001	%	60 - 130%	128
	BH35 0.0-0.1	SE258536.002	%	60 - 130%	125
	BH36 0.0-0.1	SE258536.003	%	60 - 130%	104
	BH37 0.0-0.1	SE258536.004	%	60 - 130%	105
	BH38 0.0-0.1	SE258536.005	%	60 - 130%	103
	BH39 0.0-0.1	SE258536.006	%	60 - 130%	106
	BH40 0.0-0.1	SE258536.007	%	60 - 130%	111
	BH41 0.0-0.1	SE258536.008	%	60 - 130%	111
	BH42 0.0-0.1	SE258536.009	%	60 - 130%	110
	BH43 0.0-0.1	SE258536.010	%	60 - 130%	102
	BH44 0.0-0.1	SE258536.011	%	60 - 130%	103
	BH45 0.0-0.1	SE258536.012	%	60 - 130%	109
	BH46 0.0-0.1	SE258536.013	%	60 - 130%	102
	BH47 0.0-0.1	SE258536.014	%	60 - 130%	103
	BH48 0.0-0.1	SE258536.015	%	60 - 130%	101
	BH49 0.0-0.1	SE258536.016	%	60 - 130%	109
	BH50 0.0-0.1	SE258536.017	%	60 - 130%	110
	BH51 0.0-0.1	SE258536.018	%	60 - 130%	104
	BH52 0.0-0.1	SE258536.019	%	60 - 130%	118
	BH53 0.0-0.1	SE258536.020	%	60 - 130%	107
	BH54 0.0-0.1	SE258536.021	%	60 - 130%	110
	BH55 0.0-0.1	SE258536.022	%	60 - 130%	116
	BH56 0.0-0.1	SE258536.023	%	60 - 130%	106
	BH57 0.0-0.1	SE258536.024	%	60 - 130%	104
	BH58 0.0-0.1	SE258536.025	%	60 - 130%	111
	BH59 0.0-0.1	SE258536.026	%	60 - 130%	110
	BH60 0.0-0.1	SE258536.027	%	60 - 130%	107
	BH61 0.0-0.1	SE258536.028	%	60 - 130%	112
	BH62 0.0-0.1	SE258536.029	%	60 - 130%	112
	BH63 0.0-0.1	SE258536.030	%	60 - 130%	115
	BH64 0.0-0.1	SE258536.031	%	60 - 130%	116
	BH65 0.0-0.1	SE258536.032	%	60 - 130%	114
	BH66 0.0-0.1	SE258536.033	%	60 - 130%	114
	BH67 0.0-0.1	SE258536.034	%	60 - 130%	109
	BH68 0.0-0.1	SE258536.035	%	60 - 130%	101
	BH69 0.0-0.1	SE258536.036	%	60 - 130%	113
	BH70 0.0-0.1	SE258536.037	%	60 - 130%	106
	BH71 0.0-0.1	SE258536.038	%	60 - 130%	114
	BH72 0.0-0.1	SE258536.039	%	60 - 130%	117
	BH73 0.0-0.1	SE258536.040	%	60 - 130%	111
	BH74 0.0-0.1	SE258536.041	%	60 - 130%	107
	BH75 0.0-0.1	SE258536.042	%	60 - 130%	112
	BH76 0.0-0.1	SE258536.043	%	60 - 130%	111
	BH77 0.0-0.1	SE258536.044	%	60 - 130%	103
	QC1	SE258536.045	%	60 - 130%	107
	QC3	SE258536.046	%	60 - 130%	106
	QC5	SE258536.047	%	60 - 130%	120
	QC7	SE258536.048	%	60 - 130%	124

OP Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH34 0.0-0.1	SE258536.001	%	60 - 130%	102
	BH35 0.0-0.1	SE258536.002	%	60 - 130%	103
	BH36 0.0-0.1	SE258536.003	%	60 - 130%	108
	BH37 0.0-0.1	SE258536.004	%	60 - 130%	101
	BH38 0.0-0.1	SE258536.005	%	60 - 130%	99
	BH39 0.0-0.1	SE258536.006	%	60 - 130%	106
	BH40 0.0-0.1	SE258536.007	%	60 - 130%	100
	BH41 0.0-0.1	SE258536.008	%	60 - 130%	104
	BH42 0.0-0.1	SE258536.009	%	60 - 130%	100
	BH43 0.0-0.1	SE258536.010	%	60 - 130%	105

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH44 0.0-0.1	SE258536.011	%	60 - 130%	109
	BH45 0.0-0.1	SE258536.012	%	60 - 130%	104
	BH46 0.0-0.1	SE258536.013	%	60 - 130%	100
	BH47 0.0-0.1	SE258536.014	%	60 - 130%	100
	BH48 0.0-0.1	SE258536.015	%	60 - 130%	103
	BH49 0.0-0.1	SE258536.016	%	60 - 130%	93
	BH50 0.0-0.1	SE258536.017	%	60 - 130%	105
	BH51 0.0-0.1	SE258536.018	%	60 - 130%	98
	BH52 0.0-0.1	SE258536.019	%	60 - 130%	103
	BH53 0.0-0.1	SE258536.020	%	60 - 130%	96
	BH54 0.0-0.1	SE258536.021	%	60 - 130%	99
	BH55 0.0-0.1	SE258536.022	%	60 - 130%	105
	BH56 0.0-0.1	SE258536.023	%	60 - 130%	102
	BH57 0.0-0.1	SE258536.024	%	60 - 130%	98
	BH58 0.0-0.1	SE258536.025	%	60 - 130%	102
	BH59 0.0-0.1	SE258536.026	%	60 - 130%	96
	BH60 0.0-0.1	SE258536.027	%	60 - 130%	95
	BH61 0.0-0.1	SE258536.028	%	60 - 130%	77
	BH62 0.0-0.1	SE258536.029	%	60 - 130%	97
	BH63 0.0-0.1	SE258536.030	%	60 - 130%	99
	BH64 0.0-0.1	SE258536.031	%	60 - 130%	103
	BH65 0.0-0.1	SE258536.032	%	60 - 130%	101
	BH66 0.0-0.1	SE258536.033	%	60 - 130%	104
	BH67 0.0-0.1	SE258536.034	%	60 - 130%	103
	BH68 0.0-0.1	SE258536.035	%	60 - 130%	108
	BH69 0.0-0.1	SE258536.036	%	60 - 130%	105
	BH70 0.0-0.1	SE258536.037	%	60 - 130%	103
	BH71 0.0-0.1	SE258536.038	%	60 - 130%	102
	BH72 0.0-0.1	SE258536.039	%	60 - 130%	103
	BH73 0.0-0.1	SE258536.040	%	60 - 130%	101
	BH74 0.0-0.1	SE258536.041	%	60 - 130%	106
	BH75 0.0-0.1	SE258536.042	%	60 - 130%	104
	BH76 0.0-0.1	SE258536.043	%	60 - 130%	106
	BH77 0.0-0.1	SE258536.044	%	60 - 130%	99
	QC1	SE258536.045	%	60 - 130%	101
	QC3	SE258536.046	%	60 - 130%	104
	QC5	SE258536.047	%	60 - 130%	104
	QC7	SE258536.048	%	60 - 130%	105
d14-p-terphenyl (Surrogate)	BH34 0.0-0.1	SE258536.001	%	60 - 130%	100
	BH35 0.0-0.1	SE258536.002	%	60 - 130%	102
	BH36 0.0-0.1	SE258536.003	%	60 - 130%	106
	BH37 0.0-0.1	SE258536.004	%	60 - 130%	97
	BH38 0.0-0.1	SE258536.005	%	60 - 130%	97
	BH39 0.0-0.1	SE258536.006	%	60 - 130%	104
	BH40 0.0-0.1	SE258536.007	%	60 - 130%	100
	BH41 0.0-0.1	SE258536.008	%	60 - 130%	99
	BH42 0.0-0.1	SE258536.009	%	60 - 130%	96
	BH43 0.0-0.1	SE258536.010	%	60 - 130%	105
	BH44 0.0-0.1	SE258536.011	%	60 - 130%	106
	BH45 0.0-0.1	SE258536.012	%	60 - 130%	111
	BH46 0.0-0.1	SE258536.013	%	60 - 130%	102
	BH47 0.0-0.1	SE258536.014	%	60 - 130%	98
	BH48 0.0-0.1	SE258536.015	%	60 - 130%	109
	BH49 0.0-0.1	SE258536.016	%	60 - 130%	98
	BH50 0.0-0.1	SE258536.017	%	60 - 130%	113
	BH51 0.0-0.1	SE258536.018	%	60 - 130%	106
	BH52 0.0-0.1	SE258536.019	%	60 - 130%	109
	BH53 0.0-0.1	SE258536.020	%	60 - 130%	104
	BH54 0.0-0.1	SE258536.021	%	60 - 130%	104
	BH55 0.0-0.1	SE258536.022	%	60 - 130%	112
	BH56 0.0-0.1	SE258536.023	%	60 - 130%	109

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d14-p-terphenyl (Surrogate)	BH57 0.0-0.1	SE258536.024	%	60 - 130%	104
	BH58 0.0-0.1	SE258536.025	%	60 - 130%	108
	BH59 0.0-0.1	SE258536.026	%	60 - 130%	102
	BH60 0.0-0.1	SE258536.027	%	60 - 130%	102
	BH61 0.0-0.1	SE258536.028	%	60 - 130%	82
	BH62 0.0-0.1	SE258536.029	%	60 - 130%	104
	BH63 0.0-0.1	SE258536.030	%	60 - 130%	107
	BH64 0.0-0.1	SE258536.031	%	60 - 130%	107
	BH65 0.0-0.1	SE258536.032	%	60 - 130%	105
	BH66 0.0-0.1	SE258536.033	%	60 - 130%	106
	BH67 0.0-0.1	SE258536.034	%	60 - 130%	107
	BH68 0.0-0.1	SE258536.035	%	60 - 130%	110
	BH69 0.0-0.1	SE258536.036	%	60 - 130%	109
	BH70 0.0-0.1	SE258536.037	%	60 - 130%	107
	BH71 0.0-0.1	SE258536.038	%	60 - 130%	112
	BH72 0.0-0.1	SE258536.039	%	60 - 130%	109
	BH73 0.0-0.1	SE258536.040	%	60 - 130%	108
	BH74 0.0-0.1	SE258536.041	%	60 - 130%	103
	BH75 0.0-0.1	SE258536.042	%	60 - 130%	107
	BH76 0.0-0.1	SE258536.043	%	60 - 130%	112
	BH77 0.0-0.1	SE258536.044	%	60 - 130%	107
	QC1	SE258536.045	%	60 - 130%	108
	QC3	SE258536.046	%	60 - 130%	110
	QC5	SE258536.047	%	60 - 130%	111
	QC7	SE258536.048	%	60 - 130%	110

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH34 0.0-0.1	SE258536.001	%	70 - 130%	102
	BH35 0.0-0.1	SE258536.002	%	70 - 130%	103
	BH36 0.0-0.1	SE258536.003	%	70 - 130%	108
	BH37 0.0-0.1	SE258536.004	%	70 - 130%	101
	BH38 0.0-0.1	SE258536.005	%	70 - 130%	99
	BH39 0.0-0.1	SE258536.006	%	70 - 130%	106
	BH40 0.0-0.1	SE258536.007	%	70 - 130%	100
	BH41 0.0-0.1	SE258536.008	%	70 - 130%	104
	BH42 0.0-0.1	SE258536.009	%	70 - 130%	100
	BH43 0.0-0.1	SE258536.010	%	70 - 130%	105
	BH44 0.0-0.1	SE258536.011	%	70 - 130%	109
	BH45 0.0-0.1	SE258536.012	%	70 - 130%	104
	BH46 0.0-0.1	SE258536.013	%	70 - 130%	100
	BH47 0.0-0.1	SE258536.014	%	70 - 130%	100
	BH48 0.0-0.1	SE258536.015	%	70 - 130%	103
	BH49 0.0-0.1	SE258536.016	%	70 - 130%	93
	BH50 0.0-0.1	SE258536.017	%	70 - 130%	105
	BH51 0.0-0.1	SE258536.018	%	70 - 130%	98
	BH52 0.0-0.1	SE258536.019	%	70 - 130%	103
	BH53 0.0-0.1	SE258536.020	%	70 - 130%	96
	BH54 0.0-0.1	SE258536.021	%	70 - 130%	99
	BH55 0.0-0.1	SE258536.022	%	70 - 130%	105
	BH56 0.0-0.1	SE258536.023	%	70 - 130%	102
	BH57 0.0-0.1	SE258536.024	%	70 - 130%	98
	BH58 0.0-0.1	SE258536.025	%	70 - 130%	102
	BH59 0.0-0.1	SE258536.026	%	70 - 130%	96
	BH60 0.0-0.1	SE258536.027	%	70 - 130%	95
	BH61 0.0-0.1	SE258536.028	%	70 - 130%	77
	BH62 0.0-0.1	SE258536.029	%	70 - 130%	97
	BH63 0.0-0.1	SE258536.030	%	70 - 130%	99
	BH64 0.0-0.1	SE258536.031	%	70 - 130%	103
	BH65 0.0-0.1	SE258536.032	%	70 - 130%	101
	BH66 0.0-0.1	SE258536.033	%	70 - 130%	104

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH67 0.0-0.1	SE258536.034	%	70 - 130%	103
	BH68 0.0-0.1	SE258536.035	%	70 - 130%	108
	BH69 0.0-0.1	SE258536.036	%	70 - 130%	105
	BH70 0.0-0.1	SE258536.037	%	70 - 130%	103
	BH71 0.0-0.1	SE258536.038	%	70 - 130%	102
	BH72 0.0-0.1	SE258536.039	%	70 - 130%	103
	BH73 0.0-0.1	SE258536.040	%	70 - 130%	101
	BH74 0.0-0.1	SE258536.041	%	70 - 130%	106
	BH75 0.0-0.1	SE258536.042	%	70 - 130%	104
	BH76 0.0-0.1	SE258536.043	%	70 - 130%	106
	BH77 0.0-0.1	SE258536.044	%	70 - 130%	99
	QC1	SE258536.045	%	70 - 130%	101
	QC3	SE258536.046	%	70 - 130%	104
	QC5	SE258536.047	%	70 - 130%	104
	QC7	SE258536.048	%	70 - 130%	105
d14-p-terphenyl (Surrogate)	BH34 0.0-0.1	SE258536.001	%	70 - 130%	100
	BH35 0.0-0.1	SE258536.002	%	70 - 130%	102
	BH36 0.0-0.1	SE258536.003	%	70 - 130%	106
	BH37 0.0-0.1	SE258536.004	%	70 - 130%	97
	BH38 0.0-0.1	SE258536.005	%	70 - 130%	97
	BH39 0.0-0.1	SE258536.006	%	70 - 130%	104
	BH40 0.0-0.1	SE258536.007	%	70 - 130%	100
	BH41 0.0-0.1	SE258536.008	%	70 - 130%	99
	BH42 0.0-0.1	SE258536.009	%	70 - 130%	96
	BH43 0.0-0.1	SE258536.010	%	70 - 130%	105
	BH44 0.0-0.1	SE258536.011	%	70 - 130%	106
	BH45 0.0-0.1	SE258536.012	%	70 - 130%	111
	BH46 0.0-0.1	SE258536.013	%	70 - 130%	98
	BH47 0.0-0.1	SE258536.014	%	70 - 130%	102
	BH48 0.0-0.1	SE258536.015	%	70 - 130%	109
	BH49 0.0-0.1	SE258536.016	%	70 - 130%	98
	BH50 0.0-0.1	SE258536.017	%	70 - 130%	113
	BH51 0.0-0.1	SE258536.018	%	70 - 130%	106
	BH52 0.0-0.1	SE258536.019	%	70 - 130%	109
	BH53 0.0-0.1	SE258536.020	%	70 - 130%	104
	BH54 0.0-0.1	SE258536.021	%	70 - 130%	104
	BH55 0.0-0.1	SE258536.022	%	70 - 130%	112
	BH56 0.0-0.1	SE258536.023	%	70 - 130%	109
	BH57 0.0-0.1	SE258536.024	%	70 - 130%	104
	BH58 0.0-0.1	SE258536.025	%	70 - 130%	108
	BH59 0.0-0.1	SE258536.026	%	70 - 130%	102
	BH60 0.0-0.1	SE258536.027	%	70 - 130%	102
	BH61 0.0-0.1	SE258536.028	%	70 - 130%	82
	BH62 0.0-0.1	SE258536.029	%	70 - 130%	104
	BH63 0.0-0.1	SE258536.030	%	70 - 130%	107
	BH64 0.0-0.1	SE258536.031	%	70 - 130%	107
	BH65 0.0-0.1	SE258536.032	%	70 - 130%	105
	BH66 0.0-0.1	SE258536.033	%	70 - 130%	106
	BH67 0.0-0.1	SE258536.034	%	70 - 130%	107
	BH68 0.0-0.1	SE258536.035	%	70 - 130%	110
	BH69 0.0-0.1	SE258536.036	%	70 - 130%	109
	BH70 0.0-0.1	SE258536.037	%	70 - 130%	107
	BH71 0.0-0.1	SE258536.038	%	70 - 130%	112
	BH72 0.0-0.1	SE258536.039	%	70 - 130%	109
	BH73 0.0-0.1	SE258536.040	%	70 - 130%	108
	BH74 0.0-0.1	SE258536.041	%	70 - 130%	103
	BH75 0.0-0.1	SE258536.042	%	70 - 130%	107
	BH76 0.0-0.1	SE258536.043	%	70 - 130%	112
	BH77 0.0-0.1	SE258536.044	%	70 - 130%	107
	QC1	SE258536.045	%	70 - 130%	108
	QC3	SE258536.046	%	70 - 130%	110

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d14-p-terphenyl (Surrogate)	QC5	SE258536.047	%	70 - 130%	111
	QC7	SE258536.048	%	70 - 130%	110
d5-nitrobenzene (Surrogate)	BH34 0.0-0.1	SE258536.001	%	70 - 130%	112
	BH35 0.0-0.1	SE258536.002	%	70 - 130%	114
	BH36 0.0-0.1	SE258536.003	%	70 - 130%	117
	BH37 0.0-0.1	SE258536.004	%	70 - 130%	106
	BH38 0.0-0.1	SE258536.005	%	70 - 130%	110
	BH39 0.0-0.1	SE258536.006	%	70 - 130%	113
	BH40 0.0-0.1	SE258536.007	%	70 - 130%	108
	BH41 0.0-0.1	SE258536.008	%	70 - 130%	113
	BH42 0.0-0.1	SE258536.009	%	70 - 130%	112
	BH43 0.0-0.1	SE258536.010	%	70 - 130%	115
	BH44 0.0-0.1	SE258536.011	%	70 - 130%	117
	BH45 0.0-0.1	SE258536.012	%	70 - 130%	111
	BH46 0.0-0.1	SE258536.013	%	70 - 130%	106
	BH47 0.0-0.1	SE258536.014	%	70 - 130%	102
	BH48 0.0-0.1	SE258536.015	%	70 - 130%	123
	BH49 0.0-0.1	SE258536.016	%	70 - 130%	112
	BH50 0.0-0.1	SE258536.017	%	70 - 130%	128
	BH51 0.0-0.1	SE258536.018	%	70 - 130%	119
	BH52 0.0-0.1	SE258536.019	%	70 - 130%	125
	BH53 0.0-0.1	SE258536.020	%	70 - 130%	117
	BH54 0.0-0.1	SE258536.021	%	70 - 130%	122
	BH55 0.0-0.1	SE258536.022	%	70 - 130%	132 ⓘ
	BH56 0.0-0.1	SE258536.023	%	70 - 130%	129
	BH57 0.0-0.1	SE258536.024	%	70 - 130%	125
	BH58 0.0-0.1	SE258536.025	%	70 - 130%	127
	BH59 0.0-0.1	SE258536.026	%	70 - 130%	122
	BH60 0.0-0.1	SE258536.027	%	70 - 130%	119
	BH61 0.0-0.1	SE258536.028	%	70 - 130%	97
	BH62 0.0-0.1	SE258536.029	%	70 - 130%	123
	BH63 0.0-0.1	SE258536.030	%	70 - 130%	123
	BH64 0.0-0.1	SE258536.031	%	70 - 130%	104
	BH65 0.0-0.1	SE258536.032	%	70 - 130%	109
	BH66 0.0-0.1	SE258536.033	%	70 - 130%	108
	BH67 0.0-0.1	SE258536.034	%	70 - 130%	108
	BH68 0.0-0.1	SE258536.035	%	70 - 130%	113
	BH69 0.0-0.1	SE258536.036	%	70 - 130%	111
	BH70 0.0-0.1	SE258536.037	%	70 - 130%	109
	BH71 0.0-0.1	SE258536.038	%	70 - 130%	108
	BH72 0.0-0.1	SE258536.039	%	70 - 130%	112
	BH73 0.0-0.1	SE258536.040	%	70 - 130%	106
	BH74 0.0-0.1	SE258536.041	%	70 - 130%	111
	BH75 0.0-0.1	SE258536.042	%	70 - 130%	108
	BH76 0.0-0.1	SE258536.043	%	70 - 130%	114
	BH77 0.0-0.1	SE258536.044	%	70 - 130%	105
	QC1	SE258536.045	%	70 - 130%	110
	QC3	SE258536.046	%	70 - 130%	113
	QC5	SE258536.047	%	70 - 130%	114
	QC7	SE258536.048	%	70 - 130%	112

PCBs in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH34 0.0-0.1	SE258536.001	%	60 - 130%	128
	BH35 0.0-0.1	SE258536.002	%	60 - 130%	126
	BH36 0.0-0.1	SE258536.003	%	60 - 130%	104
	BH37 0.0-0.1	SE258536.004	%	60 - 130%	106
	BH38 0.0-0.1	SE258536.005	%	60 - 130%	104
	BH39 0.0-0.1	SE258536.006	%	60 - 130%	107
	BH40 0.0-0.1	SE258536.007	%	60 - 130%	112
	BH41 0.0-0.1	SE258536.008	%	60 - 130%	112

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH42 0.0-0.1	SE258536.009	%	60 - 130%	111
	BH43 0.0-0.1	SE258536.010	%	60 - 130%	104
	BH44 0.0-0.1	SE258536.011	%	60 - 130%	104
	BH45 0.0-0.1	SE258536.012	%	60 - 130%	106
	BH46 0.0-0.1	SE258536.013	%	60 - 130%	99
	BH47 0.0-0.1	SE258536.014	%	60 - 130%	101
	BH48 0.0-0.1	SE258536.015	%	60 - 130%	99
	BH49 0.0-0.1	SE258536.016	%	60 - 130%	109
	BH50 0.0-0.1	SE258536.017	%	60 - 130%	109
	BH51 0.0-0.1	SE258536.018	%	60 - 130%	102
	BH52 0.0-0.1	SE258536.019	%	60 - 130%	116
	BH53 0.0-0.1	SE258536.020	%	60 - 130%	106
	BH54 0.0-0.1	SE258536.021	%	60 - 130%	108
	BH55 0.0-0.1	SE258536.022	%	60 - 130%	115
	BH56 0.0-0.1	SE258536.023	%	60 - 130%	105
	BH57 0.0-0.1	SE258536.024	%	60 - 130%	102
	BH58 0.0-0.1	SE258536.025	%	60 - 130%	109
	BH59 0.0-0.1	SE258536.026	%	60 - 130%	106
	BH60 0.0-0.1	SE258536.027	%	60 - 130%	104
	BH61 0.0-0.1	SE258536.028	%	60 - 130%	112
	BH62 0.0-0.1	SE258536.029	%	60 - 130%	111
	BH63 0.0-0.1	SE258536.030	%	60 - 130%	114
	BH64 0.0-0.1	SE258536.031	%	60 - 130%	119
	BH65 0.0-0.1	SE258536.032	%	60 - 130%	115
	BH66 0.0-0.1	SE258536.033	%	60 - 130%	115
	BH67 0.0-0.1	SE258536.034	%	60 - 130%	110
	BH68 0.0-0.1	SE258536.035	%	60 - 130%	103
	BH69 0.0-0.1	SE258536.036	%	60 - 130%	114
	BH70 0.0-0.1	SE258536.037	%	60 - 130%	106
	BH71 0.0-0.1	SE258536.038	%	60 - 130%	115
	BH72 0.0-0.1	SE258536.039	%	60 - 130%	118
	BH73 0.0-0.1	SE258536.040	%	60 - 130%	112
	BH74 0.0-0.1	SE258536.041	%	60 - 130%	110
	BH75 0.0-0.1	SE258536.042	%	60 - 130%	113
	BH76 0.0-0.1	SE258536.043	%	60 - 130%	112
	BH77 0.0-0.1	SE258536.044	%	60 - 130%	103
	QC1	SE258536.045	%	60 - 130%	108
	QC3	SE258536.046	%	60 - 130%	106
	QC5	SE258536.047	%	60 - 130%	121
	QC7	SE258536.048	%	60 - 130%	125

Speciated Phenols in Soil — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	BH34 0.0-0.1	SE258536.001	%	70 - 130%	102
	BH35 0.0-0.1	SE258536.002	%	70 - 130%	101
	BH36 0.0-0.1	SE258536.003	%	70 - 130%	103
	BH37 0.0-0.1	SE258536.004	%	70 - 130%	108
	BH38 0.0-0.1	SE258536.005	%	70 - 130%	129
	BH39 0.0-0.1	SE258536.006	%	70 - 130%	117
	BH40 0.0-0.1	SE258536.007	%	70 - 130%	110
	BH41 0.0-0.1	SE258536.008	%	70 - 130%	92
	BH42 0.0-0.1	SE258536.009	%	70 - 130%	105
	BH43 0.0-0.1	SE258536.010	%	70 - 130%	98
	BH44 0.0-0.1	SE258536.011	%	70 - 130%	97
	BH45 0.0-0.1	SE258536.012	%	70 - 130%	88
	BH46 0.0-0.1	SE258536.013	%	70 - 130%	95
	BH47 0.0-0.1	SE258536.014	%	70 - 130%	101
	BH48 0.0-0.1	SE258536.015	%	70 - 130%	90
	BH49 0.0-0.1	SE258536.016	%	70 - 130%	98
	BH50 0.0-0.1	SE258536.017	%	70 - 130%	89
	BH51 0.0-0.1	SE258536.018	%	70 - 130%	97

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Speciated Phenols in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	BH52 0.0-0.1	SE258536.019	%	70 - 130%	90
	BH53 0.0-0.1	SE258536.020	%	70 - 130%	92
	BH54 0.0-0.1	SE258536.021	%	70 - 130%	97
	BH55 0.0-0.1	SE258536.022	%	70 - 130%	84
	BH56 0.0-0.1	SE258536.023	%	70 - 130%	87
	BH57 0.0-0.1	SE258536.024	%	70 - 130%	102
	BH58 0.0-0.1	SE258536.025	%	70 - 130%	95
	BH59 0.0-0.1	SE258536.026	%	70 - 130%	102
	BH60 0.0-0.1	SE258536.027	%	70 - 130%	82
	BH61 0.0-0.1	SE258536.028	%	70 - 130%	101
	BH62 0.0-0.1	SE258536.029	%	70 - 130%	102
	BH63 0.0-0.1	SE258536.030	%	70 - 130%	95
	BH64 0.0-0.1	SE258536.031	%	70 - 130%	97
	BH65 0.0-0.1	SE258536.032	%	70 - 130%	98
	BH66 0.0-0.1	SE258536.033	%	70 - 130%	98
	BH67 0.0-0.1	SE258536.034	%	70 - 130%	88
	BH68 0.0-0.1	SE258536.035	%	70 - 130%	97
	BH69 0.0-0.1	SE258536.036	%	70 - 130%	97
	BH70 0.0-0.1	SE258536.037	%	70 - 130%	87
	BH71 0.0-0.1	SE258536.038	%	70 - 130%	100
	BH72 0.0-0.1	SE258536.039	%	70 - 130%	102
	BH73 0.0-0.1	SE258536.040	%	70 - 130%	98
	BH74 0.0-0.1	SE258536.041	%	70 - 130%	80
	BH75 0.0-0.1	SE258536.042	%	70 - 130%	89
	BH76 0.0-0.1	SE258536.043	%	70 - 130%	91
	BH77 0.0-0.1	SE258536.044	%	70 - 130%	99
	QC1	SE258536.045	%	70 - 130%	83
	QC3	SE258536.046	%	70 - 130%	87
	QC5	SE258536.047	%	70 - 130%	86
	QC7	SE258536.048	%	70 - 130%	99
d5-phenol (Surrogate)	BH34 0.0-0.1	SE258536.001	%	50 - 130%	100
	BH35 0.0-0.1	SE258536.002	%	50 - 130%	95
	BH36 0.0-0.1	SE258536.003	%	50 - 130%	103
	BH37 0.0-0.1	SE258536.004	%	50 - 130%	110
	BH38 0.0-0.1	SE258536.005	%	50 - 130%	127
	BH39 0.0-0.1	SE258536.006	%	50 - 130%	104
	BH40 0.0-0.1	SE258536.007	%	50 - 130%	100
	BH41 0.0-0.1	SE258536.008	%	50 - 130%	99
	BH42 0.0-0.1	SE258536.009	%	50 - 130%	104
	BH43 0.0-0.1	SE258536.010	%	50 - 130%	99
	BH44 0.0-0.1	SE258536.011	%	50 - 130%	99
	BH45 0.0-0.1	SE258536.012	%	50 - 130%	77
	BH46 0.0-0.1	SE258536.013	%	50 - 130%	90
	BH47 0.0-0.1	SE258536.014	%	50 - 130%	98
	BH48 0.0-0.1	SE258536.015	%	50 - 130%	89
	BH49 0.0-0.1	SE258536.016	%	50 - 130%	90
	BH50 0.0-0.1	SE258536.017	%	50 - 130%	85
	BH51 0.0-0.1	SE258536.018	%	50 - 130%	91
	BH52 0.0-0.1	SE258536.019	%	50 - 130%	82
	BH53 0.0-0.1	SE258536.020	%	50 - 130%	90
	BH54 0.0-0.1	SE258536.021	%	50 - 130%	92
	BH55 0.0-0.1	SE258536.022	%	50 - 130%	65
	BH56 0.0-0.1	SE258536.023	%	50 - 130%	71
	BH57 0.0-0.1	SE258536.024	%	50 - 130%	94
	BH58 0.0-0.1	SE258536.025	%	50 - 130%	86
	BH59 0.0-0.1	SE258536.026	%	50 - 130%	92
	BH60 0.0-0.1	SE258536.027	%	50 - 130%	71
	BH61 0.0-0.1	SE258536.028	%	50 - 130%	93
	BH62 0.0-0.1	SE258536.029	%	50 - 130%	94
	BH63 0.0-0.1	SE258536.030	%	50 - 130%	87
	BH64 0.0-0.1	SE258536.031	%	50 - 130%	99

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Speciated Phenols in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-phenol (Surrogate)	BH65 0.0-0.1	SE258536.032	%	50 - 130%	101
	BH66 0.0-0.1	SE258536.033	%	50 - 130%	101
	BH67 0.0-0.1	SE258536.034	%	50 - 130%	73
	BH68 0.0-0.1	SE258536.035	%	50 - 130%	96
	BH69 0.0-0.1	SE258536.036	%	50 - 130%	99
	BH70 0.0-0.1	SE258536.037	%	50 - 130%	98
	BH71 0.0-0.1	SE258536.038	%	50 - 130%	101
	BH72 0.0-0.1	SE258536.039	%	50 - 130%	100
	BH73 0.0-0.1	SE258536.040	%	50 - 130%	100
	BH74 0.0-0.1	SE258536.041	%	50 - 130%	70
	BH75 0.0-0.1	SE258536.042	%	50 - 130%	85
	BH76 0.0-0.1	SE258536.043	%	50 - 130%	94
	BH77 0.0-0.1	SE258536.044	%	50 - 130%	102
	QC1	SE258536.045	%	50 - 130%	58
	QC3	SE258536.046	%	50 - 130%	94
	QC5	SE258536.047	%	50 - 130%	84
	QC7	SE258536.048	%	50 - 130%	104

VOC's in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH34 0.0-0.1	SE258536.001	%	60 - 130%	70
	BH35 0.0-0.1	SE258536.002	%	60 - 130%	74
	BH36 0.0-0.1	SE258536.003	%	60 - 130%	79
	BH37 0.0-0.1	SE258536.004	%	60 - 130%	80
	BH38 0.0-0.1	SE258536.005	%	60 - 130%	75
	BH39 0.0-0.1	SE258536.006	%	60 - 130%	74
	BH40 0.0-0.1	SE258536.007	%	60 - 130%	65
	BH41 0.0-0.1	SE258536.008	%	60 - 130%	73
	BH42 0.0-0.1	SE258536.009	%	60 - 130%	76
	BH43 0.0-0.1	SE258536.010	%	60 - 130%	79
	BH44 0.0-0.1	SE258536.011	%	60 - 130%	70
	BH45 0.0-0.1	SE258536.012	%	60 - 130%	77
	BH46 0.0-0.1	SE258536.013	%	60 - 130%	74
	BH47 0.0-0.1	SE258536.014	%	60 - 130%	78
	BH48 0.0-0.1	SE258536.015	%	60 - 130%	76
	BH49 0.0-0.1	SE258536.016	%	60 - 130%	84
	BH50 0.0-0.1	SE258536.017	%	60 - 130%	74
	BH51 0.0-0.1	SE258536.018	%	60 - 130%	75
	BH52 0.0-0.1	SE258536.019	%	60 - 130%	73
	BH53 0.0-0.1	SE258536.020	%	60 - 130%	70
	BH54 0.0-0.1	SE258536.021	%	60 - 130%	83
	BH55 0.0-0.1	SE258536.022	%	60 - 130%	73
	BH56 0.0-0.1	SE258536.023	%	60 - 130%	72
	BH57 0.0-0.1	SE258536.024	%	60 - 130%	79
	BH58 0.0-0.1	SE258536.025	%	60 - 130%	78
	BH59 0.0-0.1	SE258536.026	%	60 - 130%	79
	BH60 0.0-0.1	SE258536.027	%	60 - 130%	74
	BH61 0.0-0.1	SE258536.028	%	60 - 130%	71
	BH62 0.0-0.1	SE258536.029	%	60 - 130%	73
	BH63 0.0-0.1	SE258536.030	%	60 - 130%	74
	BH64 0.0-0.1	SE258536.031	%	60 - 130%	99
	BH65 0.0-0.1	SE258536.032	%	60 - 130%	74
	BH66 0.0-0.1	SE258536.033	%	60 - 130%	74
	BH67 0.0-0.1	SE258536.034	%	60 - 130%	72
	BH68 0.0-0.1	SE258536.035	%	60 - 130%	75
	BH69 0.0-0.1	SE258536.036	%	60 - 130%	73
	BH70 0.0-0.1	SE258536.037	%	60 - 130%	69
	BH71 0.0-0.1	SE258536.038	%	60 - 130%	75
	BH72 0.0-0.1	SE258536.039	%	60 - 130%	69
	BH73 0.0-0.1	SE258536.040	%	60 - 130%	72
	BH74 0.0-0.1	SE258536.041	%	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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH75 0.0-0.1	SE258536.042	%	60 - 130%	71
	BH76 0.0-0.1	SE258536.043	%	60 - 130%	73
	BH77 0.0-0.1	SE258536.044	%	60 - 130%	68
	QC1	SE258536.045	%	60 - 130%	97
	QC3	SE258536.046	%	60 - 130%	97
	QC5	SE258536.047	%	60 - 130%	74
	QC7	SE258536.048	%	60 - 130%	69
d4-1,2-dichloroethane (Surrogate)	BH34 0.0-0.1	SE258536.001	%	60 - 130%	75
	BH35 0.0-0.1	SE258536.002	%	60 - 130%	82
	BH36 0.0-0.1	SE258536.003	%	60 - 130%	87
	BH37 0.0-0.1	SE258536.004	%	60 - 130%	86
	BH38 0.0-0.1	SE258536.005	%	60 - 130%	81
	BH39 0.0-0.1	SE258536.006	%	60 - 130%	83
	BH40 0.0-0.1	SE258536.007	%	60 - 130%	71
	BH41 0.0-0.1	SE258536.008	%	60 - 130%	80
	BH42 0.0-0.1	SE258536.009	%	60 - 130%	85
	BH43 0.0-0.1	SE258536.010	%	60 - 130%	85
	BH44 0.0-0.1	SE258536.011	%	60 - 130%	75
	BH45 0.0-0.1	SE258536.012	%	60 - 130%	91
	BH46 0.0-0.1	SE258536.013	%	60 - 130%	80
	BH47 0.0-0.1	SE258536.014	%	60 - 130%	93
	BH48 0.0-0.1	SE258536.015	%	60 - 130%	91
	BH49 0.0-0.1	SE258536.016	%	60 - 130%	114
	BH50 0.0-0.1	SE258536.017	%	60 - 130%	86
	BH51 0.0-0.1	SE258536.018	%	60 - 130%	92
	BH52 0.0-0.1	SE258536.019	%	60 - 130%	95
	BH53 0.0-0.1	SE258536.020	%	60 - 130%	92
	BH54 0.0-0.1	SE258536.021	%	60 - 130%	98
	BH55 0.0-0.1	SE258536.022	%	60 - 130%	84
	BH56 0.0-0.1	SE258536.023	%	60 - 130%	85
	BH57 0.0-0.1	SE258536.024	%	60 - 130%	114
	BH58 0.0-0.1	SE258536.025	%	60 - 130%	113
	BH59 0.0-0.1	SE258536.026	%	60 - 130%	106
	BH60 0.0-0.1	SE258536.027	%	60 - 130%	94
	BH61 0.0-0.1	SE258536.028	%	60 - 130%	101
	BH62 0.0-0.1	SE258536.029	%	60 - 130%	96
	BH63 0.0-0.1	SE258536.030	%	60 - 130%	99
	BH64 0.0-0.1	SE258536.031	%	60 - 130%	132 ①
	BH65 0.0-0.1	SE258536.032	%	60 - 130%	83
	BH66 0.0-0.1	SE258536.033	%	60 - 130%	86
	BH67 0.0-0.1	SE258536.034	%	60 - 130%	83
	BH68 0.0-0.1	SE258536.035	%	60 - 130%	83
	BH69 0.0-0.1	SE258536.036	%	60 - 130%	82
	BH70 0.0-0.1	SE258536.037	%	60 - 130%	82
	BH71 0.0-0.1	SE258536.038	%	60 - 130%	87
	BH72 0.0-0.1	SE258536.039	%	60 - 130%	82
	BH73 0.0-0.1	SE258536.040	%	60 - 130%	85
	BH74 0.0-0.1	SE258536.041	%	60 - 130%	85
	BH75 0.0-0.1	SE258536.042	%	60 - 130%	87
	BH76 0.0-0.1	SE258536.043	%	60 - 130%	87
	BH77 0.0-0.1	SE258536.044	%	60 - 130%	78
	QC1	SE258536.045	%	60 - 130%	135 ①
	QC3	SE258536.046	%	60 - 130%	134 ①
	QC5	SE258536.047	%	60 - 130%	85
	QC7	SE258536.048	%	60 - 130%	82
d8-toluene (Surrogate)	BH34 0.0-0.1	SE258536.001	%	60 - 130%	73
	BH35 0.0-0.1	SE258536.002	%	60 - 130%	81
	BH36 0.0-0.1	SE258536.003	%	60 - 130%	86
	BH37 0.0-0.1	SE258536.004	%	60 - 130%	88
	BH38 0.0-0.1	SE258536.005	%	60 - 130%	79
	BH39 0.0-0.1	SE258536.006	%	60 - 130%	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 identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	BH40 0.0-0.1	SE258536.007	%	60 - 130%	70
	BH41 0.0-0.1	SE258536.008	%	60 - 130%	78
	BH42 0.0-0.1	SE258536.009	%	60 - 130%	83
	BH43 0.0-0.1	SE258536.010	%	60 - 130%	85
	BH44 0.0-0.1	SE258536.011	%	60 - 130%	73
	BH45 0.0-0.1	SE258536.012	%	60 - 130%	81
	BH46 0.0-0.1	SE258536.013	%	60 - 130%	74
	BH47 0.0-0.1	SE258536.014	%	60 - 130%	87
	BH48 0.0-0.1	SE258536.015	%	60 - 130%	85
	BH49 0.0-0.1	SE258536.016	%	60 - 130%	100
	BH50 0.0-0.1	SE258536.017	%	60 - 130%	79
	BH51 0.0-0.1	SE258536.018	%	60 - 130%	83
	BH52 0.0-0.1	SE258536.019	%	60 - 130%	83
	BH53 0.0-0.1	SE258536.020	%	60 - 130%	82
	BH54 0.0-0.1	SE258536.021	%	60 - 130%	92
	BH55 0.0-0.1	SE258536.022	%	60 - 130%	75
	BH56 0.0-0.1	SE258536.023	%	60 - 130%	74
	BH57 0.0-0.1	SE258536.024	%	60 - 130%	92
	BH58 0.0-0.1	SE258536.025	%	60 - 130%	91
	BH59 0.0-0.1	SE258536.026	%	60 - 130%	90
	BH60 0.0-0.1	SE258536.027	%	60 - 130%	83
	BH61 0.0-0.1	SE258536.028	%	60 - 130%	80
	BH62 0.0-0.1	SE258536.029	%	60 - 130%	82
	BH63 0.0-0.1	SE258536.030	%	60 - 130%	81
	BH64 0.0-0.1	SE258536.031	%	60 - 130%	111
	BH65 0.0-0.1	SE258536.032	%	60 - 130%	77
	BH66 0.0-0.1	SE258536.033	%	60 - 130%	79
	BH67 0.0-0.1	SE258536.034	%	60 - 130%	77
	BH68 0.0-0.1	SE258536.035	%	60 - 130%	75
	BH69 0.0-0.1	SE258536.036	%	60 - 130%	73
	BH70 0.0-0.1	SE258536.037	%	60 - 130%	75
	BH71 0.0-0.1	SE258536.038	%	60 - 130%	81
	BH72 0.0-0.1	SE258536.039	%	60 - 130%	74
	BH73 0.0-0.1	SE258536.040	%	60 - 130%	78
	BH74 0.0-0.1	SE258536.041	%	60 - 130%	79
	BH75 0.0-0.1	SE258536.042	%	60 - 130%	78
	BH76 0.0-0.1	SE258536.043	%	60 - 130%	80
	BH77 0.0-0.1	SE258536.044	%	60 - 130%	71
	QC1	SE258536.045	%	60 - 130%	113
	QC3	SE258536.046	%	60 - 130%	111
	QC5	SE258536.047	%	60 - 130%	78
	QC7	SE258536.048	%	60 - 130%	76

Volatile Petroleum Hydrocarbons in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH34 0.0-0.1	SE258536.001	%	60 - 130%	70
	BH35 0.0-0.1	SE258536.002	%	60 - 130%	74
	BH36 0.0-0.1	SE258536.003	%	60 - 130%	79
	BH37 0.0-0.1	SE258536.004	%	60 - 130%	80
	BH38 0.0-0.1	SE258536.005	%	60 - 130%	75
	BH39 0.0-0.1	SE258536.006	%	60 - 130%	74
	BH40 0.0-0.1	SE258536.007	%	60 - 130%	65
	BH41 0.0-0.1	SE258536.008	%	60 - 130%	73
	BH42 0.0-0.1	SE258536.009	%	60 - 130%	76
	BH43 0.0-0.1	SE258536.010	%	60 - 130%	79
	BH44 0.0-0.1	SE258536.011	%	60 - 130%	70
	BH45 0.0-0.1	SE258536.012	%	60 - 130%	77
	BH46 0.0-0.1	SE258536.013	%	60 - 130%	74
	BH47 0.0-0.1	SE258536.014	%	60 - 130%	78
	BH48 0.0-0.1	SE258536.015	%	60 - 130%	76
	BH49 0.0-0.1	SE258536.016	%	60 - 130%	84

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH50 0.0-0.1	SE258536.017	%	60 - 130%	74
	BH51 0.0-0.1	SE258536.018	%	60 - 130%	75
	BH52 0.0-0.1	SE258536.019	%	60 - 130%	73
	BH53 0.0-0.1	SE258536.020	%	60 - 130%	70
	BH54 0.0-0.1	SE258536.021	%	60 - 130%	83
	BH55 0.0-0.1	SE258536.022	%	60 - 130%	73
	BH56 0.0-0.1	SE258536.023	%	60 - 130%	72
	BH57 0.0-0.1	SE258536.024	%	60 - 130%	79
	BH58 0.0-0.1	SE258536.025	%	60 - 130%	78
	BH59 0.0-0.1	SE258536.026	%	60 - 130%	79
	BH60 0.0-0.1	SE258536.027	%	60 - 130%	74
	BH61 0.0-0.1	SE258536.028	%	60 - 130%	71
	BH62 0.0-0.1	SE258536.029	%	60 - 130%	73
	BH63 0.0-0.1	SE258536.030	%	60 - 130%	74
	BH64 0.0-0.1	SE258536.031	%	60 - 130%	99
	BH65 0.0-0.1	SE258536.032	%	60 - 130%	74
	BH66 0.0-0.1	SE258536.033	%	60 - 130%	74
	BH67 0.0-0.1	SE258536.034	%	60 - 130%	72
	BH68 0.0-0.1	SE258536.035	%	60 - 130%	75
	BH69 0.0-0.1	SE258536.036	%	60 - 130%	73
	BH70 0.0-0.1	SE258536.037	%	60 - 130%	69
	BH71 0.0-0.1	SE258536.038	%	60 - 130%	75
	BH72 0.0-0.1	SE258536.039	%	60 - 130%	69
	BH73 0.0-0.1	SE258536.040	%	60 - 130%	72
	BH74 0.0-0.1	SE258536.041	%	60 - 130%	72
	BH75 0.0-0.1	SE258536.042	%	60 - 130%	71
	BH76 0.0-0.1	SE258536.043	%	60 - 130%	73
	BH77 0.0-0.1	SE258536.044	%	60 - 130%	68
	QC1	SE258536.045	%	60 - 130%	97
	QC3	SE258536.046	%	60 - 130%	97
	QC5	SE258536.047	%	60 - 130%	74
	QC7	SE258536.048	%	60 - 130%	69
d4-1,2-dichloroethane (Surrogate)	BH34 0.0-0.1	SE258536.001	%	60 - 130%	75
	BH35 0.0-0.1	SE258536.002	%	60 - 130%	82
	BH36 0.0-0.1	SE258536.003	%	60 - 130%	87
	BH37 0.0-0.1	SE258536.004	%	60 - 130%	86
	BH38 0.0-0.1	SE258536.005	%	60 - 130%	81
	BH39 0.0-0.1	SE258536.006	%	60 - 130%	83
	BH40 0.0-0.1	SE258536.007	%	60 - 130%	71
	BH41 0.0-0.1	SE258536.008	%	60 - 130%	80
	BH42 0.0-0.1	SE258536.009	%	60 - 130%	85
	BH43 0.0-0.1	SE258536.010	%	60 - 130%	85
	BH44 0.0-0.1	SE258536.011	%	60 - 130%	75
	BH45 0.0-0.1	SE258536.012	%	60 - 130%	91
	BH46 0.0-0.1	SE258536.013	%	60 - 130%	80
	BH47 0.0-0.1	SE258536.014	%	60 - 130%	93
	BH48 0.0-0.1	SE258536.015	%	60 - 130%	91
	BH49 0.0-0.1	SE258536.016	%	60 - 130%	114
	BH50 0.0-0.1	SE258536.017	%	60 - 130%	86
	BH51 0.0-0.1	SE258536.018	%	60 - 130%	92
	BH52 0.0-0.1	SE258536.019	%	60 - 130%	95
	BH53 0.0-0.1	SE258536.020	%	60 - 130%	92
	BH54 0.0-0.1	SE258536.021	%	60 - 130%	98
	BH55 0.0-0.1	SE258536.022	%	60 - 130%	84
	BH56 0.0-0.1	SE258536.023	%	60 - 130%	85
	BH57 0.0-0.1	SE258536.024	%	60 - 130%	114
	BH58 0.0-0.1	SE258536.025	%	60 - 130%	113
	BH59 0.0-0.1	SE258536.026	%	60 - 130%	106
	BH60 0.0-0.1	SE258536.027	%	60 - 130%	94
	BH61 0.0-0.1	SE258536.028	%	60 - 130%	101
	BH62 0.0-0.1	SE258536.029	%	60 - 130%	96

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	BH63 0.0-0.1	SE258536.030	%	60 - 130%	99
	BH64 0.0-0.1	SE258536.031	%	60 - 130%	132 ①
	BH65 0.0-0.1	SE258536.032	%	60 - 130%	83
	BH66 0.0-0.1	SE258536.033	%	60 - 130%	86
	BH67 0.0-0.1	SE258536.034	%	60 - 130%	83
	BH68 0.0-0.1	SE258536.035	%	60 - 130%	83
	BH69 0.0-0.1	SE258536.036	%	60 - 130%	82
	BH70 0.0-0.1	SE258536.037	%	60 - 130%	82
	BH71 0.0-0.1	SE258536.038	%	60 - 130%	87
	BH72 0.0-0.1	SE258536.039	%	60 - 130%	82
	BH73 0.0-0.1	SE258536.040	%	60 - 130%	85
	BH74 0.0-0.1	SE258536.041	%	60 - 130%	85
	BH75 0.0-0.1	SE258536.042	%	60 - 130%	87
	BH76 0.0-0.1	SE258536.043	%	60 - 130%	87
	BH77 0.0-0.1	SE258536.044	%	60 - 130%	78
	QC1	SE258536.045	%	60 - 130%	135 ①
	QC3	SE258536.046	%	60 - 130%	134 ①
	QC5	SE258536.047	%	60 - 130%	85
	QC7	SE258536.048	%	60 - 130%	82
d8-toluene (Surrogate)	BH34 0.0-0.1	SE258536.001	%	60 - 130%	73
	BH35 0.0-0.1	SE258536.002	%	60 - 130%	81
	BH36 0.0-0.1	SE258536.003	%	60 - 130%	86
	BH37 0.0-0.1	SE258536.004	%	60 - 130%	88
	BH38 0.0-0.1	SE258536.005	%	60 - 130%	79
	BH39 0.0-0.1	SE258536.006	%	60 - 130%	81
	BH40 0.0-0.1	SE258536.007	%	60 - 130%	70
	BH41 0.0-0.1	SE258536.008	%	60 - 130%	78
	BH42 0.0-0.1	SE258536.009	%	60 - 130%	83
	BH43 0.0-0.1	SE258536.010	%	60 - 130%	85
	BH44 0.0-0.1	SE258536.011	%	60 - 130%	73
	BH45 0.0-0.1	SE258536.012	%	60 - 130%	81
	BH46 0.0-0.1	SE258536.013	%	60 - 130%	74
	BH47 0.0-0.1	SE258536.014	%	60 - 130%	87
	BH48 0.0-0.1	SE258536.015	%	60 - 130%	85
	BH49 0.0-0.1	SE258536.016	%	60 - 130%	100
	BH50 0.0-0.1	SE258536.017	%	60 - 130%	79
	BH51 0.0-0.1	SE258536.018	%	60 - 130%	83
	BH52 0.0-0.1	SE258536.019	%	60 - 130%	83
	BH53 0.0-0.1	SE258536.020	%	60 - 130%	82
	BH54 0.0-0.1	SE258536.021	%	60 - 130%	92
	BH55 0.0-0.1	SE258536.022	%	60 - 130%	75
	BH56 0.0-0.1	SE258536.023	%	60 - 130%	74
	BH57 0.0-0.1	SE258536.024	%	60 - 130%	92
	BH58 0.0-0.1	SE258536.025	%	60 - 130%	91
	BH59 0.0-0.1	SE258536.026	%	60 - 130%	90
	BH60 0.0-0.1	SE258536.027	%	60 - 130%	83
	BH61 0.0-0.1	SE258536.028	%	60 - 130%	80
	BH62 0.0-0.1	SE258536.029	%	60 - 130%	82
	BH63 0.0-0.1	SE258536.030	%	60 - 130%	81
	BH64 0.0-0.1	SE258536.031	%	60 - 130%	111
	BH65 0.0-0.1	SE258536.032	%	60 - 130%	77
	BH66 0.0-0.1	SE258536.033	%	60 - 130%	79
	BH67 0.0-0.1	SE258536.034	%	60 - 130%	77
	BH68 0.0-0.1	SE258536.035	%	60 - 130%	75
	BH69 0.0-0.1	SE258536.036	%	60 - 130%	73
	BH70 0.0-0.1	SE258536.037	%	60 - 130%	75
	BH71 0.0-0.1	SE258536.038	%	60 - 130%	81
	BH72 0.0-0.1	SE258536.039	%	60 - 130%	74
	BH73 0.0-0.1	SE258536.040	%	60 - 130%	78
	BH74 0.0-0.1	SE258536.041	%	60 - 130%	79
	BH75 0.0-0.1	SE258536.042	%	60 - 130%	78

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	BH76 0.0-0.1	SE258536.043	%	60 - 130%	80
	BH77 0.0-0.1	SE258536.044	%	60 - 130%	71
	QC1	SE258536.045	%	60 - 130%	113
	QC3	SE258536.046	%	60 - 130%	111
	QC5	SE258536.047	%	60 - 130%	78
	QC7	SE258536.048	%	60 - 130%	76

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.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Number	Parameter	Units	LOR	Result
LB301571.001	Exchangeable Sodium, Na	mg/kg	2	0.4024
	Exchangeable Potassium, K	mg/kg	2	-0.1364
	Exchangeable Calcium, Ca	mg/kg	2	0.5074
	Exchangeable Magnesium, Mg	mg/kg	2	0.1305

Mercury in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB300387.001	Mercury	mg/kg	0.05	<0.05
LB300388.001	Mercury	mg/kg	0.05	<0.05
LB300389.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB300367.001		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
		Isodrin	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
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		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)	%	-	117
LB300368.001		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
		Isodrin	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
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		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
LB300369.001		Alpha BHC	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.

OC Pesticides in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB300369.001		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
		Isodrin	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
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		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

OP Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB300367.001		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)	%	-	105
		d14-p-terphenyl (Surrogate)	%	-	104
LB300368.001		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)	%	-	113
		d14-p-terphenyl (Surrogate)	%	-	110
LB300369.001		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

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 (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB300369.001		Methidathion	mg/kg	0.5	<0.5
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	100
		d14-p-terphenyl (Surrogate)	%	-	98

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB300367.001		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)	%	-	112
		2-fluorobiphenyl (Surrogate)	%	-	105
		d14-p-terphenyl (Surrogate)	%	-	104
LB300368.001		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)	%	-	117
		2-fluorobiphenyl (Surrogate)	%	-	113
		d14-p-terphenyl (Surrogate)	%	-	110
LB300369.001		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

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
LB300369.001		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)	%	-	99
		2-fluorobiphenyl (Surrogate)	%	-	100
		d14-p-terphenyl (Surrogate)	%	-	98

PCBs in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB300367.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	114
LB300368.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	93
LB300369.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	91

Speciated Phenols in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB300312.001		Phenol	mg/kg	0.5	<0.5
		2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1
		2-chlorophenol	mg/kg	0.5	<0.5
		2,4-dimethylphenol	mg/kg	0.5	<0.5
		2,6-dichlorophenol	mg/kg	0.5	<0.5
		2,4-dichlorophenol	mg/kg	0.5	<0.5
		4-chloro-3-methylphenol	mg/kg	2	<2
		2,4,6-trichlorophenol	mg/kg	0.5	<0.5
		2-nitrophenol	mg/kg	0.5	<0.5
		4-nitrophenol	mg/kg	1	<1
		2,4,5-trichlorophenol	mg/kg	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1
		Pentachlorophenol	mg/kg	0.5	<0.5
		2,4-dinitrophenol	mg/kg	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	105
		d5-phenol (Surrogate)	%	-	100

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.

Speciated Phenols in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB300313.001		Phenol	mg/kg	0.5	<0.5
		2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1
		2-chlorophenol	mg/kg	0.5	<0.5
		2,4-dimethylphenol	mg/kg	0.5	<0.5
		2,6-dichlorophenol	mg/kg	0.5	<0.5
		2,4-dichlorophenol	mg/kg	0.5	<0.5
		4-chloro-3-methylphenol	mg/kg	2	<2
		2,4,6-trichlorophenol	mg/kg	0.5	<0.5
		2-nitrophenol	mg/kg	0.5	<0.5
		4-nitrophenol	mg/kg	1	<1
		2,4,5-trichlorophenol	mg/kg	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1
		Pentachlorophenol	mg/kg	0.5	<0.5
		2,4-dinitrophenol	mg/kg	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	95
		d5-phenol (Surrogate)	%	-	95
LB300314.001		Phenol	mg/kg	0.5	<0.5
		2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1
		2-chlorophenol	mg/kg	0.5	<0.5
		2,4-dimethylphenol	mg/kg	0.5	<0.5
		2,6-dichlorophenol	mg/kg	0.5	<0.5
		2,4-dichlorophenol	mg/kg	0.5	<0.5
		4-chloro-3-methylphenol	mg/kg	2	<2
		2,4,6-trichlorophenol	mg/kg	0.5	<0.5
		2-nitrophenol	mg/kg	0.5	<0.5
		4-nitrophenol	mg/kg	1	<1
		2,4,5-trichlorophenol	mg/kg	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1
		Pentachlorophenol	mg/kg	0.5	<0.5
		2,4-dinitrophenol	mg/kg	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	85
		d5-phenol (Surrogate)	%	-	101

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

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

Sample Number	Parameter	Units	LOR	Result
LB300382.001	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
LB300383.001	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
LB300384.001	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

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).

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TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB300367.001	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
LB300368.001	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
LB300369.001	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
LB300372.001	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
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
		d8-toluene (Surrogate)	%	-	96
		Bromofluorobenzene (Surrogate)	%	-	88
	Totals	Total BTEX*	mg/kg	0.6	<0.6
LB300373.001	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
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	119
		d8-toluene (Surrogate)	%	-	102
		Bromofluorobenzene (Surrogate)	%	-	85
	Totals	Total BTEX*	mg/kg	0.6	<0.6
LB300374.001	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
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	91
		d8-toluene (Surrogate)	%	-	85
		Bromofluorobenzene (Surrogate)	%	-	85
	Totals	Total BTEX*	mg/kg	0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB300372.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
LB300373.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	119
LB300374.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	91

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300387.014	Mercury	mg/kg	0.05	<0.05	<0.05	152	0
SE258536.011	LB300387.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE258536.021	LB300388.014	Mercury	mg/kg	0.05	<0.05	<0.05	192	0
SE258536.030	LB300388.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE258536.040	LB300389.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE258536.048	LB300389.023	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 %
SE258536.002	LB300377.011	% Moisture	%w/w	1	24.4	27.6	34	12
SE258536.011	LB300377.021	% Moisture	%w/w	1	29.5	29.3	33	1
SE258536.021	LB300378.011	% Moisture	%w/w	1	22.2	19.0	35	16
SE258536.030	LB300378.021	% Moisture	%w/w	1	33.3	34.1	33	3
SE258536.040	LB300379.011	% Moisture	%w/w	1	26.6	26.4	34	1
SE258536.048	LB300379.020	% Moisture	%w/w	1	26.8	26.2	34	2

OC Pesticides in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300367.014		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	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	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.19	0.19	30	3
SE258536.011	LB300367.024		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.011	LB300367.024		Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.17	30	7
SE258536.021	LB300368.014		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	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	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.17	30	4
SE258536.030	LB300368.024		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	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	0.2	<0.2	<0.2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.030	LB300368.024		Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.17	30	4
SE258536.040	LB300369.014		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	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	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.17	30	0
SE258536.048	LB300369.023		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	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	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.048	LB300369.023		Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.19	0.17	30	6

OP Pesticides in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300367.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE258536.011	LB300367.024		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
SE258536.021	LB300368.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE258536.030	LB300368.024		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OP Pesticides in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.030	LB300368.024		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	4
SE258536.040	LB300369.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	3
SE258536.048	LB300369.023		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	3

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300367.014	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300367.014		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	-	0.6	0.6	30	3
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE258536.011	LB300367.024		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	-	0.6	0.6	30	5
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
SE258536.021	LB300368.014		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	-	0.6	0.6	30	3
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE258536.030	LB300368.024		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.030	LB300368.024		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	-	0.6	0.7	30	6
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	4
SE258536.040	LB300369.014		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	-	0.5	0.5	30	3
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	3
SE258536.048	LB300369.023		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.048	LB300369.023		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	-	0.6	0.6	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.6	30	3

PCBs in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300367.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	1
SE258536.011	LB300367.024		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	7
SE258536.021	LB300368.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	4
SE258536.030	LB300368.024		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	4
SE258536.040	LB300369.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PCBs in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.040	LB300369.014		Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	1
SE258536.048	LB300369.023		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	6

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.037	LB301339.007	pH	pH Units	0.1	5.7	5.6	32	1

Speciated Phenols in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300312.014		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.0	5.0	30	0
			d5-phenol (Surrogate)	mg/kg	-	1.9	1.9	30	3
SE258536.021	LB300313.014		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Speciated Phenols in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.021	LB300313.014	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.9	5.1	30	4
			d5-phenol (Surrogate)	mg/kg	-	1.8	1.9	30	2
SE258536.030	LB300313.024		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.8	4.9	30	4
			d5-phenol (Surrogate)	mg/kg	-	1.7	1.8	30	3
SE258536.040	LB300314.014		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.9	4.9	30	1
			d5-phenol (Surrogate)	mg/kg	-	2.0	2.0	30	0
SE258536.048	LB300314.023		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.0	5.0	30	1
			d5-phenol (Surrogate)	mg/kg	-	2.1	2.1	30	1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES — **Method: ME-(AU)-[ENV]AN040/AN320**

Original	Duplicate		Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued) — **Method: ME-(AU)-[ENV]AN040/AN320**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300382.014	Arsenic, As	mg/kg	1	2	3	66	20
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	37	35	31	7
		Copper, Cu	mg/kg	0.5	25	24	32	4
		Nickel, Ni	mg/kg	0.5	21	20	32	6
		Lead, Pb	mg/kg	1	8	8	42	3
		Zinc, Zn	mg/kg	2	38	39	35	2
SE258536.011	LB300382.024	Arsenic, As	mg/kg	1	4	4	53	3
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	17	17	33	4
		Copper, Cu	mg/kg	0.5	22	22	32	1
		Nickel, Ni	mg/kg	0.5	4.9	4.8	40	3
		Lead, Pb	mg/kg	1	8	8	42	1
		Zinc, Zn	mg/kg	2	15	15	43	2
SE258536.021	LB300383.014	Arsenic, As	mg/kg	1	6	5	49	10
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	6.5	6.0	38	8
		Copper, Cu	mg/kg	0.5	39	33	31	17
		Nickel, Ni	mg/kg	0.5	3.3	2.9	46	12
		Lead, Pb	mg/kg	1	7	7	44	9
		Zinc, Zn	mg/kg	2	22	21	39	3
SE258536.030	LB300383.024	Arsenic, As	mg/kg	1	5	6	48	11
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	5.5	5.5	39	1
		Copper, Cu	mg/kg	0.5	28	30	32	9
		Nickel, Ni	mg/kg	0.5	2.1	2.3	53	12
		Lead, Pb	mg/kg	1	6	7	46	8
		Zinc, Zn	mg/kg	2	15	24	40	44 ②
SE258536.040	LB300384.014	Arsenic, As	mg/kg	1	2	3	72	16
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	8.9	9.7	35	9
		Copper, Cu	mg/kg	0.5	3.1	2.7	47	12
		Nickel, Ni	mg/kg	0.5	3.5	3.2	45	8
		Lead, Pb	mg/kg	1	6	6	46	11
		Zinc, Zn	mg/kg	2	13	5.5	52	78 ②
SE258536.048	LB300384.023	Arsenic, As	mg/kg	1	2	3	65	31
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	8.0	8.8	36	9
		Copper, Cu	mg/kg	0.5	12	12	34	1
		Nickel, Ni	mg/kg	0.5	3.0	2.9	47	3
		Lead, Pb	mg/kg	1	7	8	44	9
		Zinc, Zn	mg/kg	2	8.2	8.4	54	2

TRH (Total Recoverable Hydrocarbons) in Soil — **Method: ME-(AU)-[ENV]AN403**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300367.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	46	134	3
			TRH C29-C36	mg/kg	45	47	<45	130	5
			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	138	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE258536.011	LB300367.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	84	110	77	23
			TRH C29-C36	mg/kg	45	100	110	71	8
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	190	220	84	15
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	141	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.011	LB300367.024	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	170	200	78	16
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE258536.021	LB300368.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	92	100	76	13
			TRH C29-C36	mg/kg	45	80	91	83	13
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	170	200	90	13
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	156	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	160	180	84	12
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE258536.030	LB300368.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	93	93	78	1
			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	220	250	76	13
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	230	128	8
		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	200	230	72	13
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE258536.040	LB300369.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	168	0
			TRH C29-C36	mg/kg	45	66	70	97	6
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	193	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	93	132	3
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE258536.048	LB300369.023		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	97	110	74	10
			TRH C29-C36	mg/kg	45	140	160	60	17
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	230	270	74	14
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	230	129	8
		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	200	230	72	13
			TRH >C34-C40 (F4)	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 %
SE258536.002	LB300372.014	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			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	-	8.2	7.9	50	4
			d8-toluene (Surrogate)	mg/kg	-	8.1	7.6	50	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.6	50	3
		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
SE258536.011	LB300372.024	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.011	LB300372.024	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	-	7.5	9.1	50	19
			d8-toluene (Surrogate)	mg/kg	-	7.3	8.9	50	21
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.0	8.0	50	13
		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
SE258536.021	LB300373.014	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	-	9.8	9.1	50	8
			d8-toluene (Surrogate)	mg/kg	-	9.2	8.1	50	13
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	7.1	50	15
		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
SE258536.030	LB300373.024	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	-	9.9	9.3	50	7
			d8-toluene (Surrogate)	mg/kg	-	8.1	7.7	50	5
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.2	50	2
		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
SE258536.040	LB300374.014	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	-	8.5	8.1	50	5
			d8-toluene (Surrogate)	mg/kg	-	7.8	7.5	50	4
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.2	6.9	50	4
		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
SE258536.048	LB300374.023	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	-	8.2	8.4	50	2
			d8-toluene (Surrogate)	mg/kg	-	7.6	7.8	50	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	6.9	7.1	50	3
		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

Volatile Petroleum Hydrocarbons in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300372.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.2	7.9	50	4
			d8-toluene (Surrogate)	mg/kg	-	8.1	7.6	50	7
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.6	50	3
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536.002	LB300372.014	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE258536.011	LB300372.024		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	-	7.5	9.1	50	19
			d8-toluene (Surrogate)	mg/kg	-	7.3	8.9	50	21
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.0	8.0	50	13
		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
SE258536.021	LB300373.014		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	-	9.8	9.1	50	8
			d8-toluene (Surrogate)	mg/kg	-	9.2	8.1	50	13
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	7.1	50	15
		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
SE258536.030	LB300373.024		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	-	9.9	9.3	50	7
			d8-toluene (Surrogate)	mg/kg	-	8.1	7.7	50	5
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.2	50	2
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE258536.040	LB300374.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.5	8.1	50	5
			d8-toluene (Surrogate)	mg/kg	-	7.8	7.5	50	4
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.2	6.9	50	4
		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
SE258536.048	LB300374.023		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.2	8.4	50	2
			d8-toluene (Surrogate)	mg/kg	-	7.6	7.8	50	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	6.9	7.1	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

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.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB301571.002	Exchangeable Sodium, Na	meq/100g	0.01	0.23	0.194	80 - 120	120
	Exchangeable Potassium, K	meq/100g	0.01	0.70	0.63	80 - 120	112
	Exchangeable Calcium, Ca	meq/100g	0.01	6.7	6.3	80 - 120	106
	Exchangeable Magnesium, Mg	meq/100g	0.02	1.0	1.11	80 - 120	94

Mercury in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300387.002	Mercury	mg/kg	0.05	0.20	0.2	80 - 120	102
LB300388.002	Mercury	mg/kg	0.05	0.20	0.2	80 - 120	101
LB300389.002	Mercury	mg/kg	0.05	0.24	0.2	80 - 120	118

OC Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300367.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	111
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	118
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	117
		Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	114
		Endrin	mg/kg	0.2	0.2	0.2	60 - 140	110
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	92
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.15	40 - 130	115
LB300368.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	92
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	94
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	94
		Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	103
		Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	92
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	95
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.15	40 - 130	92
LB300369.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	98
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	99
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	101
		Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	99
		Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	94
		p,p'-DDT	mg/kg	0.1	0.1	0.2	60 - 140	67
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.15	40 - 130	98

OP Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300367.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.0	2	60 - 140	100
		Diazinon (Dimpylate)	mg/kg	0.5	2.1	2	60 - 140	104
		Dichlorvos	mg/kg	0.5	1.4	2	60 - 140	72
		Ethion	mg/kg	0.2	2.1	2	60 - 140	106
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
LB300368.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.4	2	60 - 140	71
		Diazinon (Dimpylate)	mg/kg	0.5	1.3	2	60 - 140	67
		Dichlorvos	mg/kg	0.5	1.4	2	60 - 140	72
		Ethion	mg/kg	0.2	1.4	2	60 - 140	68
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	102
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	100
LB300369.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.6	2	60 - 140	80
		Diazinon (Dimpylate)	mg/kg	0.5	1.5	2	60 - 140	76
		Dichlorvos	mg/kg	0.5	1.5	2	60 - 140	74
		Ethion	mg/kg	0.2	1.4	2	60 - 140	69
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	102

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300367.002	Naphthalene	mg/kg	0.1	3.9	4	60 - 140	98
	Acenaphthylene	mg/kg	0.1	4.1	4	60 - 140	101
	Acenaphthene	mg/kg	0.1	4.2	4	60 - 140	105
	Phenanthrene	mg/kg	0.1	4.0	4	60 - 140	100
	Anthracene	mg/kg	0.1	4.1	4	60 - 140	104

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 Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300367.002		Fluoranthene	mg/kg	0.1	3.9	4	60 - 140	98
		Pyrene	mg/kg	0.1	4.3	4	60 - 140	108
		Benzo(a)pyrene	mg/kg	0.1	4.0	4	60 - 140	100
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	110
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
LB300368.002		Naphthalene	mg/kg	0.1	3.9	4	60 - 140	98
		Acenaphthylene	mg/kg	0.1	3.8	4	60 - 140	94
		Acenaphthene	mg/kg	0.1	4.0	4	60 - 140	100
		Phenanthrene	mg/kg	0.1	4.0	4	60 - 140	99
		Anthracene	mg/kg	0.1	3.9	4	60 - 140	99
		Fluoranthene	mg/kg	0.1	3.9	4	60 - 140	96
		Pyrene	mg/kg	0.1	4.0	4	60 - 140	100
		Benzo(a)pyrene	mg/kg	0.1	3.8	4	60 - 140	95
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	107
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	102
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	100
LB300369.002		Naphthalene	mg/kg	0.1	3.8	4	60 - 140	96
		Acenaphthylene	mg/kg	0.1	3.8	4	60 - 140	94
		Acenaphthene	mg/kg	0.1	4.0	4	60 - 140	99
		Phenanthrene	mg/kg	0.1	4.1	4	60 - 140	102
		Anthracene	mg/kg	0.1	3.9	4	60 - 140	98
		Fluoranthene	mg/kg	0.1	3.9	4	60 - 140	97
		Pyrene	mg/kg	0.1	3.9	4	60 - 140	98
		Benzo(a)pyrene	mg/kg	0.1	3.7	4	60 - 140	92
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	104
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	102

PCBs in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300367.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	99
LB300368.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	99
LB300369.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	101

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB301339.003	pH	pH Units	0.1	7.4	7.415	98 - 102	99

Speciated Phenols in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300312.002		Phenol	mg/kg	0.5	1.0	1	70 - 130	96
		2,4-dichlorophenol	mg/kg	0.5	0.9	1	70 - 130	86
		2,4,6-trichlorophenol	mg/kg	0.5	0.9	1	70 - 130	88
		Pentachlorophenol	mg/kg	0.5	0.7	1	70 - 130	72
	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.7	5	40 - 130	114
		d5-phenol (Surrogate)	mg/kg	-	2.2	2	40 - 130	109
LB300313.002		Phenol	mg/kg	0.5	0.9	1	70 - 130	90
		2,4-dichlorophenol	mg/kg	0.5	0.8	1	70 - 130	84
		2,4,6-trichlorophenol	mg/kg	0.5	0.9	1	70 - 130	88
		Pentachlorophenol	mg/kg	0.5	0.8	1	70 - 130	76
	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.2	5	40 - 130	103
		d5-phenol (Surrogate)	mg/kg	-	2.0	2	40 - 130	99
LB300314.002		Phenol	mg/kg	0.5	1.1	1	70 - 130	106
		2,4-dichlorophenol	mg/kg	0.5	0.9	1	70 - 130	88
		2,4,6-trichlorophenol	mg/kg	0.5	0.7	1	70 - 130	74
		Pentachlorophenol	mg/kg	0.5	0.7	1	70 - 130	70
	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.0	5	40 - 130	101
		d5-phenol (Surrogate)	mg/kg	-	2.3	2	40 - 130	113

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.

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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 %
LB300382.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	107
	Cadmium, Cd	mg/kg	0.3	4.3	4.81	70 - 130	89
	Chromium, Cr	mg/kg	0.5	41	38.31	80 - 120	106
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	108
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	103
	Lead, Pb	mg/kg	1	91	89.9	80 - 120	101
	Zinc, Zn	mg/kg	2	280	273	80 - 120	103
LB300383.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	108
	Cadmium, Cd	mg/kg	0.3	4.3	4.81	70 - 130	90
	Chromium, Cr	mg/kg	0.5	40	38.31	80 - 120	106
	Copper, Cu	mg/kg	0.5	330	290	80 - 120	115
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	103
	Lead, Pb	mg/kg	1	92	89.9	80 - 120	102
	Zinc, Zn	mg/kg	2	280	273	80 - 120	104
LB300384.002	Arsenic, As	mg/kg	1	350	318.22	80 - 120	108
	Cadmium, Cd	mg/kg	0.3	4.4	4.81	70 - 130	91
	Chromium, Cr	mg/kg	0.5	42	38.31	80 - 120	111
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	110
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	104
	Lead, Pb	mg/kg	1	91	89.9	80 - 120	101
	Zinc, Zn	mg/kg	2	280	273	80 - 120	104

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300367.002		TRH C10-C14	mg/kg	20	36	40	60 - 140	90
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	83
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	63
	TRH F Bands	TRH >C10-C16	mg/kg	25	37	40	60 - 140	93
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	68
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	63
LB300368.002		TRH C10-C14	mg/kg	20	28	40	60 - 140	70
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	76
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	99
	TRH F Bands	TRH >C10-C16	mg/kg	25	31	40	60 - 140	76
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	84
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	102
LB300369.002		TRH C10-C14	mg/kg	20	48	40	60 - 140	120
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	101
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	79
	TRH F Bands	TRH >C10-C16	mg/kg	25	46	40	60 - 140	115
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	84
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	85

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300372.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.0	5	60 - 140	79
		Toluene	mg/kg	0.1	4.2	5	60 - 140	84
		Ethylbenzene	mg/kg	0.1	4.3	5	60 - 140	85
		m/p-xylene	mg/kg	0.2	8.6	10	60 - 140	86
		o-xylene	mg/kg	0.1	4.4	5	60 - 140	87
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.4	10	70 - 130	104
		d8-toluene (Surrogate)	mg/kg	-	10.5	10	70 - 130	105
		Bromofluorobenzene (Surrogate)	mg/kg	-	11.0	10	70 - 130	110
LB300373.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.5	5	60 - 140	90
		Toluene	mg/kg	0.1	4.5	5	60 - 140	90
		Ethylbenzene	mg/kg	0.1	4.9	5	60 - 140	97
		m/p-xylene	mg/kg	0.2	10	10	60 - 140	100
		o-xylene	mg/kg	0.1	5.1	5	60 - 140	102
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.7	10	70 - 130	87
		d8-toluene (Surrogate)	mg/kg	-	8.2	10	70 - 130	82
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.8	10	70 - 130	108
LB300374.002	Monocyclic	Benzene	mg/kg	0.1	4.4	5	60 - 140	88

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 %
LB300374.002	Monocyclic Aromatic	Toluene	mg/kg	0.1	4.5	5	60 - 140	90
		Ethylbenzene	mg/kg	0.1	4.6	5	60 - 140	91
		m/p-xylene	mg/kg	0.2	9.3	10	60 - 140	93
		o-xylene	mg/kg	0.1	4.7	5	60 - 140	94
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	10	70 - 130	93
		d8-toluene (Surrogate)	mg/kg	-	8.9	10	70 - 130	89
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.1	10	70 - 130	101

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB300372.002		TRH C6-C10	mg/kg	25	82	92.5	60 - 140	88
		TRH C6-C9	mg/kg	20	73	80	60 - 140	91
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.4	10	70 - 130	104
		Bromofluorobenzene (Surrogate)	mg/kg	-	11.0	10	70 - 130	110
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	56	62.5	60 - 140	90
LB300373.002		TRH C6-C10	mg/kg	25	71	92.5	60 - 140	77
		TRH C6-C9	mg/kg	20	63	80	60 - 140	78
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.7	10	70 - 130	87
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.8	10	70 - 130	108
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	42	62.5	60 - 140	68
LB300374.002		TRH C6-C10	mg/kg	25	89	92.5	60 - 140	96
		TRH C6-C9	mg/kg	20	78	80	60 - 140	97
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	10	70 - 130	93
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.1	10	70 - 130	101
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	61	62.5	60 - 140	98

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.026	LB300387.004	Mercury	mg/kg	0.05	0.26	0.05270005656	0.2	102
SE258536.012	LB300388.004	Mercury	mg/kg	0.05	0.25	<0.05	0.2	116
SE258536.031	LB300389.004	Mercury	mg/kg	0.05	0.26	0.05	0.2	103

OC Pesticides in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.026	LB300367.004		Alpha BHC	mg/kg	0.1	<0.1	0.00044763037	-	-
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	0.00050026513	-	-
			Beta BHC	mg/kg	0.1	<0.1	0.00349632874	-	-
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	0.00129751120	-	-
			Delta BHC	mg/kg	0.1	0.2	0.00265727090	0.2	122
			Heptachlor	mg/kg	0.1	0.3	0.00016742426	0.2	136
			Aldrin	mg/kg	0.1	0.3	0.00249259232	0.2	132
			Isodrin	mg/kg	0.1	<0.1	0.04326133213	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	0	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	0.00067000683	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	0.00076677430	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	0.00098031858	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	0.00098031858	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	0.00168334612	-	-
			Dieldrin	mg/kg	0.2	0.3	0	0.2	126
			Endrin	mg/kg	0.2	0.2	0.00111558352	0.2	124
			Beta Endosulfan	mg/kg	0.2	<0.2	0.00305108465	-	-
			o,p'-DDD*	mg/kg	0.1	<0.1	0.04027107090	-	-
			p,p'-DDD	mg/kg	0.1	<0.1	0.00215028449	-	-
			Endrin aldehyde	mg/kg	0.1	<0.1	0.00349518740	-	-
			Endosulfan sulphate	mg/kg	0.1	<0.1	0.00046815751	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	0.00214048359	-	-
			p,p'-DDT	mg/kg	0.1	0.2	0.00105408506	0.2	118
			Endrin ketone	mg/kg	0.1	<0.1	0.00292890956	-	-
			Methoxychlor	mg/kg	0.1	<0.1	0.01187814579	-	-
			Mirex	mg/kg	0.1	<0.1	0.00050174758	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	0.00157343897	-	-
			Total CLP OC Pesticides	mg/kg	1	2	0	-	-
			Total OC VIC EPA	mg/kg	1	2	0	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.19	0.18978006190	-	127
SE258536.012	LB300368.004		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	107
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	106
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	0.2	<0.2	0.2	109
			Endrin	mg/kg	0.2	0.2	<0.2	0.2	108
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDD*	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	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	105
			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 identifer 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%
SE258536.012	LB300368.004		Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
			Total OC VIC EPA	mg/kg	1	1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	-	105
SE258536.031	LB300369.004		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	113
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	116
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	117
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	0.2	<0.2	0.2	114
			Endrin	mg/kg	0.2	0.2	<0.2	0.2	109
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDD*	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	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	95
			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	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
			Total OC VIC EPA	mg/kg	1	1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.17	-	107

OP Pesticides in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.026	LB300367.004		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	0.00072923881	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	0	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.1	0.00094022946	2	106
			Diazinon (Dimpylate)	mg/kg	0.5	2.2	0.02182533457	2	107
			Dichlorvos	mg/kg	0.5	1.8	0.00169254414	2	91
			Dimethoate	mg/kg	0.5	<0.5	0.02561132224	-	-
			Ethion	mg/kg	0.2	2.4	0.00195591999	2	119
			Fenitrothion	mg/kg	0.2	<0.2	0	-	-
			Malathion	mg/kg	0.2	<0.2	0.00641050998	-	-
			Methidathion	mg/kg	0.5	<0.5	0.00449459731	-	-
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	0.00023450652	-	-
			Total OP Pesticides*	mg/kg	1.7	8.5	0	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.6	0.55873301764	-	113
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.54621651987	-	106
SE258536.012	LB300368.004		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	2.3	<0.2	2	117
			Diazinon (Dimpylate)	mg/kg	0.5	2.2	<0.5	2	112
			Dichlorvos	mg/kg	0.5	2.3	<0.5	2	115
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	2.7	<0.2	2	136
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
			Malathion	mg/kg	0.2	<0.2	<0.2	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258536.012	LB300368.004		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	9.6	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.6	0.5	-	120
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.6	0.6	-	112
SE258536.031	LB300369.004		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	1.5	<0.2	2	74
			Diazinon (Dimpylate)	mg/kg	0.5	1.7	<0.5	2	84
			Dichlorvos	mg/kg	0.5	1.5	<0.5	2	76
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	1.8	<0.2	2	88
			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	6.5	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	94
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	90

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.026	LB300367.004		Naphthalene	mg/kg	0.1	4.0	0.00196244820	4	101
			2-methylnaphthalene	mg/kg	0.1	<0.1	0.00136543979	-	-
			1-methylnaphthalene	mg/kg	0.1	<0.1	0.00140835084	-	-
			Acenaphthylene	mg/kg	0.1	4.1	0	4	102
			Acenaphthene	mg/kg	0.1	4.2	0.00095462235	4	105
			Fluorene	mg/kg	0.1	<0.1	0.00239697581	-	-
			Phenanthrene	mg/kg	0.1	4.0	0.00398436416	4	101
			Anthracene	mg/kg	0.1	4.0	0.00162050559	4	99
			Fluoranthene	mg/kg	0.1	3.8	0.00222073841	4	96
			Pyrene	mg/kg	0.1	4.2	0.00205729533	4	105
			Benzo(a)anthracene	mg/kg	0.1	<0.1	0.00875804949	-	-
			Chrysene	mg/kg	0.1	<0.1	0.00864894063	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	0.00247591371	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0.00222912210	-	-
			Benzo(a)pyrene	mg/kg	0.1	3.7	0	4	93
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0.00130881220	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	0.00045443718	-	-
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	0.00111383356	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	3.7	0	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	3.8	0.121	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	3.9	0.242	-	-
			Total PAH (18)	mg/kg	0.8	32	0	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.56756731867	-	117
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.6	0.55873301764	-	113
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.54621651987	-	106
SE258536.012	LB300368.004		Naphthalene	mg/kg	0.1	5.2	<0.1	4	130
			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	5.1	<0.1	4	127
			Acenaphthene	mg/kg	0.1	5.4	<0.1	4	134
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	5.2	<0.1	4	130
			Anthracene	mg/kg	0.1	5.1	<0.1	4	127
			Fluoranthene	mg/kg	0.1	5.2	<0.1	4	129
			Pyrene	mg/kg	0.1	5.0	<0.1	4	125
			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	-	-

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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%
SE258536.012	LB300368.004		Benzo(a)pyrene	mg/kg	0.1	5.0	<0.1	4	126
			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	5.0	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	5.1	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	5.2	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	41	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.7	0.6	-	132
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.6	0.5	-	120
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.6	0.6	-	112
SE258536.031	LB300369.004		Naphthalene	mg/kg	0.1	3.4	<0.1	4	85
			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	3.5	<0.1	4	86
			Acenaphthene	mg/kg	0.1	3.6	<0.1	4	89
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	3.4	<0.1	4	86
			Anthracene	mg/kg	0.1	3.4	<0.1	4	86
			Fluoranthene	mg/kg	0.1	3.3	<0.1	4	82
			Pyrene	mg/kg	0.1	3.6	<0.1	4	90
			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	3.3	<0.1	4	83
			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	3.3	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	3.4	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	3.5	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	28	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	94
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	94
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	90

PCBs in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.026	LB300367.004		Arochlor 1016	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1260	mg/kg	0.2	0.4	0	0.4	106
			Arochlor 1262	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	0	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	0	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0.18628852399	-	126
SE258536.012	LB300368.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.4	<0.2	0.4	102
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	-	103

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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PCBs in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258536.031	LB300369.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.4	<0.2	0.4	96
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	-	111

Speciated Phenols in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.026	LB300312.004		Phenol	mg/kg	0.5	0.9	0.03102144663	1	87
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	0	-	-
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	0	-	-
			Total Cresol	mg/kg	1.5	<1.5	0	-	-
			2-chlorophenol	mg/kg	0.5	<0.5	0	-	-
			2,4-dimethylphenol	mg/kg	0.5	<0.5	0	-	-
			2,6-dichlorophenol	mg/kg	0.5	<0.5	0	-	-
			2,4-dichlorophenol	mg/kg	0.5	0.9	0	1	90
			4-chloro-3-methylphenol	mg/kg	2	<2	0	-	-
			2,4,6-trichlorophenol	mg/kg	0.5	0.9	0	1	94
			2-nitrophenol	mg/kg	0.5	<0.5	0	-	-
			4-nitrophenol	mg/kg	1	<1	0	-	-
			2,4,5-trichlorophenol	mg/kg	0.5	0.8	0	-	-
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	0	-	-
			Pentachlorophenol	mg/kg	0.5	0.9	0	1	92
			2,4-dinitrophenol	mg/kg	2	<2	0	-	-
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.4	4.41	-	109
			d5-phenol (Surrogate)	mg/kg	-	2.1	1.61	-	104
SE258536.012	LB300313.004		Phenol	mg/kg	0.5	0.9	<0.5	1	87
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	-	-
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	-	-
			Total Cresol	mg/kg	1.5	<1.5	<1.5	-	-
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dichlorophenol	mg/kg	0.5	0.8	<0.5	1	84
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	-	-
			2,4,6-trichlorophenol	mg/kg	0.5	0.8	<0.5	1	82
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	-	-
			4-nitrophenol	mg/kg	1	<1	<1	-	-
			2,4,5-trichlorophenol	mg/kg	0.5	0.7	<0.5	-	-
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	-	-
			Pentachlorophenol	mg/kg	0.5	0.9	<0.5	1	92
			2,4-dinitrophenol	mg/kg	2	<2	<2	-	-
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.2	4.4	-	85
			d5-phenol (Surrogate)	mg/kg	-	1.8	1.5	-	90
SE258536.031	LB300314.004		Phenol	mg/kg	0.5	1.1	<0.5	1	105
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	-	-
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	-	-
			Total Cresol	mg/kg	1.5	<1.5	<1.5	-	-
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dichlorophenol	mg/kg	0.5	1.0	<0.5	1	95
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	-	-
			2,4,6-trichlorophenol	mg/kg	0.5	0.8	<0.5	1	81
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Speciated Phenols in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258536.031	LB300314.004		4-nitrophenol	mg/kg	1	<1	<1	-	-
			2,4,5-trichlorophenol	mg/kg	0.5	0.7	<0.5	-	-
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	-	-
			Pentachlorophenol	mg/kg	0.5	0.8	<0.5	1	79
			2,4-dinitrophenol	mg/kg	2	<2	<2	-	-
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.1	4.9	-	102
			d5-phenol (Surrogate)	mg/kg	-	2.2	2.0	-	108

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%
SE258534.026	LB300382.004		Arsenic, As	mg/kg	1	51	3.36093851874	50	95
			Cadmium, Cd	mg/kg	0.3	46	0.06984440254	50	92
			Chromium, Cr	mg/kg	0.5	60	13.22193342613	50	93
			Copper, Cu	mg/kg	0.5	62	16.78335124848	50	91
			Nickel, Ni	mg/kg	0.5	54	6.93205695254	50	94
			Lead, Pb	mg/kg	1	53	8.30695695078	50	89
			Zinc, Zn	mg/kg	2	62	16.62878817247	50	91
SE258536.012	LB300383.004		Arsenic, As	mg/kg	1	51	5	50	92
			Cadmium, Cd	mg/kg	0.3	45	<0.3	50	90
			Chromium, Cr	mg/kg	0.5	67	23	50	90
			Copper, Cu	mg/kg	0.5	71	27	50	89
			Nickel, Ni	mg/kg	0.5	69	25	50	87
			Lead, Pb	mg/kg	1	56	15	50	83
			Zinc, Zn	mg/kg	2	100	64	50	73
SE258536.031	LB300384.004		Arsenic, As	mg/kg	1	50	5	50	89
			Cadmium, Cd	mg/kg	0.3	41	<0.3	50	83
			Chromium, Cr	mg/kg	0.5	51	6.2	50	90
			Copper, Cu	mg/kg	0.5	55	12	50	86
			Nickel, Ni	mg/kg	0.5	55	12	50	85
			Lead, Pb	mg/kg	1	58	17	50	83
			Zinc, Zn	mg/kg	2	66	23	50	87

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.026	LB300367.004		TRH C10-C14	mg/kg	20	38	0	40	94
			TRH C15-C28	mg/kg	45	<45	0	40	102
			TRH C29-C36	mg/kg	45	<45	0	40	101
			TRH C37-C40	mg/kg	100	<100	0	-	-
			TRH C10-C36 Total	mg/kg	110	<110	0	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	0	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	38	0	40	96
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	38	0	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	0	40	133
			TRH >C34-C40 (F4)	mg/kg	120	<120	0	-	-
SE258536.012	LB300368.004		TRH C10-C14	mg/kg	20	34	<20	40	81
			TRH C15-C28	mg/kg	45	66	<45	40	128
			TRH C29-C36	mg/kg	45	70	<45	40	81
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	170	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	38	<25	40	87
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	38	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	83
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE258536.031	LB300369.004		TRH C10-C14	mg/kg	20	79	<20	40	166 ④
			TRH C15-C28	mg/kg	45	190	70	40	310 ④
			TRH C29-C36	mg/kg	45	200	130	40	186 ④
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	480	200	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	390	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	86	<25	40	169 ④
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	86	<25	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258536.031	LB300369.004	TRH F	TRH >C16-C34 (F3)	mg/kg	90	300	170	40	341 ④
		Bands	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%
SE258534.026	LB300372.004	Monocyclic	Benzene	mg/kg	0.1	4.6	0.01555532312	5	91
		Aromatic	Toluene	mg/kg	0.1	4.9	0.03940093518	5	97
			Ethylbenzene	mg/kg	0.1	5.0	0.03787413112	5	100
			m/p-xylene	mg/kg	0.2	10	0.06899632868	10	104
			o-xylene	mg/kg	0.1	5.4	0.03464522749	5	108
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	0.00242776046	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.5	7.84827390169	10	75
			d8-toluene (Surrogate)	mg/kg	-	7.2	7.27947299634	10	72
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.7	7.11696252215	10	87
		Totals	Total BTEX*	mg/kg	0.6	30	0	-	-
			Total Xylenes*	mg/kg	0.3	16	0.10364155618	-	-
SE258536.012	LB300373.004	Monocyclic	Benzene	mg/kg	0.1	4.0	<0.1	5	80
		Aromatic	Toluene	mg/kg	0.1	4.6	<0.1	5	91
			Ethylbenzene	mg/kg	0.1	4.6	<0.1	5	93
			m/p-xylene	mg/kg	0.2	10	<0.2	10	100
			o-xylene	mg/kg	0.1	5.1	<0.1	5	102
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.2	9.1	10	82
			d8-toluene (Surrogate)	mg/kg	-	7.5	8.1	10	75
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.7	7.7	10	97
		Totals	Total BTEX*	mg/kg	0.6	28	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	15	<0.3	-	-
SE258536.031	LB300374.004	Monocyclic	Benzene	mg/kg	0.1	4.1	<0.1	5	82
		Aromatic	Toluene	mg/kg	0.1	4.3	<0.1	5	86
			Ethylbenzene	mg/kg	0.1	4.6	<0.1	5	92
			m/p-xylene	mg/kg	0.2	9.6	<0.2	10	96
			o-xylene	mg/kg	0.1	4.9	<0.1	5	99
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.1	13.2	10	71
			d8-toluene (Surrogate)	mg/kg	-	5.8	11.1	10	58 ①
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.5	9.9	10	75
		Totals	Total BTEX*	mg/kg	0.6	28	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	15	<0.3	-	-

Volatile Petroleum Hydrocarbons in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534.026	LB300372.004		TRH C6-C10	mg/kg	25	100	0.50466646310	92.5	108
			TRH C6-C9	mg/kg	20	88	0.37559495426	80	109
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.5	7.84827390169	10	75
			d8-toluene (Surrogate)	mg/kg	-	7.2	7.27947299634	10	72
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.7	7.11696252215	-	87
		VPH F	Benzene (F0)	mg/kg	0.1	4.6	0.01555532312	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	70	0.50466646310	62.5	111
SE258536.012	LB300373.004		TRH C6-C10	mg/kg	25	67	<25	92.5	72
			TRH C6-C9	mg/kg	20	59	<20	80	73
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.2	9.1	10	82
			d8-toluene (Surrogate)	mg/kg	-	7.5	8.1	10	75
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.7	7.7	-	97
		VPH F	Benzene (F0)	mg/kg	0.1	4.0	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	39	<25	62.5	61
SE258536.031	LB300374.004		TRH C6-C10	mg/kg	25	90	<25	92.5	97
			TRH C6-C9	mg/kg	20	78	<20	80	97
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.1	13.2	10	71
			d8-toluene (Surrogate)	mg/kg	-	5.8	11.1	10	58 ①
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.5	9.9	-	75
		VPH F	Benzene (F0)	mg/kg	0.1	4.1	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	63	<25	62.5	100

MATRIX SPIKE DUPLICATES

SE258536 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.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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ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

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Project	**P23158**
Order Number	**SE258536**
Samples	3

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SGS Reference	**CE171920 R0**
Date Received	22 Dec 2023
Date Reported	04 Jan 2024

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(3146)

SIGNATORIES

Anthony NILSSON
Operations Manager

Jon DICKER
Manager Northern QLD

Parameter	Units	LOR	Sample Number: CE171920.009 Sample Matrix: Soil Sample Date: 13 Dec 2023 Sample Name: SE258536.009
Moisture Content Method: AN002 Tested: 22/12/2023			
% Moisture	%w/w	1	**18**
Particle sizing of soils by sieving Method: AN005 Tested: 3/1/2024			
Passing 75µm	%w/w	1	<1
Retained 75µm	%w/w	1	**99**
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 4/1/2024			
Clay (<0.002mm)	%w/w	0.1	<0.1

Parameter	Units	LOR	Sample Number: CE171920.026 Sample Matrix: Soil Sample Date: 14 Dec 2023 Sample Name: SE258536.026
Moisture Content Method: AN002 Tested: 22/12/2023			
% Moisture	%w/w	1	**15**
Particle sizing of soils by sieving Method: AN005 Tested: 3/1/2024			
Passing 75µm	%w/w	1	**41**
Retained 75µm	%w/w	1	**59**
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 4/1/2024			
Clay (<0.002mm)	%w/w	0.1	**7.0**

Parameter	Units	LOR	Sample Number CE171920.037 Sample Matrix Soil Sample Date 14 Dec 2023 Sample Name SE258536.037
Moisture Content Method: AN002 Tested: 22/12/2023			
% Moisture	%w/w	1	**21**
Particle sizing of soils by sieving Method: AN005 Tested: 3/1/2024			
Passing 75µm	%w/w	1	**10**
Retained 75µm	%w/w	1	**90**
Particle sizing of soils <75µm by hydrometer Method: AN005 Tested: 4/1/2024			
Clay (<0.002mm)	%w/w	0.1	**1.0**

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

No QC samples were reported for this job.

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.
AN005	The particle size distribution of a soil is determined by wet sieving, using a maximum of 900 mL of deionised water to sieve all fractions down to 75 µm. Referenced to AS1289.3.6.1 and AS1141.11.
AN005	Following wet sieving of the sample,(particles smaller than 75 µm) a dispersing solution is added and a hydrometer is used to measure sedimentation. Soil density is determined and the percentage of each size fraction calculated. Referenced to AS1289.3.6.3.

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
		QFL	QC result is below the lower tolerance
**	Indicative data, theoretical holding time exceeded.	-	The sample was not analysed for this analyte
***	Indicates that both * and ** apply.	NVL	Not Validated

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 calcuated 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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SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

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Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3												
BH31 0.0-0.1	12/12/2023			X		1	X																
BH31 0.4-0.5	12/12/2023			X		1			X														
BH32 0.0-0.1	12/12/2023			X		1	X																
BH32 0.1-0.2	12/12/2023			X		1			X														
BH33 0.0-0.1	12/12/2023			X		1	X	X															
BH33 0.2-0.3	12/12/2023			X		1			X														
BH34 0.0-0.1	13/12/2023	1		X		1	X																
BH34 0.3-0.4	13/12/2023			X		1			x														
BH35 0.0-0.1	13/12/2023	2		X		1	X																
BH35 0.2-0.3	13/12/2023			X		1			X														
BH36 0.0-0.1	13/12/2023	3		X		1	X																
BH36 0.4-0.5	13/12/2023			X		1			X														
BH37 0.0-0.1	13/12/2023	4		X		1	X																
BH37 0.1-0.2	13/12/2023			X		1			X														
BH38 0.0-0.1	13/12/2023	5		X		1	X																

SGS EHS Sydney COC
SE258536

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By:	Date/Time 20/12/23 @ 5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3											
BH38 0.2-0.3	13/12/2023			X		1			X													
BH39 0.0-0.1	13/12/2023	6		X		1	X															
BH39 0.3-0.4	13/12/2023			X		1			X													
BH40 0.0-0.1	13/12/2023	7		X		1	X															
BH40 0.4-0.5	13/12/2023			X		1			X													
BH41 0.0-0.1	13/12/2023	8		X		1	X															
BH41 0.2-0.3	13/12/2023			X		1			X													
BH42 0.0-0.1	13/12/2023	9		X		1	X	X														
BH42 0.3-0.4	13/12/2023			X		1			X													
BH43 0.0-0.1	13/12/2023	10		X		1	X															
BH43 0.1-0.2	13/12/2023			X		1			X													
BH44 0.0-0.1	13/12/2023	11		X		1	X															
BH44 0.4-0.5	13/12/2023			X		1			X													
BH45 0.0-0.1	13/12/2023	12		X		1	X															
BH45 0.1-0.2	13/12/2023			X		1			X													

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By: S. Subarny	Date/Time 20/12/23 @ 5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes) No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

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Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3										
BH46 0.0-0.1	13/12/2023	13		X		1	X														
BH46 0.4-0.5	13/12/2023			X		1			X												
BH47 0.0-0.1	13/12/2023	14		X		1	X														
BH47 0.3-0.4	13/12/2023			X		1			X												
BH48 0.0-0.1	13/12/2023	15		X		1	X														
BH48 0.2-0.3	13/12/2023			X		1			X												
BH49 0.0-0.1	13/12/2023	16		X		1	X														
BH49 0.1-0.2	13/12/2023			X		1			X												
BH50 0.0-0.1	13/12/2023	17		X		1	X														
BH50 0.2-0.3	13/12/2023			X		1			X												
BH51 0.0-0.1	13/12/2023	18		X		1	X														
BH51 0.2-0.3	13/12/2023			X		1			X												
BH52 0.0-0.1	13/12/2023	19		X		1	X														
BH52 0.4-0.5	13/12/2023			X		1			X												
BH53 0.0-0.1	13/12/2023	20		X		1	X														

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By:	Date/Time 20/12/23 @ 5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

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Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3												
BH53 0.4-0.5	13/12/2023			X		1			X														
BH54 0.0-0.1	13/12/2023	21		X		1	X																
BH54 0.1-0.2	13/12/2023			X		1			X														
BH55 0.0-0.1	13/12/2023	22		X		1	X																
BH55 0.2-0.3	13/12/2023			X		1			X														
BH56 0.0-0.1	13/12/2023	23		X		1	X																
BH56 0.3-0.4	13/12/2023			X		1			X														
BH57 0.0-0.1	13/12/2023	24		X		1	X																
BH57 0.3-0.4	13/12/2023			X		1			X														
BH58 0.0-0.1	14/12/2023	25		X		1	X																
BH58 0.2-0.3	14/12/2023			X		1			X														
BH59 0.0-0.1	14/12/2023	26		X		1	X	X															
BH59 0.1-0.2	14/12/2023			X		1			X														
BH60 0.0-0.1	14/12/2023	27		X		1	X																
BH60 0.2-0.3	14/12/2023			X		1			X														

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By: B. Subary	Date/Time 20/12/23 @ 5.25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes)/ No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

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Unit 16, 33 Maddox Street
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Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3											
BH61 0.0-0.1	14/12/2023	28		X		1	X															
BH61 0.4-0.5	14/12/2023			X		1			X													
BH62 0.0-0.1	14/12/2023	29		X		1	X															
BH62 0.4-0.5	14/12/2023			X		1			X													
BH63 0.0-0.1	14/12/2023	30		X		1	X															
BH63 0.4-0.5	14/12/2023			X		1			X													
BH64 0.0-0.1	14/12/2023	31		X		1	X															
BH64 0.1-0.2	14/12/2023			X		1			X													
BH65 0.0-0.1	14/12/2023	32		X		1	X															
BH65 0.4-0.5	14/12/2023			X		1			X													
BH66 0.0-0.1	14/12/2023	33		X		1	X															
BH66 0.3-0.4	14/12/2023			X		1			X													
BH67 0.0-0.1	14/12/2023	34		X		1	X															
BH67 0.3-0.4	14/12/2023			X		1			X													
BH68 0.0-0.1	14/12/2023	35		X		1	X															

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By:	Date/Time 20/12/23 @5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes) No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3											
BH68 0.4-0.5	14/12/2023			X		1			X													
BH69 0.0-0.1	14/12/2023	36		X		1	X															
BH69 0.4-0.5	14/12/2023			X		1			X													
BH70 0.0-0.1	14/12/2023	37		X		1	X	X														
BH70 0.2-0.3	14/12/2023			X		1			X													
BH71 0.0-0.1	14/12/2023	38		X		1	X															
BH71 0.1-0.2	14/12/2023			X		1			X													
BH72 0.0-0.1	14/12/2023	39		X		1	X															
BH72 0.3-0.4	14/12/2023			X		1			X													
BH73 0.0-0.1	14/12/2023	40		X		1	X															
BH73 0.2-0.3	14/12/2023			X		1			X													
BH74 0.0-0.1	14/12/2023	41		X		1	X															
BH74 0.1-0.2	14/12/2023			X		1			X													
BH75 0.0-0.1	14/12/2023	42		X		1	X															
BH75 0.1-0.2	14/12/2023			X		1			X													

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By:	Date/Time 20/12/23 @ 5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes) No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3												
BH76 0.0-0.1	14/12/2023	43		X		1	X																
BH76 0.2-0.3	14/12/2023			X		1			X														
BH77 0.0-0.1	14/12/2023	44		X		1	X																
BH77 0.4-0.5	14/12/2023			X		1			X														
GW01 0.0-0.1	12/11/2023	45		X		1			X														
GW01 0.5-0.6	12/11/2023			X		1			X														
GW01 1.0-1.1	12/11/2023			X		1			X														
GW01 2.0-2.1	12/11/2023			X		1			X														
GW02 0.0-0.1	12/11/2023			X		1			X														
GW02 0.5-0.6	12/11/2023			X		1			X														
GW02 1.0-1.1	12/11/2023			X		1			X														
GW02 2.0-2.1	12/11/2023			X		1			X														
GW03 0.0-0.1	12/11/2023			X		1			X														
GW03 0.5-0.6	12/11/2023			X		1			X														
GW03 1.0-1.1	12/11/2023			X		1			X														

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By: B. Rubaray	Date/Time 20/12/23 @ 5.25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3												
GW03 2.0-2.1	12/12/2023			X		1			X														
GW03 6.0-6.1	12/12/2023			X		1			X														
GW04 0.0-0.1	12/12/2023			X		1			X														
GW04 0.5-0.6	12/12/2023			X		1			X														
GW04 1.0-1.1	12/12/2023			X		1			X														
GW04 2.0-2.1	12/12/2023			X		1			X														
GW04 3.0-3.1	12/12/2023			X		1			X														
GW04 4.0-4.1	12/12/2023			X		1			X														
GW05 0.0-0.1	13/12/2023			X		1			X														
GW05 0.5-0.6	13/12/2023			X		1			X														
GW05 1.0-1.1	13/12/2023			X		1			X														
GW05 2.0-2.1	13/12/2023			X		1			X														
GW05 3.0-3.1	13/12/2023			X		1			X														
GW06 0.0-0.1	13/12/2023			X		1			X														
GW06 0.5-0.6	13/12/2023			X		1			X														

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By:	Date/Time 20/12/23 @ 15:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

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Alexandria NSW 2015
Telephone No: (02) 85940400
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Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3											
GW06 1.0-1.1	13/12/2023			X		1			X													
GW06 2.0-2.1	13/12/2023			X		1			X													
GW06 3.0-3.1	13/12/2023			X		1			X													
GW06 4.0-4.1	13/12/2023			X		1			X													
GW06 5.0-5.1	13/12/2023			X		1			X													
GW06 6.0-6.1	13/12/2023			X		1			X													
GW06 7.0-7.1	13/12/2023			X		1			X													
GW07 0.0-0.1	13/12/2023			X		1			X													
GW07 0.5-0.6	13/12/2023			X		1			X													
GW07 1.0-1.1	13/12/2023			X		1			X													
GW07 2.0-2.1	13/12/2023			X		1			X													
GW07 3.0-3.1	13/12/2023			X		1			X													
GW07 4.0-4.1	13/12/2023			X		1			X													
GW07 5.0-5.1	13/12/2023			X		1			X													
GW08 0.0-0.1	14/12/2023			X		1			X													

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By: B. Rubasoy	Date/Time 20/12/23 @ 5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes) No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SGS

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Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	CEMENT SHEET	NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3											
GW08 0.5-0.6	14/12/2023			X		1			X													
GW08 1.0-1.1	14/12/2023			X		1			X													
GW08 2.0-2.1	14/12/2023			X		1			X													
GW08 3.0-3.1	14/12/2023			X		1			X													
QC1	14/12/2023	45		X		1	X															
QC3	14/12/2023	46		X		1	X															
QC5	14/12/2023	47		X		1	X															
QC7	14/12/2023	48		X		1	X															
QC2	14/12/2023			X		1					X											
QC4	14/12/2023			X		1					X											PLEASE FORWARD TO ENVIROLAB SYDNEY
QC6	14/12/2023			X		1					X											

Relinquished By: S.Walsh	Date/Time: 20/12/23	Received By:	Date/Time 20/12/23 @ 5:25
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SAMPLE RECEIPT ADVICE

SE258536

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	48

LABORATORY DETAILS

Manager	Huong Crawford
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	Wed 20/12/2023
Report Due	Fri 19/1/2024
SGS Reference	**SE258536**

SUBMISSION DETAILS

This is to confirm that 48 samples were received on Wednesday 20/12/2023. Results are expected to be ready by COB Friday 19/1/2024.
Please quote SGS reference SE258536 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	48 Soil	Type of documentation received	COC
Date documentation received	20/12/2023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.8°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

Clay content subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146.
Report No.
89 Soil samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.
7 Extra samples received - GW8/4.0-4.1,GW8/5.0-5.1,GW8/6.0-6.1,GW8/7.0-7.1,GW8/8.0-8.1,GW8/9.0-9.1,GW5/4.0-4.1

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SAMPLE RECEIPT ADVICE

SE258536

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Speciated Phenols in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH34 0.0-0.1	30	14	26	11	18	10	11	7
002	BH35 0.0-0.1	30	14	26	11	18	10	11	7
003	BH36 0.0-0.1	30	14	26	11	18	10	11	7
004	BH37 0.0-0.1	30	14	26	11	18	10	11	7
005	BH38 0.0-0.1	30	14	26	11	18	10	11	7
006	BH39 0.0-0.1	30	14	26	11	18	10	11	7
007	BH40 0.0-0.1	30	14	26	11	18	10	11	7
008	BH41 0.0-0.1	30	14	26	11	18	10	11	7
009	BH42 0.0-0.1	30	14	26	11	18	10	11	7
010	BH43 0.0-0.1	30	14	26	11	18	10	11	7
011	BH44 0.0-0.1	30	14	26	11	18	10	11	7
012	BH45 0.0-0.1	30	14	26	11	18	10	11	7
013	BH46 0.0-0.1	30	14	26	11	18	10	11	7
014	BH47 0.0-0.1	30	14	26	11	18	10	11	7
015	BH48 0.0-0.1	30	14	26	11	18	10	11	7
016	BH49 0.0-0.1	30	14	26	11	18	10	11	7
017	BH50 0.0-0.1	30	14	26	11	18	10	11	7
018	BH51 0.0-0.1	30	14	26	11	18	10	11	7
019	BH52 0.0-0.1	30	14	26	11	18	10	11	7
020	BH53 0.0-0.1	30	14	26	11	18	10	11	7
021	BH54 0.0-0.1	30	14	26	11	18	10	11	7
022	BH55 0.0-0.1	30	14	26	11	18	10	11	7
023	BH56 0.0-0.1	30	14	26	11	18	10	11	7
024	BH57 0.0-0.1	30	14	26	11	18	10	11	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
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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

SE258536

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Speciated Phenols in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
025	BH58 0.0-0.1	30	14	26	11	18	10	11	7
026	BH59 0.0-0.1	30	14	26	11	18	10	11	7
027	BH60 0.0-0.1	30	14	26	11	18	10	11	7
028	BH61 0.0-0.1	30	14	26	11	18	10	11	7
029	BH62 0.0-0.1	30	14	26	11	18	10	11	7
030	BH63 0.0-0.1	30	14	26	11	18	10	11	7
031	BH64 0.0-0.1	30	14	26	11	18	10	11	7
032	BH65 0.0-0.1	30	14	26	11	18	10	11	7
033	BH66 0.0-0.1	30	14	26	11	18	10	11	7
034	BH67 0.0-0.1	30	14	26	11	18	10	11	7
035	BH68 0.0-0.1	30	14	26	11	18	10	11	7
036	BH69 0.0-0.1	30	14	26	11	18	10	11	7
037	BH70 0.0-0.1	30	14	26	11	18	10	11	7
038	BH71 0.0-0.1	30	14	26	11	18	10	11	7
039	BH72 0.0-0.1	30	14	26	11	18	10	11	7
040	BH73 0.0-0.1	30	14	26	11	18	10	11	7
041	BH74 0.0-0.1	30	14	26	11	18	10	11	7
042	BH75 0.0-0.1	30	14	26	11	18	10	11	7
043	BH76 0.0-0.1	30	14	26	11	18	10	11	7
044	BH77 0.0-0.1	30	14	26	11	18	10	11	7
045	QC1	30	14	26	11	18	10	11	7
046	QC3	30	14	26	11	18	10	11	7
047	QC5	30	14	26	11	18	10	11	7
048	QC7	30	14	26	11	18	10	11	7

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE258536

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Mercury in Soil	Moisture Content	Particle sizing of soils by sieving	pH in soil (1:5)	Total Recoverable Elements in Soil/Waste
001	BH34 0.0-0.1	-	1	1	-	-	7
002	BH35 0.0-0.1	-	1	1	-	-	7
003	BH36 0.0-0.1	-	1	1	-	-	7
004	BH37 0.0-0.1	-	1	1	-	-	7
005	BH38 0.0-0.1	-	1	1	-	-	7
006	BH39 0.0-0.1	-	1	1	-	-	7
007	BH40 0.0-0.1	-	1	1	-	-	7
008	BH41 0.0-0.1	-	1	1	-	-	7
009	BH42 0.0-0.1	13	1	1	2	1	7
010	BH43 0.0-0.1	-	1	1	-	-	7
011	BH44 0.0-0.1	-	1	1	-	-	7
012	BH45 0.0-0.1	-	1	1	-	-	7
013	BH46 0.0-0.1	-	1	1	-	-	7
014	BH47 0.0-0.1	-	1	1	-	-	7
015	BH48 0.0-0.1	-	1	1	-	-	7
016	BH49 0.0-0.1	-	1	1	-	-	7
017	BH50 0.0-0.1	-	1	1	-	-	7
018	BH51 0.0-0.1	-	1	1	-	-	7
019	BH52 0.0-0.1	-	1	1	-	-	7
020	BH53 0.0-0.1	-	1	1	-	-	7
021	BH54 0.0-0.1	-	1	1	-	-	7
022	BH55 0.0-0.1	-	1	1	-	-	7
023	BH56 0.0-0.1	-	1	1	-	-	7
024	BH57 0.0-0.1	-	1	1	-	-	7

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE258536

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Mercury in Soil	Moisture Content	Particle sizing of soils by sieving	pH in soil (1:5)	Total Recoverable Elements in Soil/Waste
025	BH58 0.0-0.1	-	1	1	-	-	7
026	BH59 0.0-0.1	13	1	1	2	1	7
027	BH60 0.0-0.1	-	1	1	-	-	7
028	BH61 0.0-0.1	-	1	1	-	-	7
029	BH62 0.0-0.1	-	1	1	-	-	7
030	BH63 0.0-0.1	-	1	1	-	-	7
031	BH64 0.0-0.1	-	1	1	-	-	7
032	BH65 0.0-0.1	-	1	1	-	-	7
033	BH66 0.0-0.1	-	1	1	-	-	7
034	BH67 0.0-0.1	-	1	1	-	-	7
035	BH68 0.0-0.1	-	1	1	-	-	7
036	BH69 0.0-0.1	-	1	1	-	-	7
037	BH70 0.0-0.1	13	1	1	2	1	7
038	BH71 0.0-0.1	-	1	1	-	-	7
039	BH72 0.0-0.1	-	1	1	-	-	7
040	BH73 0.0-0.1	-	1	1	-	-	7
041	BH74 0.0-0.1	-	1	1	-	-	7
042	BH75 0.0-0.1	-	1	1	-	-	7
043	BH76 0.0-0.1	-	1	1	-	-	7
044	BH77 0.0-0.1	-	1	1	-	-	7
045	QC1	-	1	1	-	-	7
046	QC3	-	1	1	-	-	7
047	QC5	-	1	1	-	-	7
048	QC7	-	1	1	-	-	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 .
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SAMPLE RECEIPT ADVICE

SE258536

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Particle sizing of soils <75µm by hydrometer
009	BH42 0.0-0.1	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
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SAMPLE RECEIPT ADVICE

SE258536

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Particle sizing of soils <75µm by hydrometer
026	BH59 0.0-0.1	1
037	BH70 0.0-0.1	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 .
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ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158 - Additional**
Order Number	**P23158**
Samples	48

LABORATORY DETAILS

Manager	Huong Crawford
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	**SE258536A R0**
Date Received	14/2/2024
Date Reported	21/2/2024

COMMENTS

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

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Ly Kim HA
Organic Section Head

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil [AN403] Tested: 16/2/2024

PARAMETER	UOM	LOR	BH41 0.0-0.1 SOIL - 13/12/2023 SE258536A.008	BH48 0.0-0.1 SOIL - 13/12/2023 SE258536A.015	BH55 0.0-0.1 SOIL - 13/12/2023 SE258536A.022	BH58 0.0-0.1 SOIL - 14/12/2023 SE258536A.025	BH63 0.0-0.1 SOIL - 14/12/2023 SE258536A.030
TRH C10-C14-Silica	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28-Silica	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36-Silica	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40-Silica	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16-Silica	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34-Silica (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40-Silica (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36-Silica	mg/kg	110	<110	<110	<110	<110	<110

PARAMETER	UOM	LOR	BH71 0.0-0.1 SOIL - 14/12/2023 SE258536A.038	BH76 0.0-0.1 SOIL - 14/12/2023 SE258536A.043
TRH C10-C14-Silica	mg/kg	20	<20	<20
TRH C15-C28-Silica	mg/kg	45	<45	<45
TRH C29-C36-Silica	mg/kg	45	<45	<45
TRH C37-C40-Silica	mg/kg	100	<100	<100
TRH >C10-C16-Silica	mg/kg	25	<25	<25
TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	<25	<25
TRH >C16-C34-Silica (F3)	mg/kg	90	<90	<90
TRH >C34-C40-Silica (F4)	mg/kg	120	<120	<120
TRH C10-C36-Silica	mg/kg	110	<110	<110

METHOD	METHODOLOGY SUMMARY
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.
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-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

FOOTNOTES

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

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Any holder of this document is advised that information contained hereon reflects the Company 's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or

STATEMENT OF QA/QC PERFORMANCE

SE258536A R0

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158 - Additional**
Order Number	**P23158**
Samples	48

LABORATORY DETAILS

Manager	Huong Crawford
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	**SE258536A R0**
Date Received	14 Feb 2024
Date Reported	21 Feb 2024

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil	7 items

SAMPLE SUMMARY

Sample counts by matrix	7 Soil	Type of documentation received	Email
Date documentation received	14/2/2024@12:35pr	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.8°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE258536A 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

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil — **Method: ME-(AU)-[ENV]AN403**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH41 0.0-0.1	SE258536A.008	LB304210	13 Dec 2023	14 Feb 2024	27 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024
BH48 0.0-0.1	SE258536A.015	LB304210	13 Dec 2023	14 Feb 2024	27 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024
BH55 0.0-0.1	SE258536A.022	LB304210	13 Dec 2023	14 Feb 2024	27 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024
BH58 0.0-0.1	SE258536A.025	LB304210	14 Dec 2023	14 Feb 2024	28 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024
BH63 0.0-0.1	SE258536A.030	LB304210	14 Dec 2023	14 Feb 2024	28 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024
BH71 0.0-0.1	SE258536A.038	LB304210	14 Dec 2023	14 Feb 2024	28 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024
BH76 0.0-0.1	SE258536A.043	LB304210	14 Dec 2023	14 Feb 2024	28 Dec 2023	16 Feb 2024†	27 Mar 2024	21 Feb 2024

SURROGATES

SE258536A R0

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

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.

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil — **Method: ME-(AU)-[ENV]AN403**

Sample Number	Parameter	Units	LOR	Result
LB304210.001	TRH C10-C14-Silica	mg/kg	20	<20
	TRH C15-C28-Silica	mg/kg	45	<45
	TRH C29-C36-Silica	mg/kg	45	<45
	TRH C37-C40-Silica	mg/kg	100	<100
	TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	<25
	TRH >C16-C34-Silica (F3)	mg/kg	90	<90
	TRH >C34-C40-Silica (F4)	mg/kg	120	<120

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil — **Method: ME-(AU)-[ENV]AN403**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE258536A.025	LB304210.014	TRH C10-C14-Silica	mg/kg	20	<20	<20	200	0
		TRH C15-C28-Silica	mg/kg	45	<45	<45	200	0
		TRH C29-C36-Silica	mg/kg	45	<45	<45	200	0
		TRH C37-C40-Silica	mg/kg	100	<100	<100	200	0
		TRH C10-C36-Silica	mg/kg	110	<110	<110	200	0
		TRH >C10-C16-Silica	mg/kg	25	<25	<25	200	0
		TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	<25	<25	200	0
		TRH >C16-C34-Silica (F3)	mg/kg	90	<90	<90	200	0
		TRH >C34-C40-Silica (F4)	mg/kg	120	<120	<120	200	0
SE258536A.043	LB304210.018	TRH C10-C14-Silica	mg/kg	20	<20	<20	200	0
		TRH C15-C28-Silica	mg/kg	45	<45	<45	200	0
		TRH C29-C36-Silica	mg/kg	45	<45	<45	185	0
		TRH C37-C40-Silica	mg/kg	100	<100	<100	200	0
		TRH C10-C36-Silica	mg/kg	110	<110	<110	200	0
		TRH >C10-C16-Silica	mg/kg	25	<25	<25	200	0
		TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	<25	<25	200	0
		TRH >C16-C34-Silica (F3)	mg/kg	90	<90	<90	200	0
		TRH >C34-C40-Silica (F4)	mg/kg	120	<120	<120	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.

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil — **Method: ME-(AU)-[ENV]AN403**

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB304210.002	TRH C10-C14-Silica	mg/kg	20	43	40	70 - 130	106
	TRH C15-C28-Silica	mg/kg	45	<45	40	70 - 130	105
	TRH C29-C36-Silica	mg/kg	45	<45	40	70 - 130	89
	TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	45	40	70 - 130	112
	TRH >C16-C34-Silica (F3)	mg/kg	90	<90	40	70 - 130	100
	TRH >C34-C40-Silica (F4)	mg/kg	120	<120	20	70 - 130	87

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Soil — **Method: ME-(AU)-[ENV]AN403**

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE258534A.011	LB304210.004	TRH C10-C14-Silica	mg/kg	20	52	<20	40	121
		TRH C15-C28-Silica	mg/kg	45	51	<45	40	123
		TRH C29-C36-Silica	mg/kg	45	<45	<45	40	76
		TRH C10-C36-Silica	mg/kg	110	140	<110	-	-
		TRH >C10-C16-Silica	mg/kg	25	53	<25	-	-
		TRH >C10-C16-Silica minus Naphthalene (F2)	mg/kg	25	53	<25	-	-
		TRH >C16-C34-Silica (F3)	mg/kg	90	<90	<90	-	-
		TRH >C34-C40-Silica (F4)	mg/kg	120	<120	<120	-	-

MATRIX SPIKE DUPLICATES

SE258536A R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.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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source: SE_Autoscan.pdf page: 1 SGS Ref: SE258536A_COC

Yin, Emily (Sydney)

From: Samantha Walsh <Samantha@lanterra.com.au>
Sent: Wednesday, 14 February 2024 12:35 PM
To: AU.SampleReceipt.Sydney, AU (Sydney); AU.Environmental.Sydney, AU (Sydney)
Subject: [EXTERNAL] Silica Gel Cleanup - SE258534, SE258536, SE259897

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hello

Can I please get silica gel cleanups on the following samples:

SE258534

- BH11
- BH14
- BH19
- BH20
- BH21
- BH29

SGS EHS Alexandria Laboratory
SE258536A COC
Received: 14 – Feb – 2024

SE258536

- BH41
- BH48
- BH55
- BH58
- BH63
- BH71
- BH76

SE259897

- GW2
- GW7

On standard turnaround time please.

Thanks
Sam

Kind Regards,
Samantha Walsh | Senior Environmental Scientist | BAppSc | GradCertSc (Hydrogeology)
Lanterra Consulting Pty Ltd

SAMPLE RECEIPT ADVICE

SE258536A

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158 - Additional**
Order Number	**P23158**
Samples	48

LABORATORY DETAILS

Manager	Huong Crawford
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	Wed 14/2/2024
Report Due	Wed 21/2/2024
SGS Reference	**SE258536A**

SUBMISSION DETAILS

This is to confirm that 48 samples were received on Wednesday 14/2/2024. Results are expected to be ready by COB Wednesday 21/2/2024. Please quote SGS reference SE258536A when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	7 Soil	Type of documentation received	Email
Date documentation received	14/2/2024@12:35pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.8°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

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SAMPLE RECEIPT ADVICE

SE258536A

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158 - Additional

SUMMARY OF ANALYSIS

No.	Sample ID	TRH Silica Gel (Total Recoverable
008	BH41 0.0-0.1	9
015	BH48 0.0-0.1	9
022	BH55 0.0-0.1	9

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

SE258536A

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158 - Additional

SUMMARY OF ANALYSIS

No.	Sample ID	TRH Silica Gel (Total Recoverable
025	BH58 0.0-0.1	9
030	BH63 0.0-0.1	9
038	BH71 0.0-0.1	9
043	BH76 0.0-0.1	9

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 .

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Leonardo Baeza
Client	LANTERRA CONSULTING PTY LTD
Address	PO BOX 3626 ACT 2611
Telephone	0412 823 931
Facsimile	(Not specified)
Email	leonardo.baeza@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	41

LABORATORY DETAILS

Manager	Huong Crawford
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	**SE259505 R0**
Date Received	23/1/2024
Date Reported	1/2/2024

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 Identifiers Ravee Sivasubramaniam and Yusuf Kuthpudin .

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Huong CRAWFORD
Production Manager

Kamrul AHSAN
Senior Chemist

Ly Kim HA
Organic Section Head

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

Shane MCDERMOTT
Inorganic/Metals Chemist

VOC's in Soil [AN433] Tested: 24/1/2024

PARAMETER	UOM	LOR	LC1 0.0-0.1 SOIL - 18/1/2024 SE259505.001	LC2 0.0-0.1 SOIL - 18/1/2024 SE259505.002	LC3 0.0-0.1 SOIL - 18/1/2024 SE259505.003	LC4 0.0-0.1 SOIL - 18/1/2024 SE259505.004	LC5 0.0-0.1 SOIL - 18/1/2024 SE259505.005
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	LC6 0.0-0.1 SOIL - 18/1/2024 SE259505.006	LC7 0.0-0.1 SOIL - 18/1/2024 SE259505.007	LC8 0.0-0.1 SOIL - 18/1/2024 SE259505.008	LC9 0.5-0.6 SOIL - 18/1/2024 SE259505.009	LC10 0.0-0.1 SOIL - 18/1/2024 SE259505.010
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	LC11 0.0-0.1 SOIL - 18/1/2024 SE259505.011	LC12 0.0-0.1 SOIL - 18/1/2024 SE259505.012	LC13 0.5-0.6 SOIL - 18/1/2024 SE259505.013	LC14 0.0-0.1 SOIL - 18/1/2024 SE259505.014	LC15 0.0-0.1 SOIL - 18/1/2024 SE259505.015
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	LC16 0.0-0.1 SOIL - 18/1/2024 SE259505.016	LC17 0.5-0.6 SOIL - 18/1/2024 SE259505.017	LC18 0.0-0.1 SOIL - 18/1/2024 SE259505.018	LC19 0.0-0.1 SOIL - 18/1/2024 SE259505.019	LC20 0.0-0.1 SOIL - 18/1/2024 SE259505.020
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
Naphthalene (VOC)*	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

VOC's in Soil [AN433] Tested: 24/1/2024 (continued)

PARAMETER	UOM	LOR	LC21 0.5-0.6 SOIL - 18/1/2024 SE259505.021	LC22 0.0-0.1 SOIL - 19/1/2024 SE259505.022	LC23 0.0-0.1 SOIL - 19/1/2024 SE259505.023	LC24 0.0-0.1 SOIL - 19/1/2024 SE259505.024	LC25 0.0-0.1 SOIL - 19/1/2024 SE259505.025
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	LC26 0.0-0.1 SOIL - 19/1/2024 SE259505.026	LC27 0.0-0.1 SOIL - 19/1/2024 SE259505.027	LC28 0.0-0.1 SOIL - 19/1/2024 SE259505.028	LC29 0.0-0.1 SOIL - 19/1/2024 SE259505.029	LC30 0.0-0.1 SOIL - 19/1/2024 SE259505.030
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	LC31 0.0-0.1 SOIL - 19/1/2024 SE259505.031	LC32 0.0-0.1 SOIL - 19/1/2024 SE259505.032	LC33 0.0-0.1 SOIL - 19/1/2024 SE259505.033	LC34 0.5-0.6 SOIL - 19/1/2024 SE259505.034	LC35 0.0-0.1 SOIL - 19/1/2024 SE259505.035
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
Naphthalene (VOC)*	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

PARAMETER	UOM	LOR	LC36 0.0-0.1 SOIL - 19/1/2024 SE259505.036	LC37 0.0-0.1 SOIL - 19/1/2024 SE259505.037	QC1 SOIL - 18/1/2024 SE259505.038	QC3 SOIL - 19/1/2024 SE259505.039
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	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
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 24/1/2024

PARAMETER	UOM	LOR	LC1 0.0-0.1 SOIL - 18/1/2024 SE259505.001	LC2 0.0-0.1 SOIL - 18/1/2024 SE259505.002	LC3 0.0-0.1 SOIL - 18/1/2024 SE259505.003	LC4 0.0-0.1 SOIL - 18/1/2024 SE259505.004	LC5 0.0-0.1 SOIL - 18/1/2024 SE259505.005
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	LC6 0.0-0.1 SOIL - 18/1/2024 SE259505.006	LC7 0.0-0.1 SOIL - 18/1/2024 SE259505.007	LC8 0.0-0.1 SOIL - 18/1/2024 SE259505.008	LC9 0.5-0.6 SOIL - 18/1/2024 SE259505.009	LC10 0.0-0.1 SOIL - 18/1/2024 SE259505.010
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	LC11 0.0-0.1 SOIL - 18/1/2024 SE259505.011	LC12 0.0-0.1 SOIL - 18/1/2024 SE259505.012	LC13 0.5-0.6 SOIL - 18/1/2024 SE259505.013	LC14 0.0-0.1 SOIL - 18/1/2024 SE259505.014	LC15 0.0-0.1 SOIL - 18/1/2024 SE259505.015
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	LC16 0.0-0.1 SOIL - 18/1/2024 SE259505.016	LC17 0.5-0.6 SOIL - 18/1/2024 SE259505.017	LC18 0.0-0.1 SOIL - 18/1/2024 SE259505.018	LC19 0.0-0.1 SOIL - 18/1/2024 SE259505.019	LC20 0.0-0.1 SOIL - 18/1/2024 SE259505.020
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	LC21 0.5-0.6 SOIL - 18/1/2024 SE259505.021	LC22 0.0-0.1 SOIL - 19/1/2024 SE259505.022	LC23 0.0-0.1 SOIL - 19/1/2024 SE259505.023	LC24 0.0-0.1 SOIL - 19/1/2024 SE259505.024	LC25 0.0-0.1 SOIL - 19/1/2024 SE259505.025
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	LC26 0.0-0.1 SOIL - 19/1/2024 SE259505.026	LC27 0.0-0.1 SOIL - 19/1/2024 SE259505.027	LC28 0.0-0.1 SOIL - 19/1/2024 SE259505.028	LC29 0.0-0.1 SOIL - 19/1/2024 SE259505.029	LC30 0.0-0.1 SOIL - 19/1/2024 SE259505.030
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 24/1/2024 (continued)

PARAMETER	UOM	LOR	LC31 0.0-0.1 SOIL - 19/1/2024 SE259505.031	LC32 0.0-0.1 SOIL - 19/1/2024 SE259505.032	LC33 0.0-0.1 SOIL - 19/1/2024 SE259505.033	LC34 0.5-0.6 SOIL - 19/1/2024 SE259505.034	LC35 0.0-0.1 SOIL - 19/1/2024 SE259505.035
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
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	LC36 0.0-0.1 SOIL - 19/1/2024 SE259505.036	LC37 0.0-0.1 SOIL - 19/1/2024 SE259505.037	QC1 SOIL - 18/1/2024 SE259505.038	QC3 SOIL - 19/1/2024 SE259505.039
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20
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: 23/1/2024

PARAMETER	UOM	LOR	LC1 0.0-0.1 SOIL - 18/1/2024 SE259505.001	LC2 0.0-0.1 SOIL - 18/1/2024 SE259505.002	LC3 0.0-0.1 SOIL - 18/1/2024 SE259505.003	LC4 0.0-0.1 SOIL - 18/1/2024 SE259505.004	LC5 0.0-0.1 SOIL - 18/1/2024 SE259505.005
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	LC6 0.0-0.1 SOIL - 18/1/2024 SE259505.006	LC7 0.0-0.1 SOIL - 18/1/2024 SE259505.007	LC8 0.0-0.1 SOIL - 18/1/2024 SE259505.008	LC9 0.5-0.6 SOIL - 18/1/2024 SE259505.009	LC10 0.0-0.1 SOIL - 18/1/2024 SE259505.010
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	LC11 0.0-0.1 SOIL - 18/1/2024 SE259505.011	LC12 0.0-0.1 SOIL - 18/1/2024 SE259505.012	LC13 0.5-0.6 SOIL - 18/1/2024 SE259505.013	LC14 0.0-0.1 SOIL - 18/1/2024 SE259505.014	LC15 0.0-0.1 SOIL - 18/1/2024 SE259505.015
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

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC16 0.0-0.1 SOIL - 18/1/2024 SE259505.016	LC17 0.5-0.6 SOIL - 18/1/2024 SE259505.017	LC18 0.0-0.1 SOIL - 18/1/2024 SE259505.018	LC19 0.0-0.1 SOIL - 18/1/2024 SE259505.019	LC20 0.0-0.1 SOIL - 18/1/2024 SE259505.020
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	LC21 0.5-0.6 SOIL - 18/1/2024 SE259505.021	LC22 0.0-0.1 SOIL - 19/1/2024 SE259505.022	LC23 0.0-0.1 SOIL - 19/1/2024 SE259505.023	LC24 0.0-0.1 SOIL - 19/1/2024 SE259505.024	LC25 0.0-0.1 SOIL - 19/1/2024 SE259505.025
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	LC26 0.0-0.1 SOIL - 19/1/2024 SE259505.026	LC27 0.0-0.1 SOIL - 19/1/2024 SE259505.027	LC28 0.0-0.1 SOIL - 19/1/2024 SE259505.028	LC29 0.0-0.1 SOIL - 19/1/2024 SE259505.029	LC30 0.0-0.1 SOIL - 19/1/2024 SE259505.030
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

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC31 0.0-0.1 SOIL - 19/1/2024 SE259505.031	LC32 0.0-0.1 SOIL - 19/1/2024 SE259505.032	LC33 0.0-0.1 SOIL - 19/1/2024 SE259505.033	LC34 0.5-0.6 SOIL - 19/1/2024 SE259505.034	LC35 0.0-0.1 SOIL - 19/1/2024 SE259505.035
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	**61**	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	**70**	<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	**110**	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	**130**	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	LC36 0.0-0.1 SOIL - 19/1/2024 SE259505.036	LC37 0.0-0.1 SOIL - 19/1/2024 SE259505.037	QC1 SOIL - 18/1/2024 SE259505.038	QC3 SOIL - 19/1/2024 SE259505.039
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: 23/1/2024

PARAMETER	UOM	LOR	LC1 0.0-0.1 SOIL - 18/1/2024 SE259505.001	LC2 0.0-0.1 SOIL - 18/1/2024 SE259505.002	LC3 0.0-0.1 SOIL - 18/1/2024 SE259505.003	LC4 0.0-0.1 SOIL - 18/1/2024 SE259505.004	LC5 0.0-0.1 SOIL - 18/1/2024 SE259505.005
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	LC6 0.0-0.1 SOIL - 18/1/2024 SE259505.006	LC7 0.0-0.1 SOIL - 18/1/2024 SE259505.007	LC8 0.0-0.1 SOIL - 18/1/2024 SE259505.008	LC9 0.5-0.6 SOIL - 18/1/2024 SE259505.009	LC10 0.0-0.1 SOIL - 18/1/2024 SE259505.010
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: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC11 0.0-0.1 SOIL - 18/1/2024 SE259505.011	LC12 0.0-0.1 SOIL - 18/1/2024 SE259505.012	LC13 0.5-0.6 SOIL - 18/1/2024 SE259505.013	LC14 0.0-0.1 SOIL - 18/1/2024 SE259505.014	LC15 0.0-0.1 SOIL - 18/1/2024 SE259505.015
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	LC16 0.0-0.1 SOIL - 18/1/2024 SE259505.016	LC17 0.5-0.6 SOIL - 18/1/2024 SE259505.017	LC18 0.0-0.1 SOIL - 18/1/2024 SE259505.018	LC19 0.0-0.1 SOIL - 18/1/2024 SE259505.019	LC20 0.0-0.1 SOIL - 18/1/2024 SE259505.020
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: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC21 0.5-0.6 SOIL - 18/1/2024 SE259505.021	LC22 0.0-0.1 SOIL - 19/1/2024 SE259505.022	LC23 0.0-0.1 SOIL - 19/1/2024 SE259505.023	LC24 0.0-0.1 SOIL - 19/1/2024 SE259505.024	LC25 0.0-0.1 SOIL - 19/1/2024 SE259505.025
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	LC26 0.0-0.1 SOIL - 19/1/2024 SE259505.026	LC27 0.0-0.1 SOIL - 19/1/2024 SE259505.027	LC28 0.0-0.1 SOIL - 19/1/2024 SE259505.028	LC29 0.0-0.1 SOIL - 19/1/2024 SE259505.029	LC30 0.0-0.1 SOIL - 19/1/2024 SE259505.030
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: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC31 0.0-0.1 SOIL - 19/1/2024 SE259505.031	LC32 0.0-0.1 SOIL - 19/1/2024 SE259505.032	LC33 0.0-0.1 SOIL - 19/1/2024 SE259505.033	LC34 0.5-0.6 SOIL - 19/1/2024 SE259505.034	LC35 0.0-0.1 SOIL - 19/1/2024 SE259505.035
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	LC36 0.0-0.1 SOIL - 19/1/2024 SE259505.036	LC37 0.0-0.1 SOIL - 19/1/2024 SE259505.037	QC1 SOIL - 18/1/2024 SE259505.038	QC3 SOIL - 19/1/2024 SE259505.039
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	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
Chrysene	mg/kg	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
Benzo(k)fluoranthene	mg/kg	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
Indeno(1,2,3-cd)pyrene	mg/kg	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
Benzo(ghi)perylene	mg/kg	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
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	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
Total PAH (18)	mg/kg	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

Speciated Phenols in Soil [AN420] Tested: 23/1/2024

PARAMETER	UOM	LOR	LC1 0.0-0.1 SOIL - 18/1/2024 SE259505.001	LC2 0.0-0.1 SOIL - 18/1/2024 SE259505.002	LC3 0.0-0.1 SOIL - 18/1/2024 SE259505.003	LC4 0.0-0.1 SOIL - 18/1/2024 SE259505.004	LC5 0.0-0.1 SOIL - 18/1/2024 SE259505.005
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	LC6 0.0-0.1 SOIL - 18/1/2024 SE259505.006	LC7 0.0-0.1 SOIL - 18/1/2024 SE259505.007	LC8 0.0-0.1 SOIL - 18/1/2024 SE259505.008	LC14 0.0-0.1 SOIL - 18/1/2024 SE259505.014	LC15 0.0-0.1 SOIL - 18/1/2024 SE259505.015
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC16 0.0-0.1 SOIL - 18/1/2024 SE259505.016	LC17 0.5-0.6 SOIL - 18/1/2024 SE259505.017	LC18 0.0-0.1 SOIL - 18/1/2024 SE259505.018	LC19 0.0-0.1 SOIL - 18/1/2024 SE259505.019	LC20 0.0-0.1 SOIL - 18/1/2024 SE259505.020
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	LC21 0.5-0.6 SOIL - 18/1/2024 SE259505.021	LC22 0.0-0.1 SOIL - 19/1/2024 SE259505.022	LC23 0.0-0.1 SOIL - 19/1/2024 SE259505.023	LC24 0.0-0.1 SOIL - 19/1/2024 SE259505.024	LC25 0.0-0.1 SOIL - 19/1/2024 SE259505.025
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC26 0.0-0.1 SOIL - 19/1/2024 SE259505.026	LC27 0.0-0.1 SOIL - 19/1/2024 SE259505.027	LC28 0.0-0.1 SOIL - 19/1/2024 SE259505.028	LC29 0.0-0.1 SOIL - 19/1/2024 SE259505.029	LC30 0.0-0.1 SOIL - 19/1/2024 SE259505.030
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	LC31 0.0-0.1 SOIL - 19/1/2024 SE259505.031	LC32 0.0-0.1 SOIL - 19/1/2024 SE259505.032	LC33 0.0-0.1 SOIL - 19/1/2024 SE259505.033	LC34 0.5-0.6 SOIL - 19/1/2024 SE259505.034	LC35 0.0-0.1 SOIL - 19/1/2024 SE259505.035
Phenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	<1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	<1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2	<2	<2	<2

Speciated Phenols in Soil [AN420] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC36 0.0-0.1 SOIL - 19/1/2024 SE259505.036	LC37 0.0-0.1 SOIL - 19/1/2024 SE259505.037
Phenol	mg/kg	0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1
Total Cresol	mg/kg	1.5	<1.5	<1.5
2-chlorophenol	mg/kg	0.5	<0.5	<0.5
2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5
2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5
2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5
2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5
2-nitrophenol	mg/kg	0.5	<0.5	<0.5
4-nitrophenol	mg/kg	1	<1	<1
2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1
Pentachlorophenol	mg/kg	0.5	<0.5	<0.5
2,4-dinitrophenol	mg/kg	2	<2	<2
4-chloro-3-methylphenol	mg/kg	2	<2	<2

OC Pesticides in Soil [AN420] Tested: 23/1/2024

PARAMETER	UOM	LOR	LC1 0.0-0.1 SOIL - 18/1/2024 SE259505.001	LC2 0.0-0.1 SOIL - 18/1/2024 SE259505.002	LC3 0.0-0.1 SOIL - 18/1/2024 SE259505.003	LC4 0.0-0.1 SOIL - 18/1/2024 SE259505.004	LC5 0.0-0.1 SOIL - 18/1/2024 SE259505.005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC6 0.0-0.1 SOIL - 18/1/2024 SE259505.006	LC7 0.0-0.1 SOIL - 18/1/2024 SE259505.007	LC8 0.0-0.1 SOIL - 18/1/2024 SE259505.008	LC14 0.0-0.1 SOIL - 18/1/2024 SE259505.014	LC15 0.0-0.1 SOIL - 18/1/2024 SE259505.015
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC16 0.0-0.1 SOIL - 18/1/2024 SE259505.016	LC17 0.5-0.6 SOIL - 18/1/2024 SE259505.017	LC18 0.0-0.1 SOIL - 18/1/2024 SE259505.018	LC19 0.0-0.1 SOIL - 18/1/2024 SE259505.019	LC20 0.0-0.1 SOIL - 18/1/2024 SE259505.020
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC21 0.5-0.6 SOIL - 18/1/2024 SE259505.021	LC22 0.0-0.1 SOIL - 19/1/2024 SE259505.022	LC23 0.0-0.1 SOIL - 19/1/2024 SE259505.023	LC24 0.0-0.1 SOIL - 19/1/2024 SE259505.024	LC25 0.0-0.1 SOIL - 19/1/2024 SE259505.025
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC26 0.0-0.1 SOIL - 19/1/2024 SE259505.026	LC27 0.0-0.1 SOIL - 19/1/2024 SE259505.027	LC28 0.0-0.1 SOIL - 19/1/2024 SE259505.028	LC29 0.0-0.1 SOIL - 19/1/2024 SE259505.029	LC30 0.0-0.1 SOIL - 19/1/2024 SE259505.030
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC31 0.0-0.1 SOIL - 19/1/2024 SE259505.031	LC32 0.0-0.1 SOIL - 19/1/2024 SE259505.032	LC33 0.0-0.1 SOIL - 19/1/2024 SE259505.033	LC34 0.5-0.6 SOIL - 19/1/2024 SE259505.034	LC35 0.0-0.1 SOIL - 19/1/2024 SE259505.035
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha 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
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
Beta 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 epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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
trans-Nonachlor	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	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	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
Endosulfan sulphate	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
Methoxychlor	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
Isodrin	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 CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC36 0.0-0.1 SOIL - 19/1/2024 SE259505.036	LC37 0.0-0.1 SOIL - 19/1/2024 SE259505.037
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1

OP Pesticides in Soil [AN420] Tested: 23/1/2024

PARAMETER	UOM	LOR	LC1 0.0-0.1 SOIL - 18/1/2024 SE259505.001	LC2 0.0-0.1 SOIL - 18/1/2024 SE259505.002	LC3 0.0-0.1 SOIL - 18/1/2024 SE259505.003	LC4 0.0-0.1 SOIL - 18/1/2024 SE259505.004	LC5 0.0-0.1 SOIL - 18/1/2024 SE259505.005
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	LC6 0.0-0.1 SOIL - 18/1/2024 SE259505.006	LC7 0.0-0.1 SOIL - 18/1/2024 SE259505.007	LC8 0.0-0.1 SOIL - 18/1/2024 SE259505.008	LC14 0.0-0.1 SOIL - 18/1/2024 SE259505.014	LC15 0.0-0.1 SOIL - 18/1/2024 SE259505.015
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	LC16 0.0-0.1 SOIL - 18/1/2024 SE259505.016	LC17 0.5-0.6 SOIL - 18/1/2024 SE259505.017	LC18 0.0-0.1 SOIL - 18/1/2024 SE259505.018	LC19 0.0-0.1 SOIL - 18/1/2024 SE259505.019	LC20 0.0-0.1 SOIL - 18/1/2024 SE259505.020
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: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC21 0.5-0.6 SOIL - 18/1/2024 SE259505.021	LC22 0.0-0.1 SOIL - 19/1/2024 SE259505.022	LC23 0.0-0.1 SOIL - 19/1/2024 SE259505.023	LC24 0.0-0.1 SOIL - 19/1/2024 SE259505.024	LC25 0.0-0.1 SOIL - 19/1/2024 SE259505.025
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	LC26 0.0-0.1 SOIL - 19/1/2024 SE259505.026	LC27 0.0-0.1 SOIL - 19/1/2024 SE259505.027	LC28 0.0-0.1 SOIL - 19/1/2024 SE259505.028	LC29 0.0-0.1 SOIL - 19/1/2024 SE259505.029	LC30 0.0-0.1 SOIL - 19/1/2024 SE259505.030
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	LC31 0.0-0.1 SOIL - 19/1/2024 SE259505.031	LC32 0.0-0.1 SOIL - 19/1/2024 SE259505.032	LC33 0.0-0.1 SOIL - 19/1/2024 SE259505.033	LC34 0.5-0.6 SOIL - 19/1/2024 SE259505.034	LC35 0.0-0.1 SOIL - 19/1/2024 SE259505.035
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: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC36 0.0-0.1 SOIL - 19/1/2024 SE259505.036	LC37 0.0-0.1 SOIL - 19/1/2024 SE259505.037
Dichlorvos	mg/kg	0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7

PCBs in Soil [AN420] Tested: 23/1/2024

PARAMETER	UOM	LOR	LC1 0.0-0.1 SOIL - 18/1/2024 SE259505.001	LC2 0.0-0.1 SOIL - 18/1/2024 SE259505.002	LC3 0.0-0.1 SOIL - 18/1/2024 SE259505.003	LC4 0.0-0.1 SOIL - 18/1/2024 SE259505.004	LC5 0.0-0.1 SOIL - 18/1/2024 SE259505.005
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	LC6 0.0-0.1 SOIL - 18/1/2024 SE259505.006	LC7 0.0-0.1 SOIL - 18/1/2024 SE259505.007	LC8 0.0-0.1 SOIL - 18/1/2024 SE259505.008	LC14 0.0-0.1 SOIL - 18/1/2024 SE259505.014	LC15 0.0-0.1 SOIL - 18/1/2024 SE259505.015
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	LC16 0.0-0.1 SOIL - 18/1/2024 SE259505.016	LC17 0.5-0.6 SOIL - 18/1/2024 SE259505.017	LC18 0.0-0.1 SOIL - 18/1/2024 SE259505.018	LC19 0.0-0.1 SOIL - 18/1/2024 SE259505.019	LC20 0.0-0.1 SOIL - 18/1/2024 SE259505.020
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC21 0.5-0.6 SOIL - 18/1/2024 SE259505.021	LC22 0.0-0.1 SOIL - 19/1/2024 SE259505.022	LC23 0.0-0.1 SOIL - 19/1/2024 SE259505.023	LC24 0.0-0.1 SOIL - 19/1/2024 SE259505.024	LC25 0.0-0.1 SOIL - 19/1/2024 SE259505.025
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	LC26 0.0-0.1 SOIL - 19/1/2024 SE259505.026	LC27 0.0-0.1 SOIL - 19/1/2024 SE259505.027	LC28 0.0-0.1 SOIL - 19/1/2024 SE259505.028	LC29 0.0-0.1 SOIL - 19/1/2024 SE259505.029	LC30 0.0-0.1 SOIL - 19/1/2024 SE259505.030
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	LC31 0.0-0.1 SOIL - 19/1/2024 SE259505.031	LC32 0.0-0.1 SOIL - 19/1/2024 SE259505.032	LC33 0.0-0.1 SOIL - 19/1/2024 SE259505.033	LC34 0.5-0.6 SOIL - 19/1/2024 SE259505.034	LC35 0.0-0.1 SOIL - 19/1/2024 SE259505.035
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 23/1/2024 (continued)

PARAMETER	UOM	LOR	LC36 0.0-0.1 SOIL - 19/1/2024 SE259505.036	LC37 0.0-0.1 SOIL - 19/1/2024 SE259505.037
Arochlor 1016	mg/kg	0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/1/2024

PARAMETER	UOM	LOR	LC1 0.0-0.1 SOIL - 18/1/2024 SE259505.001	LC2 0.0-0.1 SOIL - 18/1/2024 SE259505.002	LC3 0.0-0.1 SOIL - 18/1/2024 SE259505.003	LC4 0.0-0.1 SOIL - 18/1/2024 SE259505.004	LC5 0.0-0.1 SOIL - 18/1/2024 SE259505.005
Arsenic, As	mg/kg	1	5	7	4	10	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	2.6	6.9	6.1	6.0	4.0
Copper, Cu	mg/kg	0.5	33	50	20	29	37
Lead, Pb	mg/kg	1	6	15	9	11	7
Nickel, Ni	mg/kg	0.5	2.6	10	6.0	9.1	4.3
Zinc, Zn	mg/kg	2	57	73	39	38	49

PARAMETER	UOM	LOR	LC6 0.0-0.1 SOIL - 18/1/2024 SE259505.006	LC7 0.0-0.1 SOIL - 18/1/2024 SE259505.007	LC8 0.0-0.1 SOIL - 18/1/2024 SE259505.008	LC9 0.5-0.6 SOIL - 18/1/2024 SE259505.009	LC10 0.0-0.1 SOIL - 18/1/2024 SE259505.010
Arsenic, As	mg/kg	1	5	5	5	10	9
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	5.1	5.2	4.7	12	10
Copper, Cu	mg/kg	0.5	36	28	24	26	33
Lead, Pb	mg/kg	1	7	8	9	12	9
Nickel, Ni	mg/kg	0.5	5.9	4.6	4.0	9.3	8.3
Zinc, Zn	mg/kg	2	55	69	38	55	43

PARAMETER	UOM	LOR	LC11 0.0-0.1 SOIL - 18/1/2024 SE259505.011	LC12 0.0-0.1 SOIL - 18/1/2024 SE259505.012	LC13 0.5-0.6 SOIL - 18/1/2024 SE259505.013	LC14 0.0-0.1 SOIL - 18/1/2024 SE259505.014	LC15 0.0-0.1 SOIL - 18/1/2024 SE259505.015
Arsenic, As	mg/kg	1	8	10	5	6	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	10	12	17	11	5.5
Copper, Cu	mg/kg	0.5	20	38	23	27	21
Lead, Pb	mg/kg	1	11	10	11	13	8
Nickel, Ni	mg/kg	0.5	7.1	8.4	8.4	8.8	2.9
Zinc, Zn	mg/kg	2	38	64	27	41	15

PARAMETER	UOM	LOR	LC16 0.0-0.1 SOIL - 18/1/2024 SE259505.016	LC17 0.5-0.6 SOIL - 18/1/2024 SE259505.017	LC18 0.0-0.1 SOIL - 18/1/2024 SE259505.018	LC19 0.0-0.1 SOIL - 18/1/2024 SE259505.019	LC20 0.0-0.1 SOIL - 18/1/2024 SE259505.020
Arsenic, As	mg/kg	1	2	3	2	4	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	6.2	4.9	5.5	8.2	10
Copper, Cu	mg/kg	0.5	7.3	13	12	12	13
Lead, Pb	mg/kg	1	7	10	5	9	14
Nickel, Ni	mg/kg	0.5	3.8	3.7	9.5	7.2	8.1
Zinc, Zn	mg/kg	2	44	9.4	26	26	33

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/1/2024

(continued)

PARAMETER	UOM	LOR	LC21 0.5-0.6 SOIL - 18/1/2024 SE259505.021	LC22 0.0-0.1 SOIL - 19/1/2024 SE259505.022	LC23 0.0-0.1 SOIL - 19/1/2024 SE259505.023	LC24 0.0-0.1 SOIL - 19/1/2024 SE259505.024	LC25 0.0-0.1 SOIL - 19/1/2024 SE259505.025
Arsenic, As	mg/kg	1	5	4	4	4	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	0.3
Chromium, Cr	mg/kg	0.5	17	6.1	18	27	26
Copper, Cu	mg/kg	0.5	21	13	17	24	27
Lead, Pb	mg/kg	1	22	10	12	9	21
Nickel, Ni	mg/kg	0.5	4.7	3.1	11	6.2	6.9
Zinc, Zn	mg/kg	2	15	22	21	20	100

PARAMETER	UOM	LOR	LC26 0.0-0.1 SOIL - 19/1/2024 SE259505.026	LC27 0.0-0.1 SOIL - 19/1/2024 SE259505.027	LC28 0.0-0.1 SOIL - 19/1/2024 SE259505.028	LC29 0.0-0.1 SOIL - 19/1/2024 SE259505.029	LC30 0.0-0.1 SOIL - 19/1/2024 SE259505.030
Arsenic, As	mg/kg	1	6	3	3	5	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	20	22	21	27	130
Copper, Cu	mg/kg	0.5	9.7	11	20	25	22
Lead, Pb	mg/kg	1	26	8	12	28	3
Nickel, Ni	mg/kg	0.5	6.1	6.6	6.1	10	84
Zinc, Zn	mg/kg	2	34	44	30	94	65

PARAMETER	UOM	LOR	LC31 0.0-0.1 SOIL - 19/1/2024 SE259505.031	LC32 0.0-0.1 SOIL - 19/1/2024 SE259505.032	LC33 0.0-0.1 SOIL - 19/1/2024 SE259505.033	LC34 0.5-0.6 SOIL - 19/1/2024 SE259505.034	LC35 0.0-0.1 SOIL - 19/1/2024 SE259505.035
Arsenic, As	mg/kg	1	2	4	8	6	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	120	8.6	5.0	1.0	18
Copper, Cu	mg/kg	0.5	19	18	24	49	27
Lead, Pb	mg/kg	1	2	18	5	1	13
Nickel, Ni	mg/kg	0.5	87	14	4.2	3.9	18
Zinc, Zn	mg/kg	2	50	37	42	70	42

PARAMETER	UOM	LOR	LC36 0.0-0.1 SOIL - 19/1/2024 SE259505.036	LC37 0.0-0.1 SOIL - 19/1/2024 SE259505.037	QC1 SOIL - 18/1/2024 SE259505.038	QC3 SOIL - 19/1/2024 SE259505.039
Arsenic, As	mg/kg	1	1	2	4	7
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	66	70	10	34
Copper, Cu	mg/kg	0.5	18	24	14	28
Lead, Pb	mg/kg	1	1	3	10	10
Nickel, Ni	mg/kg	0.5	28	70	7.9	7.0
Zinc, Zn	mg/kg	2	37	42	27	25

Mercury in Soil [AN312] Tested: 24/1/2024

PARAMETER	UOM	LOR	LC1 0.0-0.1 SOIL - 18/1/2024 SE259505.001	LC2 0.0-0.1 SOIL - 18/1/2024 SE259505.002	LC3 0.0-0.1 SOIL - 18/1/2024 SE259505.003	LC4 0.0-0.1 SOIL - 18/1/2024 SE259505.004	LC5 0.0-0.1 SOIL - 18/1/2024 SE259505.005
Mercury	mg/kg	0.05	<0.05	**0.06**	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	LC6 0.0-0.1 SOIL - 18/1/2024 SE259505.006	LC7 0.0-0.1 SOIL - 18/1/2024 SE259505.007	LC8 0.0-0.1 SOIL - 18/1/2024 SE259505.008	LC9 0.5-0.6 SOIL - 18/1/2024 SE259505.009	LC10 0.0-0.1 SOIL - 18/1/2024 SE259505.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	LC11 0.0-0.1 SOIL - 18/1/2024 SE259505.011	LC12 0.0-0.1 SOIL - 18/1/2024 SE259505.012	LC13 0.5-0.6 SOIL - 18/1/2024 SE259505.013	LC14 0.0-0.1 SOIL - 18/1/2024 SE259505.014	LC15 0.0-0.1 SOIL - 18/1/2024 SE259505.015
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	LC16 0.0-0.1 SOIL - 18/1/2024 SE259505.016	LC17 0.5-0.6 SOIL - 18/1/2024 SE259505.017	LC18 0.0-0.1 SOIL - 18/1/2024 SE259505.018	LC19 0.0-0.1 SOIL - 18/1/2024 SE259505.019	LC20 0.0-0.1 SOIL - 18/1/2024 SE259505.020
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	LC21 0.5-0.6 SOIL - 18/1/2024 SE259505.021	LC22 0.0-0.1 SOIL - 19/1/2024 SE259505.022	LC23 0.0-0.1 SOIL - 19/1/2024 SE259505.023	LC24 0.0-0.1 SOIL - 19/1/2024 SE259505.024	LC25 0.0-0.1 SOIL - 19/1/2024 SE259505.025
Mercury	mg/kg	0.05	<0.05	<0.05	**0.07**	<0.05	<0.05

PARAMETER	UOM	LOR	LC26 0.0-0.1 SOIL - 19/1/2024 SE259505.026	LC27 0.0-0.1 SOIL - 19/1/2024 SE259505.027	LC28 0.0-0.1 SOIL - 19/1/2024 SE259505.028	LC29 0.0-0.1 SOIL - 19/1/2024 SE259505.029	LC30 0.0-0.1 SOIL - 19/1/2024 SE259505.030
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	**0.06**	<0.05

PARAMETER	UOM	LOR	LC31 0.0-0.1 SOIL - 19/1/2024 SE259505.031	LC32 0.0-0.1 SOIL - 19/1/2024 SE259505.032	LC33 0.0-0.1 SOIL - 19/1/2024 SE259505.033	LC34 0.5-0.6 SOIL - 19/1/2024 SE259505.034	LC35 0.0-0.1 SOIL - 19/1/2024 SE259505.035
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Mercury in Soil [AN312] Tested: 24/1/2024 (continued)

PARAMETER	UOM	LOR	LC36 0.0-0.1 SOIL - 19/1/2024 SE259505.036	LC37 0.0-0.1 SOIL - 19/1/2024 SE259505.037	QC1 SOIL - 18/1/2024 SE259505.038	QC3 SOIL - 19/1/2024 SE259505.039
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05

Moisture Content [AN002] Tested: 24/1/2024

PARAMETER	UOM	LOR	LC1 0.0-0.1 SOIL - 18/1/2024 SE259505.001	LC2 0.0-0.1 SOIL - 18/1/2024 SE259505.002	LC3 0.0-0.1 SOIL - 18/1/2024 SE259505.003	LC4 0.0-0.1 SOIL - 18/1/2024 SE259505.004	LC5 0.0-0.1 SOIL - 18/1/2024 SE259505.005
% Moisture	%w/w	1	10.8	8.7	10.4	8.6	14.0

PARAMETER	UOM	LOR	LC6 0.0-0.1 SOIL - 18/1/2024 SE259505.006	LC7 0.0-0.1 SOIL - 18/1/2024 SE259505.007	LC8 0.0-0.1 SOIL - 18/1/2024 SE259505.008	LC9 0.5-0.6 SOIL - 18/1/2024 SE259505.009	LC10 0.0-0.1 SOIL - 18/1/2024 SE259505.010
% Moisture	%w/w	1	11.7	11.7	13.3	10.2	10.5

PARAMETER	UOM	LOR	LC11 0.0-0.1 SOIL - 18/1/2024 SE259505.011	LC12 0.0-0.1 SOIL - 18/1/2024 SE259505.012	LC13 0.5-0.6 SOIL - 18/1/2024 SE259505.013	LC14 0.0-0.1 SOIL - 18/1/2024 SE259505.014	LC15 0.0-0.1 SOIL - 18/1/2024 SE259505.015
% Moisture	%w/w	1	12.8	11.2	15.7	9.0	10.4

PARAMETER	UOM	LOR	LC16 0.0-0.1 SOIL - 18/1/2024 SE259505.016	LC17 0.5-0.6 SOIL - 18/1/2024 SE259505.017	LC18 0.0-0.1 SOIL - 18/1/2024 SE259505.018	LC19 0.0-0.1 SOIL - 18/1/2024 SE259505.019	LC20 0.0-0.1 SOIL - 18/1/2024 SE259505.020
% Moisture	%w/w	1	11.0	9.2	9.9	11.3	32.5

PARAMETER	UOM	LOR	LC21 0.5-0.6 SOIL - 18/1/2024 SE259505.021	LC22 0.0-0.1 SOIL - 19/1/2024 SE259505.022	LC23 0.0-0.1 SOIL - 19/1/2024 SE259505.023	LC24 0.0-0.1 SOIL - 19/1/2024 SE259505.024	LC25 0.0-0.1 SOIL - 19/1/2024 SE259505.025
% Moisture	%w/w	1	19.7	31.2	23.3	15.7	26.8

PARAMETER	UOM	LOR	LC26 0.0-0.1 SOIL - 19/1/2024 SE259505.026	LC27 0.0-0.1 SOIL - 19/1/2024 SE259505.027	LC28 0.0-0.1 SOIL - 19/1/2024 SE259505.028	LC29 0.0-0.1 SOIL - 19/1/2024 SE259505.029	LC30 0.0-0.1 SOIL - 19/1/2024 SE259505.030
% Moisture	%w/w	1	28.4	17.7	18.2	20.5	18.3

PARAMETER	UOM	LOR	LC31 0.0-0.1 SOIL - 19/1/2024 SE259505.031	LC32 0.0-0.1 SOIL - 19/1/2024 SE259505.032	LC33 0.0-0.1 SOIL - 19/1/2024 SE259505.033	LC34 0.5-0.6 SOIL - 19/1/2024 SE259505.034	LC35 0.0-0.1 SOIL - 19/1/2024 SE259505.035
% Moisture	%w/w	1	13.3	13.9	26.0	26.8	15.9

Moisture Content [AN002] Tested: 24/1/2024 (continued)

PARAMETER	UOM	LOR	LC36 0.0-0.1 SOIL - 19/1/2024 SE259505.036	LC37 0.0-0.1 SOIL - 19/1/2024 SE259505.037	QC1 SOIL - 18/1/2024 SE259505.038	QC3 SOIL - 19/1/2024 SE259505.039
% Moisture	%w/w	1	**15.9**	**20.6**	**21.8**	**25.9**

Fibre Identification in soil [AS4964/AN602] Tested: 30/1/2024

PARAMETER	UOM	LOR	LC1 0.0-0.1 SOIL - 18/1/2024 SE259505.001	LC2 0.0-0.1 SOIL - 18/1/2024 SE259505.002	LC3 0.0-0.1 SOIL - 18/1/2024 SE259505.003	LC4 0.0-0.1 SOIL - 18/1/2024 SE259505.004	LC5 0.0-0.1 SOIL - 18/1/2024 SE259505.005
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
Date Analysed*	No unit	-	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00

PARAMETER	UOM	LOR	LC6 0.0-0.1 SOIL - 18/1/2024 SE259505.006	LC7 0.0-0.1 SOIL - 18/1/2024 SE259505.007	LC8 0.0-0.1 SOIL - 18/1/2024 SE259505.008	LC14 0.0-0.1 SOIL - 18/1/2024 SE259505.014	LC15 0.0-0.1 SOIL - 18/1/2024 SE259505.015
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
Date Analysed*	No unit	-	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00

PARAMETER	UOM	LOR	LC16 0.0-0.1 SOIL - 18/1/2024 SE259505.016	LC17 0.5-0.6 SOIL - 18/1/2024 SE259505.017	LC18 0.0-0.1 SOIL - 18/1/2024 SE259505.018	LC19 0.0-0.1 SOIL - 18/1/2024 SE259505.019	LC20 0.0-0.1 SOIL - 18/1/2024 SE259505.020
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
Date Analysed*	No unit	-	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00

PARAMETER	UOM	LOR	LC21 0.5-0.6 SOIL - 18/1/2024 SE259505.021	LC22 0.0-0.1 SOIL - 19/1/2024 SE259505.022	LC23 0.0-0.1 SOIL - 19/1/2024 SE259505.023	LC24 0.0-0.1 SOIL - 19/1/2024 SE259505.024	LC25 0.0-0.1 SOIL - 19/1/2024 SE259505.025
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
Date Analysed*	No unit	-	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00

PARAMETER	UOM	LOR	LC26 0.0-0.1 SOIL - 19/1/2024 SE259505.026	LC27 0.0-0.1 SOIL - 19/1/2024 SE259505.027	LC28 0.0-0.1 SOIL - 19/1/2024 SE259505.028	LC29 0.0-0.1 SOIL - 19/1/2024 SE259505.029	LC30 0.0-0.1 SOIL - 19/1/2024 SE259505.030
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
Date Analysed*	No unit	-	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00

PARAMETER	UOM	LOR	LC31 0.0-0.1 SOIL - 19/1/2024 SE259505.031	LC32 0.0-0.1 SOIL - 19/1/2024 SE259505.032	LC33 0.0-0.1 SOIL - 19/1/2024 SE259505.033	LC34 0.5-0.6 SOIL - 19/1/2024 SE259505.034	LC35 0.0-0.1 SOIL - 19/1/2024 SE259505.035
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
Date Analysed*	No unit	-	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00	31/01/2024 00:00

PARAMETER	UOM	LOR	LC36 0.0-0.1 SOIL - 19/1/2024 SE259505.036	LC37 0.0-0.1 SOIL - 19/1/2024 SE259505.037
Asbestos Detected	No unit	-	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01
Date Analysed*	No unit	-	31/01/2024 00:00	31/01/2024 00:00

Fibre ID in bulk materials [AN602/AS4964] Tested: 31/1/2024

PARAMETER	UOM	LOR	ACM1 MATERIAL - 18/1/2024 SE259505.040	ACM2 MATERIAL - 19/1/2024 SE259505.041
Asbestos Detected	No unit	-	Yes	Yes
Date Analysed*	No unit	-	31/01/2024 00:00	31/01/2024 00:00

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).
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602/AS4964	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602/AS4964	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602/AS4964	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602/AS4964	The sample can be reported “no asbestos found at the reporting limit (RL) of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (a) no trace asbestos fibres have been detected (i.e. no ‘respirable’ fibres): (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

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

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

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

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

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

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

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

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

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

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STATEMENT OF QA/QC PERFORMANCE

SE259505 R0

CLIENT DETAILS

Contact	Leonardo Baeza
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Facsimile	(Not specified)
Email	leonardo.baeza@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	41

LABORATORY DETAILS

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Email	au.environmental.sydney@sgs.com
SGS Reference	**SE259505 R0**
Date Received	23 Jan 2024
Date Reported	01 Feb 2024

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	39 Soil, 2 Material	Type of documentation received	COC
Date documentation received	23/1/2024	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	19.6C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE259505 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

Fibre ID in bulk materials — Method: ME-(AU)-[ENV]AN602/AS4964

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ACM1	SE259505.040	LB302648	18 Jan 2024	23 Jan 2024	17 Jan 2025	31 Jan 2024	17 Jan 2025	31 Jan 2024
ACM2	SE259505.041	LB302648	19 Jan 2024	23 Jan 2024	18 Jan 2025	31 Jan 2024	18 Jan 2025	31 Jan 2024

Fibre Identification in soil — Method: ME-(AU)-[ENV]AS4964/AN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC1 0.0-0.1	SE259505.001	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC2 0.0-0.1	SE259505.002	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC3 0.0-0.1	SE259505.003	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC4 0.0-0.1	SE259505.004	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC5 0.0-0.1	SE259505.005	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC6 0.0-0.1	SE259505.006	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC7 0.0-0.1	SE259505.007	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC8 0.0-0.1	SE259505.008	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC14 0.0-0.1	SE259505.014	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC15 0.0-0.1	SE259505.015	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC16 0.0-0.1	SE259505.016	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC17 0.5-0.6	SE259505.017	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC18 0.0-0.1	SE259505.018	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC19 0.0-0.1	SE259505.019	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC20 0.0-0.1	SE259505.020	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC21 0.5-0.6	SE259505.021	LB302563	18 Jan 2024	23 Jan 2024	17 Jan 2025	30 Jan 2024	17 Jan 2025	31 Jan 2024
LC22 0.0-0.1	SE259505.022	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC23 0.0-0.1	SE259505.023	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC24 0.0-0.1	SE259505.024	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC25 0.0-0.1	SE259505.025	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC26 0.0-0.1	SE259505.026	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC27 0.0-0.1	SE259505.027	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC28 0.0-0.1	SE259505.028	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC29 0.0-0.1	SE259505.029	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC30 0.0-0.1	SE259505.030	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC31 0.0-0.1	SE259505.031	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC32 0.0-0.1	SE259505.032	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC33 0.0-0.1	SE259505.033	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC34 0.5-0.6	SE259505.034	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC35 0.0-0.1	SE259505.035	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC36 0.0-0.1	SE259505.036	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024
LC37 0.0-0.1	SE259505.037	LB302563	19 Jan 2024	23 Jan 2024	18 Jan 2025	30 Jan 2024	18 Jan 2025	31 Jan 2024

Mercury in Soil — Method: ME-(AU)-[ENV]AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC1 0.0-0.1	SE259505.001	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC2 0.0-0.1	SE259505.002	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC3 0.0-0.1	SE259505.003	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC4 0.0-0.1	SE259505.004	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC5 0.0-0.1	SE259505.005	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC6 0.0-0.1	SE259505.006	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC7 0.0-0.1	SE259505.007	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC8 0.0-0.1	SE259505.008	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC9 0.5-0.6	SE259505.009	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC10 0.0-0.1	SE259505.010	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC11 0.0-0.1	SE259505.011	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC12 0.0-0.1	SE259505.012	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC13 0.5-0.6	SE259505.013	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC14 0.0-0.1	SE259505.014	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC15 0.0-0.1	SE259505.015	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC16 0.0-0.1	SE259505.016	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC17 0.5-0.6	SE259505.017	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC18 0.0-0.1	SE259505.018	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC19 0.0-0.1	SE259505.019	LB302129	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC20 0.0-0.1	SE259505.020	LB302130	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
LC21 0.5-0.6	SE259505.021	LB302130	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024

HOLDING TIME SUMMARY

SE259505 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

Mercury in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC22 0.0-0.1	SE259505.022	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC23 0.0-0.1	SE259505.023	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC24 0.0-0.1	SE259505.024	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC25 0.0-0.1	SE259505.025	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC26 0.0-0.1	SE259505.026	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC27 0.0-0.1	SE259505.027	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC28 0.0-0.1	SE259505.028	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC29 0.0-0.1	SE259505.029	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC30 0.0-0.1	SE259505.030	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC31 0.0-0.1	SE259505.031	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC32 0.0-0.1	SE259505.032	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC33 0.0-0.1	SE259505.033	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC34 0.5-0.6	SE259505.034	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC35 0.0-0.1	SE259505.035	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC36 0.0-0.1	SE259505.036	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
LC37 0.0-0.1	SE259505.037	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024
QC1	SE259505.038	LB302130	18 Jan 2024	23 Jan 2024	15 Feb 2024	24 Jan 2024	15 Feb 2024	30 Jan 2024
QC3	SE259505.039	LB302130	19 Jan 2024	23 Jan 2024	16 Feb 2024	24 Jan 2024	16 Feb 2024	30 Jan 2024

Moisture Content

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC1 0.0-0.1	SE259505.001	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC2 0.0-0.1	SE259505.002	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC3 0.0-0.1	SE259505.003	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC4 0.0-0.1	SE259505.004	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC5 0.0-0.1	SE259505.005	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC6 0.0-0.1	SE259505.006	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC7 0.0-0.1	SE259505.007	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC8 0.0-0.1	SE259505.008	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC9 0.5-0.6	SE259505.009	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC10 0.0-0.1	SE259505.010	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC11 0.0-0.1	SE259505.011	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC12 0.0-0.1	SE259505.012	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC13 0.5-0.6	SE259505.013	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC14 0.0-0.1	SE259505.014	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC15 0.0-0.1	SE259505.015	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC16 0.0-0.1	SE259505.016	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC17 0.5-0.6	SE259505.017	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC18 0.0-0.1	SE259505.018	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC19 0.0-0.1	SE259505.019	LB302134	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	25 Jan 2024
LC20 0.0-0.1	SE259505.020	LB302135	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC21 0.5-0.6	SE259505.021	LB302135	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC22 0.0-0.1	SE259505.022	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC23 0.0-0.1	SE259505.023	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC24 0.0-0.1	SE259505.024	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC25 0.0-0.1	SE259505.025	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC26 0.0-0.1	SE259505.026	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC27 0.0-0.1	SE259505.027	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC28 0.0-0.1	SE259505.028	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC29 0.0-0.1	SE259505.029	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC30 0.0-0.1	SE259505.030	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC31 0.0-0.1	SE259505.031	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC32 0.0-0.1	SE259505.032	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC33 0.0-0.1	SE259505.033	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC34 0.5-0.6	SE259505.034	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC35 0.0-0.1	SE259505.035	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC36 0.0-0.1	SE259505.036	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
LC37 0.0-0.1	SE259505.037	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
QC1	SE259505.038	LB302135	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024
QC3	SE259505.039	LB302135	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	29 Jan 2024	29 Jan 2024

HOLDING TIME SUMMARY

SE259505 R0

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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.

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OC Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC1 0.0-0.1	SE259505.001	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC2 0.0-0.1	SE259505.002	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC3 0.0-0.1	SE259505.003	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC4 0.0-0.1	SE259505.004	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC5 0.0-0.1	SE259505.005	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC6 0.0-0.1	SE259505.006	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC7 0.0-0.1	SE259505.007	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC8 0.0-0.1	SE259505.008	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC9 0.5-0.6	SE259505.009	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC10 0.0-0.1	SE259505.010	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC11 0.0-0.1	SE259505.011	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC12 0.0-0.1	SE259505.012	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC13 0.5-0.6	SE259505.013	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC14 0.0-0.1	SE259505.014	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC15 0.0-0.1	SE259505.015	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC16 0.0-0.1	SE259505.016	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC17 0.5-0.6	SE259505.017	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC18 0.0-0.1	SE259505.018	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC19 0.0-0.1	SE259505.019	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC20 0.0-0.1	SE259505.020	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC21 0.5-0.6	SE259505.021	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC22 0.0-0.1	SE259505.022	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC23 0.0-0.1	SE259505.023	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC24 0.0-0.1	SE259505.024	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC25 0.0-0.1	SE259505.025	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC26 0.0-0.1	SE259505.026	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC27 0.0-0.1	SE259505.027	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC28 0.0-0.1	SE259505.028	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC29 0.0-0.1	SE259505.029	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC30 0.0-0.1	SE259505.030	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC31 0.0-0.1	SE259505.031	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC32 0.0-0.1	SE259505.032	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC33 0.0-0.1	SE259505.033	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC34 0.5-0.6	SE259505.034	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC35 0.0-0.1	SE259505.035	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC36 0.0-0.1	SE259505.036	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC37 0.0-0.1	SE259505.037	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
QC1	SE259505.038	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
QC3	SE259505.039	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024

OP Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC1 0.0-0.1	SE259505.001	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC2 0.0-0.1	SE259505.002	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC3 0.0-0.1	SE259505.003	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC4 0.0-0.1	SE259505.004	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC5 0.0-0.1	SE259505.005	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC6 0.0-0.1	SE259505.006	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC7 0.0-0.1	SE259505.007	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC8 0.0-0.1	SE259505.008	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC9 0.5-0.6	SE259505.009	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC10 0.0-0.1	SE259505.010	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC11 0.0-0.1	SE259505.011	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC12 0.0-0.1	SE259505.012	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC13 0.5-0.6	SE259505.013	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC14 0.0-0.1	SE259505.014	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC15 0.0-0.1	SE259505.015	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC16 0.0-0.1	SE259505.016	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC17 0.5-0.6	SE259505.017	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC18 0.0-0.1	SE259505.018	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024

HOLDING TIME SUMMARY

SE259505 R0

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OP Pesticides in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC19 0.0-0.1	SE259505.019	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC20 0.0-0.1	SE259505.020	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC21 0.5-0.6	SE259505.021	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC22 0.0-0.1	SE259505.022	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC23 0.0-0.1	SE259505.023	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC24 0.0-0.1	SE259505.024	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC25 0.0-0.1	SE259505.025	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC26 0.0-0.1	SE259505.026	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC27 0.0-0.1	SE259505.027	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC28 0.0-0.1	SE259505.028	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC29 0.0-0.1	SE259505.029	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC30 0.0-0.1	SE259505.030	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC31 0.0-0.1	SE259505.031	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC32 0.0-0.1	SE259505.032	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC33 0.0-0.1	SE259505.033	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC34 0.5-0.6	SE259505.034	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC35 0.0-0.1	SE259505.035	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC36 0.0-0.1	SE259505.036	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC37 0.0-0.1	SE259505.037	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
QC1	SE259505.038	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
QC3	SE259505.039	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024

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
LC1 0.0-0.1	SE259505.001	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC2 0.0-0.1	SE259505.002	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC3 0.0-0.1	SE259505.003	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC4 0.0-0.1	SE259505.004	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC5 0.0-0.1	SE259505.005	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC6 0.0-0.1	SE259505.006	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC7 0.0-0.1	SE259505.007	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC8 0.0-0.1	SE259505.008	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC9 0.5-0.6	SE259505.009	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC10 0.0-0.1	SE259505.010	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC11 0.0-0.1	SE259505.011	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC12 0.0-0.1	SE259505.012	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC13 0.5-0.6	SE259505.013	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC14 0.0-0.1	SE259505.014	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC15 0.0-0.1	SE259505.015	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC16 0.0-0.1	SE259505.016	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC17 0.5-0.6	SE259505.017	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC18 0.0-0.1	SE259505.018	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC19 0.0-0.1	SE259505.019	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC20 0.0-0.1	SE259505.020	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC21 0.5-0.6	SE259505.021	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC22 0.0-0.1	SE259505.022	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC23 0.0-0.1	SE259505.023	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC24 0.0-0.1	SE259505.024	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC25 0.0-0.1	SE259505.025	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC26 0.0-0.1	SE259505.026	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC27 0.0-0.1	SE259505.027	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC28 0.0-0.1	SE259505.028	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC29 0.0-0.1	SE259505.029	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC30 0.0-0.1	SE259505.030	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC31 0.0-0.1	SE259505.031	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC32 0.0-0.1	SE259505.032	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC33 0.0-0.1	SE259505.033	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC34 0.5-0.6	SE259505.034	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC35 0.0-0.1	SE259505.035	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC36 0.0-0.1	SE259505.036	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024

HOLDING TIME SUMMARY

SE259505 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

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
LC37 0.0-0.1	SE259505.037	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
QC1	SE259505.038	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
QC3	SE259505.039	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024

PCBs in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC1 0.0-0.1	SE259505.001	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC2 0.0-0.1	SE259505.002	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC3 0.0-0.1	SE259505.003	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC4 0.0-0.1	SE259505.004	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC5 0.0-0.1	SE259505.005	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC6 0.0-0.1	SE259505.006	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC7 0.0-0.1	SE259505.007	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC8 0.0-0.1	SE259505.008	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC9 0.5-0.6	SE259505.009	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC10 0.0-0.1	SE259505.010	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC11 0.0-0.1	SE259505.011	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC12 0.0-0.1	SE259505.012	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC13 0.5-0.6	SE259505.013	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC14 0.0-0.1	SE259505.014	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC15 0.0-0.1	SE259505.015	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC16 0.0-0.1	SE259505.016	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC17 0.5-0.6	SE259505.017	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC18 0.0-0.1	SE259505.018	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC19 0.0-0.1	SE259505.019	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
LC20 0.0-0.1	SE259505.020	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC21 0.5-0.6	SE259505.021	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC22 0.0-0.1	SE259505.022	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC23 0.0-0.1	SE259505.023	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC24 0.0-0.1	SE259505.024	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC25 0.0-0.1	SE259505.025	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC26 0.0-0.1	SE259505.026	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC27 0.0-0.1	SE259505.027	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC28 0.0-0.1	SE259505.028	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC29 0.0-0.1	SE259505.029	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC30 0.0-0.1	SE259505.030	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC31 0.0-0.1	SE259505.031	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC32 0.0-0.1	SE259505.032	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC33 0.0-0.1	SE259505.033	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC34 0.5-0.6	SE259505.034	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC35 0.0-0.1	SE259505.035	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC36 0.0-0.1	SE259505.036	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC37 0.0-0.1	SE259505.037	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
QC1	SE259505.038	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024
QC3	SE259505.039	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	30 Jan 2024

Speciated Phenols in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC1 0.0-0.1	SE259505.001	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC2 0.0-0.1	SE259505.002	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC3 0.0-0.1	SE259505.003	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC4 0.0-0.1	SE259505.004	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC5 0.0-0.1	SE259505.005	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC6 0.0-0.1	SE259505.006	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC7 0.0-0.1	SE259505.007	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC8 0.0-0.1	SE259505.008	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC14 0.0-0.1	SE259505.014	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC15 0.0-0.1	SE259505.015	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC16 0.0-0.1	SE259505.016	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC17 0.5-0.6	SE259505.017	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC18 0.0-0.1	SE259505.018	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024

HOLDING TIME SUMMARY

SE259505 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

Speciated Phenols in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC19 0.0-0.1	SE259505.019	LB302056	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC20 0.0-0.1	SE259505.020	LB302057	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC21 0.5-0.6	SE259505.021	LB302057	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC22 0.0-0.1	SE259505.022	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC23 0.0-0.1	SE259505.023	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC24 0.0-0.1	SE259505.024	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC25 0.0-0.1	SE259505.025	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC26 0.0-0.1	SE259505.026	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC27 0.0-0.1	SE259505.027	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC28 0.0-0.1	SE259505.028	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC29 0.0-0.1	SE259505.029	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC30 0.0-0.1	SE259505.030	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC31 0.0-0.1	SE259505.031	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC32 0.0-0.1	SE259505.032	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC33 0.0-0.1	SE259505.033	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC34 0.5-0.6	SE259505.034	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC35 0.0-0.1	SE259505.035	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC36 0.0-0.1	SE259505.036	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC37 0.0-0.1	SE259505.037	LB302057	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024

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
LC1 0.0-0.1	SE259505.001	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC2 0.0-0.1	SE259505.002	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC3 0.0-0.1	SE259505.003	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC4 0.0-0.1	SE259505.004	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC5 0.0-0.1	SE259505.005	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC6 0.0-0.1	SE259505.006	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC7 0.0-0.1	SE259505.007	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC8 0.0-0.1	SE259505.008	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC9 0.5-0.6	SE259505.009	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC10 0.0-0.1	SE259505.010	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC11 0.0-0.1	SE259505.011	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC12 0.0-0.1	SE259505.012	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC13 0.5-0.6	SE259505.013	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC14 0.0-0.1	SE259505.014	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC15 0.0-0.1	SE259505.015	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC16 0.0-0.1	SE259505.016	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC17 0.5-0.6	SE259505.017	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC18 0.0-0.1	SE259505.018	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC19 0.0-0.1	SE259505.019	LB302125	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC20 0.0-0.1	SE259505.020	LB302126	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC21 0.5-0.6	SE259505.021	LB302126	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024
LC22 0.0-0.1	SE259505.022	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC23 0.0-0.1	SE259505.023	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC24 0.0-0.1	SE259505.024	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC25 0.0-0.1	SE259505.025	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC26 0.0-0.1	SE259505.026	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC27 0.0-0.1	SE259505.027	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC28 0.0-0.1	SE259505.028	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC29 0.0-0.1	SE259505.029	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC30 0.0-0.1	SE259505.030	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC31 0.0-0.1	SE259505.031	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC32 0.0-0.1	SE259505.032	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC33 0.0-0.1	SE259505.033	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC34 0.5-0.6	SE259505.034	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC35 0.0-0.1	SE259505.035	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC36 0.0-0.1	SE259505.036	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
LC37 0.0-0.1	SE259505.037	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024
QC1	SE259505.038	LB302126	18 Jan 2024	23 Jan 2024	16 Jul 2024	24 Jan 2024	16 Jul 2024	29 Jan 2024

HOLDING TIME SUMMARY

SE259505 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Total 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
QC3	SE259505.039	LB302126	19 Jan 2024	23 Jan 2024	17 Jul 2024	24 Jan 2024	17 Jul 2024	29 Jan 2024

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
LC1 0.0-0.1	SE259505.001	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC2 0.0-0.1	SE259505.002	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC3 0.0-0.1	SE259505.003	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC4 0.0-0.1	SE259505.004	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC5 0.0-0.1	SE259505.005	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC6 0.0-0.1	SE259505.006	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC7 0.0-0.1	SE259505.007	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC8 0.0-0.1	SE259505.008	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC9 0.5-0.6	SE259505.009	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC10 0.0-0.1	SE259505.010	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC11 0.0-0.1	SE259505.011	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC12 0.0-0.1	SE259505.012	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC13 0.5-0.6	SE259505.013	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC14 0.0-0.1	SE259505.014	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC15 0.0-0.1	SE259505.015	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC16 0.0-0.1	SE259505.016	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC17 0.5-0.6	SE259505.017	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC18 0.0-0.1	SE259505.018	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC19 0.0-0.1	SE259505.019	LB302058	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC20 0.0-0.1	SE259505.020	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC21 0.5-0.6	SE259505.021	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC22 0.0-0.1	SE259505.022	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC23 0.0-0.1	SE259505.023	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC24 0.0-0.1	SE259505.024	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC25 0.0-0.1	SE259505.025	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC26 0.0-0.1	SE259505.026	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC27 0.0-0.1	SE259505.027	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC28 0.0-0.1	SE259505.028	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC29 0.0-0.1	SE259505.029	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC30 0.0-0.1	SE259505.030	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC31 0.0-0.1	SE259505.031	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC32 0.0-0.1	SE259505.032	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC33 0.0-0.1	SE259505.033	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC34 0.5-0.6	SE259505.034	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC35 0.0-0.1	SE259505.035	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC36 0.0-0.1	SE259505.036	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
LC37 0.0-0.1	SE259505.037	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
QC1	SE259505.038	LB302060	18 Jan 2024	23 Jan 2024	01 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024
QC3	SE259505.039	LB302060	19 Jan 2024	23 Jan 2024	02 Feb 2024	23 Jan 2024	03 Mar 2024	29 Jan 2024

VOC's in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC1 0.0-0.1	SE259505.001	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC2 0.0-0.1	SE259505.002	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC3 0.0-0.1	SE259505.003	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC4 0.0-0.1	SE259505.004	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC5 0.0-0.1	SE259505.005	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC6 0.0-0.1	SE259505.006	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC7 0.0-0.1	SE259505.007	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC8 0.0-0.1	SE259505.008	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC9 0.5-0.6	SE259505.009	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC10 0.0-0.1	SE259505.010	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC11 0.0-0.1	SE259505.011	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC12 0.0-0.1	SE259505.012	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC13 0.5-0.6	SE259505.013	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC14 0.0-0.1	SE259505.014	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC15 0.0-0.1	SE259505.015	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024

HOLDING TIME SUMMARY

SE259505 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

VOC's in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC16 0.0-0.1	SE259505.016	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC17 0.5-0.6	SE259505.017	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC18 0.0-0.1	SE259505.018	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC19 0.0-0.1	SE259505.019	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC20 0.0-0.1	SE259505.020	LB302121	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC21 0.5-0.6	SE259505.021	LB302121	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC22 0.0-0.1	SE259505.022	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC23 0.0-0.1	SE259505.023	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC24 0.0-0.1	SE259505.024	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC25 0.0-0.1	SE259505.025	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC26 0.0-0.1	SE259505.026	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC27 0.0-0.1	SE259505.027	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC28 0.0-0.1	SE259505.028	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC29 0.0-0.1	SE259505.029	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC30 0.0-0.1	SE259505.030	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC31 0.0-0.1	SE259505.031	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC32 0.0-0.1	SE259505.032	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC33 0.0-0.1	SE259505.033	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC34 0.5-0.6	SE259505.034	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC35 0.0-0.1	SE259505.035	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC36 0.0-0.1	SE259505.036	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC37 0.0-0.1	SE259505.037	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
QC1	SE259505.038	LB302121	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
QC3	SE259505.039	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024

Volatile Petroleum Hydrocarbons in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC1 0.0-0.1	SE259505.001	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC2 0.0-0.1	SE259505.002	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC3 0.0-0.1	SE259505.003	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC4 0.0-0.1	SE259505.004	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC5 0.0-0.1	SE259505.005	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC6 0.0-0.1	SE259505.006	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC7 0.0-0.1	SE259505.007	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC8 0.0-0.1	SE259505.008	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC9 0.5-0.6	SE259505.009	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC10 0.0-0.1	SE259505.010	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC11 0.0-0.1	SE259505.011	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC12 0.0-0.1	SE259505.012	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC13 0.5-0.6	SE259505.013	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC14 0.0-0.1	SE259505.014	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC15 0.0-0.1	SE259505.015	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC16 0.0-0.1	SE259505.016	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC17 0.5-0.6	SE259505.017	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC18 0.0-0.1	SE259505.018	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC19 0.0-0.1	SE259505.019	LB302120	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC20 0.0-0.1	SE259505.020	LB302121	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC21 0.5-0.6	SE259505.021	LB302121	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
LC22 0.0-0.1	SE259505.022	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC23 0.0-0.1	SE259505.023	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC24 0.0-0.1	SE259505.024	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC25 0.0-0.1	SE259505.025	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC26 0.0-0.1	SE259505.026	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC27 0.0-0.1	SE259505.027	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC28 0.0-0.1	SE259505.028	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC29 0.0-0.1	SE259505.029	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC30 0.0-0.1	SE259505.030	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC31 0.0-0.1	SE259505.031	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC32 0.0-0.1	SE259505.032	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC33 0.0-0.1	SE259505.033	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024

HOLDING TIME SUMMARY

SE259505 R0

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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 Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
LC34 0.5-0.6	SE259505.034	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC35 0.0-0.1	SE259505.035	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC36 0.0-0.1	SE259505.036	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
LC37 0.0-0.1	SE259505.037	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024
QC1	SE259505.038	LB302121	18 Jan 2024	23 Jan 2024	01 Feb 2024	24 Jan 2024	01 Feb 2024	01 Feb 2024
QC3	SE259505.039	LB302121	19 Jan 2024	23 Jan 2024	02 Feb 2024	24 Jan 2024	02 Feb 2024	01 Feb 2024

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	LC1 0.0-0.1	SE259505.001	%	60 - 130%	100
	LC2 0.0-0.1	SE259505.002	%	60 - 130%	101
	LC3 0.0-0.1	SE259505.003	%	60 - 130%	98
	LC4 0.0-0.1	SE259505.004	%	60 - 130%	106
	LC5 0.0-0.1	SE259505.005	%	60 - 130%	109
	LC6 0.0-0.1	SE259505.006	%	60 - 130%	108
	LC7 0.0-0.1	SE259505.007	%	60 - 130%	114
	LC8 0.0-0.1	SE259505.008	%	60 - 130%	112
	LC14 0.0-0.1	SE259505.014	%	60 - 130%	103
	LC15 0.0-0.1	SE259505.015	%	60 - 130%	113
	LC16 0.0-0.1	SE259505.016	%	60 - 130%	116
	LC17 0.5-0.6	SE259505.017	%	60 - 130%	104
	LC18 0.0-0.1	SE259505.018	%	60 - 130%	107
	LC19 0.0-0.1	SE259505.019	%	60 - 130%	106
	LC20 0.0-0.1	SE259505.020	%	60 - 130%	106
	LC21 0.5-0.6	SE259505.021	%	60 - 130%	102
	LC22 0.0-0.1	SE259505.022	%	60 - 130%	108
	LC23 0.0-0.1	SE259505.023	%	60 - 130%	105
	LC24 0.0-0.1	SE259505.024	%	60 - 130%	111
	LC25 0.0-0.1	SE259505.025	%	60 - 130%	106
	LC26 0.0-0.1	SE259505.026	%	60 - 130%	108
	LC27 0.0-0.1	SE259505.027	%	60 - 130%	106
	LC28 0.0-0.1	SE259505.028	%	60 - 130%	101
	LC29 0.0-0.1	SE259505.029	%	60 - 130%	103
	LC30 0.0-0.1	SE259505.030	%	60 - 130%	111
	LC31 0.0-0.1	SE259505.031	%	60 - 130%	98
	LC32 0.0-0.1	SE259505.032	%	60 - 130%	95
	LC33 0.0-0.1	SE259505.033	%	60 - 130%	101
	LC34 0.5-0.6	SE259505.034	%	60 - 130%	109
	LC35 0.0-0.1	SE259505.035	%	60 - 130%	98
	LC36 0.0-0.1	SE259505.036	%	60 - 130%	95
	LC37 0.0-0.1	SE259505.037	%	60 - 130%	97

OP Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	LC1 0.0-0.1	SE259505.001	%	60 - 130%	100
	LC2 0.0-0.1	SE259505.002	%	60 - 130%	103
	LC3 0.0-0.1	SE259505.003	%	60 - 130%	95
	LC4 0.0-0.1	SE259505.004	%	60 - 130%	96
	LC5 0.0-0.1	SE259505.005	%	60 - 130%	98
	LC6 0.0-0.1	SE259505.006	%	60 - 130%	100
	LC7 0.0-0.1	SE259505.007	%	60 - 130%	97
	LC8 0.0-0.1	SE259505.008	%	60 - 130%	98
	LC14 0.0-0.1	SE259505.014	%	60 - 130%	87
	LC15 0.0-0.1	SE259505.015	%	60 - 130%	93
	LC16 0.0-0.1	SE259505.016	%	60 - 130%	95
	LC17 0.5-0.6	SE259505.017	%	60 - 130%	91
	LC18 0.0-0.1	SE259505.018	%	60 - 130%	97
	LC19 0.0-0.1	SE259505.019	%	60 - 130%	98
	LC20 0.0-0.1	SE259505.020	%	60 - 130%	92
	LC21 0.5-0.6	SE259505.021	%	60 - 130%	84
	LC22 0.0-0.1	SE259505.022	%	60 - 130%	92
	LC23 0.0-0.1	SE259505.023	%	60 - 130%	92
	LC24 0.0-0.1	SE259505.024	%	60 - 130%	93
	LC25 0.0-0.1	SE259505.025	%	60 - 130%	93
	LC26 0.0-0.1	SE259505.026	%	60 - 130%	99
	LC27 0.0-0.1	SE259505.027	%	60 - 130%	97
	LC28 0.0-0.1	SE259505.028	%	60 - 130%	92
	LC29 0.0-0.1	SE259505.029	%	60 - 130%	93
	LC30 0.0-0.1	SE259505.030	%	60 - 130%	96
	LC31 0.0-0.1	SE259505.031	%	60 - 130%	97

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	LC32 0.0-0.1	SE259505.032	%	60 - 130%	92
	LC33 0.0-0.1	SE259505.033	%	60 - 130%	96
	LC34 0.5-0.6	SE259505.034	%	60 - 130%	99
	LC35 0.0-0.1	SE259505.035	%	60 - 130%	93
	LC36 0.0-0.1	SE259505.036	%	60 - 130%	91
	LC37 0.0-0.1	SE259505.037	%	60 - 130%	91
d14-p-terphenyl (Surrogate)	LC1 0.0-0.1	SE259505.001	%	60 - 130%	106
	LC2 0.0-0.1	SE259505.002	%	60 - 130%	106
	LC3 0.0-0.1	SE259505.003	%	60 - 130%	98
	LC4 0.0-0.1	SE259505.004	%	60 - 130%	106
	LC5 0.0-0.1	SE259505.005	%	60 - 130%	105
	LC6 0.0-0.1	SE259505.006	%	60 - 130%	109
	LC7 0.0-0.1	SE259505.007	%	60 - 130%	103
	LC8 0.0-0.1	SE259505.008	%	60 - 130%	104
	LC14 0.0-0.1	SE259505.014	%	60 - 130%	96
	LC15 0.0-0.1	SE259505.015	%	60 - 130%	101
	LC16 0.0-0.1	SE259505.016	%	60 - 130%	108
	LC17 0.5-0.6	SE259505.017	%	60 - 130%	104
	LC18 0.0-0.1	SE259505.018	%	60 - 130%	103
	LC19 0.0-0.1	SE259505.019	%	60 - 130%	105
	LC20 0.0-0.1	SE259505.020	%	60 - 130%	106
	LC21 0.5-0.6	SE259505.021	%	60 - 130%	107
	LC22 0.0-0.1	SE259505.022	%	60 - 130%	107
	LC23 0.0-0.1	SE259505.023	%	60 - 130%	104
	LC24 0.0-0.1	SE259505.024	%	60 - 130%	105
	LC25 0.0-0.1	SE259505.025	%	60 - 130%	107
	LC26 0.0-0.1	SE259505.026	%	60 - 130%	107
	LC27 0.0-0.1	SE259505.027	%	60 - 130%	110
	LC28 0.0-0.1	SE259505.028	%	60 - 130%	105
	LC29 0.0-0.1	SE259505.029	%	60 - 130%	105
	LC30 0.0-0.1	SE259505.030	%	60 - 130%	106
	LC31 0.0-0.1	SE259505.031	%	60 - 130%	111
	LC32 0.0-0.1	SE259505.032	%	60 - 130%	103
	LC33 0.0-0.1	SE259505.033	%	60 - 130%	107
	LC34 0.5-0.6	SE259505.034	%	60 - 130%	108
	LC35 0.0-0.1	SE259505.035	%	60 - 130%	105
	LC36 0.0-0.1	SE259505.036	%	60 - 130%	102
	LC37 0.0-0.1	SE259505.037	%	60 - 130%	104

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	LC1 0.0-0.1	SE259505.001	%	70 - 130%	100
	LC2 0.0-0.1	SE259505.002	%	70 - 130%	103
	LC3 0.0-0.1	SE259505.003	%	70 - 130%	95
	LC4 0.0-0.1	SE259505.004	%	70 - 130%	96
	LC5 0.0-0.1	SE259505.005	%	70 - 130%	98
	LC6 0.0-0.1	SE259505.006	%	70 - 130%	100
	LC7 0.0-0.1	SE259505.007	%	70 - 130%	97
	LC8 0.0-0.1	SE259505.008	%	70 - 130%	98
	LC9 0.5-0.6	SE259505.009	%	70 - 130%	95
	LC10 0.0-0.1	SE259505.010	%	70 - 130%	96
	LC11 0.0-0.1	SE259505.011	%	70 - 130%	97
	LC12 0.0-0.1	SE259505.012	%	70 - 130%	94
	LC13 0.5-0.6	SE259505.013	%	70 - 130%	100
	LC14 0.0-0.1	SE259505.014	%	70 - 130%	87
	LC15 0.0-0.1	SE259505.015	%	70 - 130%	93
	LC16 0.0-0.1	SE259505.016	%	70 - 130%	95
	LC17 0.5-0.6	SE259505.017	%	70 - 130%	91
	LC18 0.0-0.1	SE259505.018	%	70 - 130%	97
	LC19 0.0-0.1	SE259505.019	%	70 - 130%	98
	LC20 0.0-0.1	SE259505.020	%	70 - 130%	92

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	LC21 0.5-0.6	SE259505.021	%	70 - 130%	84
	LC22 0.0-0.1	SE259505.022	%	70 - 130%	92
	LC23 0.0-0.1	SE259505.023	%	70 - 130%	92
	LC24 0.0-0.1	SE259505.024	%	70 - 130%	93
	LC25 0.0-0.1	SE259505.025	%	70 - 130%	93
	LC26 0.0-0.1	SE259505.026	%	70 - 130%	99
	LC27 0.0-0.1	SE259505.027	%	70 - 130%	97
	LC28 0.0-0.1	SE259505.028	%	70 - 130%	92
	LC29 0.0-0.1	SE259505.029	%	70 - 130%	93
	LC30 0.0-0.1	SE259505.030	%	70 - 130%	96
	LC31 0.0-0.1	SE259505.031	%	70 - 130%	97
	LC32 0.0-0.1	SE259505.032	%	70 - 130%	92
	LC33 0.0-0.1	SE259505.033	%	70 - 130%	96
	LC34 0.5-0.6	SE259505.034	%	70 - 130%	99
	LC35 0.0-0.1	SE259505.035	%	70 - 130%	93
	LC36 0.0-0.1	SE259505.036	%	70 - 130%	91
	LC37 0.0-0.1	SE259505.037	%	70 - 130%	91
	QC1	SE259505.038	%	70 - 130%	91
	QC3	SE259505.039	%	70 - 130%	95
d14-p-terphenyl (Surrogate)	LC1 0.0-0.1	SE259505.001	%	70 - 130%	106
	LC2 0.0-0.1	SE259505.002	%	70 - 130%	106
	LC3 0.0-0.1	SE259505.003	%	70 - 130%	98
	LC4 0.0-0.1	SE259505.004	%	70 - 130%	106
	LC5 0.0-0.1	SE259505.005	%	70 - 130%	105
	LC6 0.0-0.1	SE259505.006	%	70 - 130%	109
	LC7 0.0-0.1	SE259505.007	%	70 - 130%	103
	LC8 0.0-0.1	SE259505.008	%	70 - 130%	104
	LC9 0.5-0.6	SE259505.009	%	70 - 130%	102
	LC10 0.0-0.1	SE259505.010	%	70 - 130%	104
	LC11 0.0-0.1	SE259505.011	%	70 - 130%	106
	LC12 0.0-0.1	SE259505.012	%	70 - 130%	105
	LC13 0.5-0.6	SE259505.013	%	70 - 130%	106
	LC14 0.0-0.1	SE259505.014	%	70 - 130%	96
	LC15 0.0-0.1	SE259505.015	%	70 - 130%	101
	LC16 0.0-0.1	SE259505.016	%	70 - 130%	108
	LC17 0.5-0.6	SE259505.017	%	70 - 130%	104
	LC18 0.0-0.1	SE259505.018	%	70 - 130%	103
	LC19 0.0-0.1	SE259505.019	%	70 - 130%	105
	LC20 0.0-0.1	SE259505.020	%	70 - 130%	106
	LC21 0.5-0.6	SE259505.021	%	70 - 130%	107
	LC22 0.0-0.1	SE259505.022	%	70 - 130%	107
	LC23 0.0-0.1	SE259505.023	%	70 - 130%	104
	LC24 0.0-0.1	SE259505.024	%	70 - 130%	105
	LC25 0.0-0.1	SE259505.025	%	70 - 130%	107
	LC26 0.0-0.1	SE259505.026	%	70 - 130%	107
	LC27 0.0-0.1	SE259505.027	%	70 - 130%	110
	LC28 0.0-0.1	SE259505.028	%	70 - 130%	105
	LC29 0.0-0.1	SE259505.029	%	70 - 130%	105
	LC30 0.0-0.1	SE259505.030	%	70 - 130%	106
	LC31 0.0-0.1	SE259505.031	%	70 - 130%	111
	LC32 0.0-0.1	SE259505.032	%	70 - 130%	103
	LC33 0.0-0.1	SE259505.033	%	70 - 130%	107
	LC34 0.5-0.6	SE259505.034	%	70 - 130%	108
	LC35 0.0-0.1	SE259505.035	%	70 - 130%	105
	LC36 0.0-0.1	SE259505.036	%	70 - 130%	102
	LC37 0.0-0.1	SE259505.037	%	70 - 130%	104
	QC1	SE259505.038	%	70 - 130%	101
	QC3	SE259505.039	%	70 - 130%	103
d5-nitrobenzene (Surrogate)	LC1 0.0-0.1	SE259505.001	%	70 - 130%	100
	LC2 0.0-0.1	SE259505.002	%	70 - 130%	101
	LC3 0.0-0.1	SE259505.003	%	70 - 130%	94

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-nitrobenzene (Surrogate)	LC4 0.0-0.1	SE259505.004	%	70 - 130%	100
	LC5 0.0-0.1	SE259505.005	%	70 - 130%	99
	LC6 0.0-0.1	SE259505.006	%	70 - 130%	100
	LC7 0.0-0.1	SE259505.007	%	70 - 130%	100
	LC8 0.0-0.1	SE259505.008	%	70 - 130%	100
	LC9 0.5-0.6	SE259505.009	%	70 - 130%	97
	LC10 0.0-0.1	SE259505.010	%	70 - 130%	97
	LC11 0.0-0.1	SE259505.011	%	70 - 130%	99
	LC12 0.0-0.1	SE259505.012	%	70 - 130%	98
	LC13 0.5-0.6	SE259505.013	%	70 - 130%	103
	LC14 0.0-0.1	SE259505.014	%	70 - 130%	91
	LC15 0.0-0.1	SE259505.015	%	70 - 130%	99
	LC16 0.0-0.1	SE259505.016	%	70 - 130%	102
	LC17 0.5-0.6	SE259505.017	%	70 - 130%	96
	LC18 0.0-0.1	SE259505.018	%	70 - 130%	99
	LC19 0.0-0.1	SE259505.019	%	70 - 130%	96
	LC20 0.0-0.1	SE259505.020	%	70 - 130%	92
	LC21 0.5-0.6	SE259505.021	%	70 - 130%	93
	LC22 0.0-0.1	SE259505.022	%	70 - 130%	97
	LC23 0.0-0.1	SE259505.023	%	70 - 130%	95
	LC24 0.0-0.1	SE259505.024	%	70 - 130%	98
	LC25 0.0-0.1	SE259505.025	%	70 - 130%	99
	LC26 0.0-0.1	SE259505.026	%	70 - 130%	97
	LC27 0.0-0.1	SE259505.027	%	70 - 130%	94
	LC28 0.0-0.1	SE259505.028	%	70 - 130%	90
	LC29 0.0-0.1	SE259505.029	%	70 - 130%	92
	LC30 0.0-0.1	SE259505.030	%	70 - 130%	98
	LC31 0.0-0.1	SE259505.031	%	70 - 130%	101
	LC32 0.0-0.1	SE259505.032	%	70 - 130%	95
	LC33 0.0-0.1	SE259505.033	%	70 - 130%	97
	LC34 0.5-0.6	SE259505.034	%	70 - 130%	103
	LC35 0.0-0.1	SE259505.035	%	70 - 130%	94
	LC36 0.0-0.1	SE259505.036	%	70 - 130%	93
	LC37 0.0-0.1	SE259505.037	%	70 - 130%	92
	QC1	SE259505.038	%	70 - 130%	95
	QC3	SE259505.039	%	70 - 130%	99

PCBs in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	LC1 0.0-0.1	SE259505.001	%	60 - 130%	100
	LC2 0.0-0.1	SE259505.002	%	60 - 130%	102
	LC3 0.0-0.1	SE259505.003	%	60 - 130%	98
	LC4 0.0-0.1	SE259505.004	%	60 - 130%	106
	LC5 0.0-0.1	SE259505.005	%	60 - 130%	109
	LC6 0.0-0.1	SE259505.006	%	60 - 130%	108
	LC7 0.0-0.1	SE259505.007	%	60 - 130%	114
	LC8 0.0-0.1	SE259505.008	%	60 - 130%	112
	LC14 0.0-0.1	SE259505.014	%	60 - 130%	102
	LC15 0.0-0.1	SE259505.015	%	60 - 130%	113
	LC16 0.0-0.1	SE259505.016	%	60 - 130%	116
	LC17 0.5-0.6	SE259505.017	%	60 - 130%	104
	LC18 0.0-0.1	SE259505.018	%	60 - 130%	107
	LC19 0.0-0.1	SE259505.019	%	60 - 130%	106
	LC20 0.0-0.1	SE259505.020	%	60 - 130%	106
	LC21 0.5-0.6	SE259505.021	%	60 - 130%	102
	LC22 0.0-0.1	SE259505.022	%	60 - 130%	108
	LC23 0.0-0.1	SE259505.023	%	60 - 130%	105
	LC24 0.0-0.1	SE259505.024	%	60 - 130%	111
	LC25 0.0-0.1	SE259505.025	%	60 - 130%	106
	LC26 0.0-0.1	SE259505.026	%	60 - 130%	108
	LC27 0.0-0.1	SE259505.027	%	60 - 130%	106

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	LC28 0.0-0.1	SE259505.028	%	60 - 130%	101
	LC29 0.0-0.1	SE259505.029	%	60 - 130%	103
	LC30 0.0-0.1	SE259505.030	%	60 - 130%	111
	LC31 0.0-0.1	SE259505.031	%	60 - 130%	97
	LC32 0.0-0.1	SE259505.032	%	60 - 130%	95
	LC33 0.0-0.1	SE259505.033	%	60 - 130%	101
	LC34 0.5-0.6	SE259505.034	%	60 - 130%	108
	LC35 0.0-0.1	SE259505.035	%	60 - 130%	98
	LC36 0.0-0.1	SE259505.036	%	60 - 130%	94
	LC37 0.0-0.1	SE259505.037	%	60 - 130%	97

Speciated Phenols in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	LC1 0.0-0.1	SE259505.001	%	70 - 130%	96
	LC2 0.0-0.1	SE259505.002	%	70 - 130%	95
	LC3 0.0-0.1	SE259505.003	%	70 - 130%	97
	LC4 0.0-0.1	SE259505.004	%	70 - 130%	92
	LC5 0.0-0.1	SE259505.005	%	70 - 130%	91
	LC6 0.0-0.1	SE259505.006	%	70 - 130%	86
	LC7 0.0-0.1	SE259505.007	%	70 - 130%	94
	LC8 0.0-0.1	SE259505.008	%	70 - 130%	98
	LC14 0.0-0.1	SE259505.014	%	70 - 130%	96
	LC15 0.0-0.1	SE259505.015	%	70 - 130%	97
	LC16 0.0-0.1	SE259505.016	%	70 - 130%	98
	LC17 0.5-0.6	SE259505.017	%	70 - 130%	89
	LC18 0.0-0.1	SE259505.018	%	70 - 130%	97
	LC19 0.0-0.1	SE259505.019	%	70 - 130%	87
	LC20 0.0-0.1	SE259505.020	%	70 - 130%	80
	LC21 0.5-0.6	SE259505.021	%	70 - 130%	90
	LC22 0.0-0.1	SE259505.022	%	70 - 130%	86
	LC23 0.0-0.1	SE259505.023	%	70 - 130%	87
	LC24 0.0-0.1	SE259505.024	%	70 - 130%	91
	LC25 0.0-0.1	SE259505.025	%	70 - 130%	82
	LC26 0.0-0.1	SE259505.026	%	70 - 130%	89
	LC27 0.0-0.1	SE259505.027	%	70 - 130%	82
	LC28 0.0-0.1	SE259505.028	%	70 - 130%	85
	LC29 0.0-0.1	SE259505.029	%	70 - 130%	84
	LC30 0.0-0.1	SE259505.030	%	70 - 130%	85
	LC31 0.0-0.1	SE259505.031	%	70 - 130%	95
	LC32 0.0-0.1	SE259505.032	%	70 - 130%	85
	LC33 0.0-0.1	SE259505.033	%	70 - 130%	88
	LC34 0.5-0.6	SE259505.034	%	70 - 130%	99
	LC35 0.0-0.1	SE259505.035	%	70 - 130%	82
	LC36 0.0-0.1	SE259505.036	%	70 - 130%	93
	LC37 0.0-0.1	SE259505.037	%	70 - 130%	84
d5-phenol (Surrogate)	LC1 0.0-0.1	SE259505.001	%	50 - 130%	93
	LC2 0.0-0.1	SE259505.002	%	50 - 130%	95
	LC3 0.0-0.1	SE259505.003	%	50 - 130%	96
	LC4 0.0-0.1	SE259505.004	%	50 - 130%	92
	LC5 0.0-0.1	SE259505.005	%	50 - 130%	92
	LC6 0.0-0.1	SE259505.006	%	50 - 130%	84
	LC7 0.0-0.1	SE259505.007	%	50 - 130%	93
	LC8 0.0-0.1	SE259505.008	%	50 - 130%	96
	LC14 0.0-0.1	SE259505.014	%	50 - 130%	97
	LC15 0.0-0.1	SE259505.015	%	50 - 130%	98
	LC16 0.0-0.1	SE259505.016	%	50 - 130%	97
	LC17 0.5-0.6	SE259505.017	%	50 - 130%	82
	LC18 0.0-0.1	SE259505.018	%	50 - 130%	97
	LC19 0.0-0.1	SE259505.019	%	50 - 130%	81
	LC20 0.0-0.1	SE259505.020	%	50 - 130%	81
	LC21 0.5-0.6	SE259505.021	%	50 - 130%	94

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Speciated Phenols in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-phenol (Surrogate)	LC22 0.0-0.1	SE259505.022	%	50 - 130%	88
	LC23 0.0-0.1	SE259505.023	%	50 - 130%	92
	LC24 0.0-0.1	SE259505.024	%	50 - 130%	94
	LC25 0.0-0.1	SE259505.025	%	50 - 130%	86
	LC26 0.0-0.1	SE259505.026	%	50 - 130%	87
	LC27 0.0-0.1	SE259505.027	%	50 - 130%	87
	LC28 0.0-0.1	SE259505.028	%	50 - 130%	77
	LC29 0.0-0.1	SE259505.029	%	50 - 130%	74
	LC30 0.0-0.1	SE259505.030	%	50 - 130%	86
	LC31 0.0-0.1	SE259505.031	%	50 - 130%	93
	LC32 0.0-0.1	SE259505.032	%	50 - 130%	87
	LC33 0.0-0.1	SE259505.033	%	50 - 130%	90
	LC34 0.5-0.6	SE259505.034	%	50 - 130%	95
	LC35 0.0-0.1	SE259505.035	%	50 - 130%	88
	LC36 0.0-0.1	SE259505.036	%	50 - 130%	90
	LC37 0.0-0.1	SE259505.037	%	50 - 130%	76

VOC's in Soil — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	LC1 0.0-0.1	SE259505.001	%	60 - 130%	80
	LC2 0.0-0.1	SE259505.002	%	60 - 130%	90
	LC3 0.0-0.1	SE259505.003	%	60 - 130%	86
	LC4 0.0-0.1	SE259505.004	%	60 - 130%	83
	LC5 0.0-0.1	SE259505.005	%	60 - 130%	78
	LC6 0.0-0.1	SE259505.006	%	60 - 130%	77
	LC7 0.0-0.1	SE259505.007	%	60 - 130%	73
	LC8 0.0-0.1	SE259505.008	%	60 - 130%	71
	LC9 0.5-0.6	SE259505.009	%	60 - 130%	80
	LC10 0.0-0.1	SE259505.010	%	60 - 130%	78
	LC11 0.0-0.1	SE259505.011	%	60 - 130%	79
	LC12 0.0-0.1	SE259505.012	%	60 - 130%	80
	LC13 0.5-0.6	SE259505.013	%	60 - 130%	74
	LC14 0.0-0.1	SE259505.014	%	60 - 130%	81
	LC15 0.0-0.1	SE259505.015	%	60 - 130%	76
	LC16 0.0-0.1	SE259505.016	%	60 - 130%	75
	LC17 0.5-0.6	SE259505.017	%	60 - 130%	76
	LC18 0.0-0.1	SE259505.018	%	60 - 130%	72
	LC19 0.0-0.1	SE259505.019	%	60 - 130%	73
	LC20 0.0-0.1	SE259505.020	%	60 - 130%	122
	LC21 0.5-0.6	SE259505.021	%	60 - 130%	84
	LC22 0.0-0.1	SE259505.022	%	60 - 130%	75
	LC23 0.0-0.1	SE259505.023	%	60 - 130%	76
	LC24 0.0-0.1	SE259505.024	%	60 - 130%	82
	LC25 0.0-0.1	SE259505.025	%	60 - 130%	80
	LC26 0.0-0.1	SE259505.026	%	60 - 130%	69
	LC27 0.0-0.1	SE259505.027	%	60 - 130%	76
	LC28 0.0-0.1	SE259505.028	%	60 - 130%	83
	LC29 0.0-0.1	SE259505.029	%	60 - 130%	73
	LC30 0.0-0.1	SE259505.030	%	60 - 130%	79
	LC31 0.0-0.1	SE259505.031	%	60 - 130%	81
	LC32 0.0-0.1	SE259505.032	%	60 - 130%	74
	LC33 0.0-0.1	SE259505.033	%	60 - 130%	76
	LC34 0.5-0.6	SE259505.034	%	60 - 130%	88
	LC35 0.0-0.1	SE259505.035	%	60 - 130%	75
	LC36 0.0-0.1	SE259505.036	%	60 - 130%	83
	LC37 0.0-0.1	SE259505.037	%	60 - 130%	76
	QC1	SE259505.038	%	60 - 130%	78
	QC3	SE259505.039	%	60 - 130%	82
d4-1,2-dichloroethane (Surrogate)	LC1 0.0-0.1	SE259505.001	%	60 - 130%	80
	LC2 0.0-0.1	SE259505.002	%	60 - 130%	92
	LC3 0.0-0.1	SE259505.003	%	60 - 130%	92

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	LC4 0.0-0.1	SE259505.004	%	60 - 130%	89
	LC5 0.0-0.1	SE259505.005	%	60 - 130%	87
	LC6 0.0-0.1	SE259505.006	%	60 - 130%	86
	LC7 0.0-0.1	SE259505.007	%	60 - 130%	82
	LC8 0.0-0.1	SE259505.008	%	60 - 130%	82
	LC9 0.5-0.6	SE259505.009	%	60 - 130%	90
	LC10 0.0-0.1	SE259505.010	%	60 - 130%	86
	LC11 0.0-0.1	SE259505.011	%	60 - 130%	91
	LC12 0.0-0.1	SE259505.012	%	60 - 130%	88
	LC13 0.5-0.6	SE259505.013	%	60 - 130%	83
	LC14 0.0-0.1	SE259505.014	%	60 - 130%	89
	LC15 0.0-0.1	SE259505.015	%	60 - 130%	85
	LC16 0.0-0.1	SE259505.016	%	60 - 130%	82
	LC17 0.5-0.6	SE259505.017	%	60 - 130%	86
	LC18 0.0-0.1	SE259505.018	%	60 - 130%	79
	LC19 0.0-0.1	SE259505.019	%	60 - 130%	79
	LC20 0.0-0.1	SE259505.020	%	60 - 130%	81
	LC21 0.5-0.6	SE259505.021	%	60 - 130%	91
	LC22 0.0-0.1	SE259505.022	%	60 - 130%	82
	LC23 0.0-0.1	SE259505.023	%	60 - 130%	83
	LC24 0.0-0.1	SE259505.024	%	60 - 130%	87
	LC25 0.0-0.1	SE259505.025	%	60 - 130%	88
	LC26 0.0-0.1	SE259505.026	%	60 - 130%	76
	LC27 0.0-0.1	SE259505.027	%	60 - 130%	81
	LC28 0.0-0.1	SE259505.028	%	60 - 130%	90
	LC29 0.0-0.1	SE259505.029	%	60 - 130%	77
	LC30 0.0-0.1	SE259505.030	%	60 - 130%	88
	LC31 0.0-0.1	SE259505.031	%	60 - 130%	90
	LC32 0.0-0.1	SE259505.032	%	60 - 130%	81
	LC33 0.0-0.1	SE259505.033	%	60 - 130%	85
	LC34 0.5-0.6	SE259505.034	%	60 - 130%	95
	LC35 0.0-0.1	SE259505.035	%	60 - 130%	81
	LC36 0.0-0.1	SE259505.036	%	60 - 130%	89
	LC37 0.0-0.1	SE259505.037	%	60 - 130%	82
	QC1	SE259505.038	%	60 - 130%	84
	QC3	SE259505.039	%	60 - 130%	89
d8-toluene (Surrogate)	LC1 0.0-0.1	SE259505.001	%	60 - 130%	86
	LC2 0.0-0.1	SE259505.002	%	60 - 130%	97
	LC3 0.0-0.1	SE259505.003	%	60 - 130%	92
	LC4 0.0-0.1	SE259505.004	%	60 - 130%	95
	LC5 0.0-0.1	SE259505.005	%	60 - 130%	83
	LC6 0.0-0.1	SE259505.006	%	60 - 130%	83
	LC7 0.0-0.1	SE259505.007	%	60 - 130%	77
	LC8 0.0-0.1	SE259505.008	%	60 - 130%	76
	LC9 0.5-0.6	SE259505.009	%	60 - 130%	86
	LC10 0.0-0.1	SE259505.010	%	60 - 130%	82
	LC11 0.0-0.1	SE259505.011	%	60 - 130%	86
	LC12 0.0-0.1	SE259505.012	%	60 - 130%	84
	LC13 0.5-0.6	SE259505.013	%	60 - 130%	79
	LC14 0.0-0.1	SE259505.014	%	60 - 130%	86
	LC15 0.0-0.1	SE259505.015	%	60 - 130%	81
	LC16 0.0-0.1	SE259505.016	%	60 - 130%	76
	LC17 0.5-0.6	SE259505.017	%	60 - 130%	81
	LC18 0.0-0.1	SE259505.018	%	60 - 130%	76
	LC19 0.0-0.1	SE259505.019	%	60 - 130%	76
	LC20 0.0-0.1	SE259505.020	%	60 - 130%	100
	LC21 0.5-0.6	SE259505.021	%	60 - 130%	89
	LC22 0.0-0.1	SE259505.022	%	60 - 130%	78
	LC23 0.0-0.1	SE259505.023	%	60 - 130%	80
	LC24 0.0-0.1	SE259505.024	%	60 - 130%	84
	LC25 0.0-0.1	SE259505.025	%	60 - 130%	86

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 %
d8-toluene (Surrogate)	LC26 0.0-0.1	SE259505.026	%	60 - 130%	72
	LC27 0.0-0.1	SE259505.027	%	60 - 130%	78
	LC28 0.0-0.1	SE259505.028	%	60 - 130%	85
	LC29 0.0-0.1	SE259505.029	%	60 - 130%	73
	LC30 0.0-0.1	SE259505.030	%	60 - 130%	85
	LC31 0.0-0.1	SE259505.031	%	60 - 130%	86
	LC32 0.0-0.1	SE259505.032	%	60 - 130%	78
	LC33 0.0-0.1	SE259505.033	%	60 - 130%	82
	LC34 0.5-0.6	SE259505.034	%	60 - 130%	94
	LC35 0.0-0.1	SE259505.035	%	60 - 130%	78
	LC36 0.0-0.1	SE259505.036	%	60 - 130%	88
	LC37 0.0-0.1	SE259505.037	%	60 - 130%	80
	QC1	SE259505.038	%	60 - 130%	83
	QC3	SE259505.039	%	60 - 130%	89

Volatile Petroleum Hydrocarbons in Soil — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	LC1 0.0-0.1	SE259505.001	%	60 - 130%	80
	LC2 0.0-0.1	SE259505.002	%	60 - 130%	90
	LC3 0.0-0.1	SE259505.003	%	60 - 130%	86
	LC4 0.0-0.1	SE259505.004	%	60 - 130%	83
	LC5 0.0-0.1	SE259505.005	%	60 - 130%	78
	LC6 0.0-0.1	SE259505.006	%	60 - 130%	77
	LC7 0.0-0.1	SE259505.007	%	60 - 130%	73
	LC8 0.0-0.1	SE259505.008	%	60 - 130%	71
	LC9 0.5-0.6	SE259505.009	%	60 - 130%	80
	LC10 0.0-0.1	SE259505.010	%	60 - 130%	78
	LC11 0.0-0.1	SE259505.011	%	60 - 130%	79
	LC12 0.0-0.1	SE259505.012	%	60 - 130%	80
	LC13 0.5-0.6	SE259505.013	%	60 - 130%	74
	LC14 0.0-0.1	SE259505.014	%	60 - 130%	81
	LC15 0.0-0.1	SE259505.015	%	60 - 130%	76
	LC16 0.0-0.1	SE259505.016	%	60 - 130%	75
	LC17 0.5-0.6	SE259505.017	%	60 - 130%	76
	LC18 0.0-0.1	SE259505.018	%	60 - 130%	72
	LC19 0.0-0.1	SE259505.019	%	60 - 130%	73
	LC20 0.0-0.1	SE259505.020	%	60 - 130%	122
	LC21 0.5-0.6	SE259505.021	%	60 - 130%	84
	LC22 0.0-0.1	SE259505.022	%	60 - 130%	75
	LC23 0.0-0.1	SE259505.023	%	60 - 130%	76
	LC24 0.0-0.1	SE259505.024	%	60 - 130%	82
	LC25 0.0-0.1	SE259505.025	%	60 - 130%	80
	LC26 0.0-0.1	SE259505.026	%	60 - 130%	69
	LC27 0.0-0.1	SE259505.027	%	60 - 130%	76
	LC28 0.0-0.1	SE259505.028	%	60 - 130%	83
	LC29 0.0-0.1	SE259505.029	%	60 - 130%	73
	LC30 0.0-0.1	SE259505.030	%	60 - 130%	79
	LC31 0.0-0.1	SE259505.031	%	60 - 130%	81
	LC32 0.0-0.1	SE259505.032	%	60 - 130%	74
	LC33 0.0-0.1	SE259505.033	%	60 - 130%	76
	LC34 0.5-0.6	SE259505.034	%	60 - 130%	88
	LC35 0.0-0.1	SE259505.035	%	60 - 130%	75
	LC36 0.0-0.1	SE259505.036	%	60 - 130%	83
	LC37 0.0-0.1	SE259505.037	%	60 - 130%	76
	QC1	SE259505.038	%	60 - 130%	78
	QC3	SE259505.039	%	60 - 130%	82
d4-1,2-dichloroethane (Surrogate)	LC1 0.0-0.1	SE259505.001	%	60 - 130%	80
	LC2 0.0-0.1	SE259505.002	%	60 - 130%	92
	LC3 0.0-0.1	SE259505.003	%	60 - 130%	92
	LC4 0.0-0.1	SE259505.004	%	60 - 130%	89
	LC5 0.0-0.1	SE259505.005	%	60 - 130%	87

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	LC6 0.0-0.1	SE259505.006	%	60 - 130%	86
	LC7 0.0-0.1	SE259505.007	%	60 - 130%	82
	LC8 0.0-0.1	SE259505.008	%	60 - 130%	82
	LC9 0.5-0.6	SE259505.009	%	60 - 130%	90
	LC10 0.0-0.1	SE259505.010	%	60 - 130%	86
	LC11 0.0-0.1	SE259505.011	%	60 - 130%	91
	LC12 0.0-0.1	SE259505.012	%	60 - 130%	88
	LC13 0.5-0.6	SE259505.013	%	60 - 130%	83
	LC14 0.0-0.1	SE259505.014	%	60 - 130%	89
	LC15 0.0-0.1	SE259505.015	%	60 - 130%	85
	LC16 0.0-0.1	SE259505.016	%	60 - 130%	82
	LC17 0.5-0.6	SE259505.017	%	60 - 130%	86
	LC18 0.0-0.1	SE259505.018	%	60 - 130%	79
	LC19 0.0-0.1	SE259505.019	%	60 - 130%	79
	LC20 0.0-0.1	SE259505.020	%	60 - 130%	81
	LC21 0.5-0.6	SE259505.021	%	60 - 130%	91
	LC22 0.0-0.1	SE259505.022	%	60 - 130%	82
	LC23 0.0-0.1	SE259505.023	%	60 - 130%	83
	LC24 0.0-0.1	SE259505.024	%	60 - 130%	87
	LC25 0.0-0.1	SE259505.025	%	60 - 130%	88
	LC26 0.0-0.1	SE259505.026	%	60 - 130%	76
	LC27 0.0-0.1	SE259505.027	%	60 - 130%	81
	LC28 0.0-0.1	SE259505.028	%	60 - 130%	90
	LC29 0.0-0.1	SE259505.029	%	60 - 130%	77
	LC30 0.0-0.1	SE259505.030	%	60 - 130%	88
	LC31 0.0-0.1	SE259505.031	%	60 - 130%	90
	LC32 0.0-0.1	SE259505.032	%	60 - 130%	81
	LC33 0.0-0.1	SE259505.033	%	60 - 130%	85
	LC34 0.5-0.6	SE259505.034	%	60 - 130%	95
	LC35 0.0-0.1	SE259505.035	%	60 - 130%	81
	LC36 0.0-0.1	SE259505.036	%	60 - 130%	89
	LC37 0.0-0.1	SE259505.037	%	60 - 130%	82
	QC1	SE259505.038	%	60 - 130%	84
	QC3	SE259505.039	%	60 - 130%	89
d8-toluene (Surrogate)	LC1 0.0-0.1	SE259505.001	%	60 - 130%	86
	LC2 0.0-0.1	SE259505.002	%	60 - 130%	97
	LC3 0.0-0.1	SE259505.003	%	60 - 130%	92
	LC4 0.0-0.1	SE259505.004	%	60 - 130%	95
	LC5 0.0-0.1	SE259505.005	%	60 - 130%	83
	LC6 0.0-0.1	SE259505.006	%	60 - 130%	83
	LC7 0.0-0.1	SE259505.007	%	60 - 130%	77
	LC8 0.0-0.1	SE259505.008	%	60 - 130%	76
	LC9 0.5-0.6	SE259505.009	%	60 - 130%	86
	LC10 0.0-0.1	SE259505.010	%	60 - 130%	82
	LC11 0.0-0.1	SE259505.011	%	60 - 130%	86
	LC12 0.0-0.1	SE259505.012	%	60 - 130%	84
	LC13 0.5-0.6	SE259505.013	%	60 - 130%	79
	LC14 0.0-0.1	SE259505.014	%	60 - 130%	86
	LC15 0.0-0.1	SE259505.015	%	60 - 130%	81
	LC16 0.0-0.1	SE259505.016	%	60 - 130%	76
	LC17 0.5-0.6	SE259505.017	%	60 - 130%	81
	LC18 0.0-0.1	SE259505.018	%	60 - 130%	76
	LC19 0.0-0.1	SE259505.019	%	60 - 130%	76
	LC20 0.0-0.1	SE259505.020	%	60 - 130%	100
	LC21 0.5-0.6	SE259505.021	%	60 - 130%	89
	LC22 0.0-0.1	SE259505.022	%	60 - 130%	78
	LC23 0.0-0.1	SE259505.023	%	60 - 130%	80
	LC24 0.0-0.1	SE259505.024	%	60 - 130%	84
	LC25 0.0-0.1	SE259505.025	%	60 - 130%	86
	LC26 0.0-0.1	SE259505.026	%	60 - 130%	72
	LC27 0.0-0.1	SE259505.027	%	60 - 130%	78

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	LC28 0.0-0.1	SE259505.028	%	60 - 130%	85
	LC29 0.0-0.1	SE259505.029	%	60 - 130%	73
	LC30 0.0-0.1	SE259505.030	%	60 - 130%	85
	LC31 0.0-0.1	SE259505.031	%	60 - 130%	86
	LC32 0.0-0.1	SE259505.032	%	60 - 130%	78
	LC33 0.0-0.1	SE259505.033	%	60 - 130%	82
	LC34 0.5-0.6	SE259505.034	%	60 - 130%	94
	LC35 0.0-0.1	SE259505.035	%	60 - 130%	78
	LC36 0.0-0.1	SE259505.036	%	60 - 130%	88
	LC37 0.0-0.1	SE259505.037	%	60 - 130%	80
	QC1	SE259505.038	%	60 - 130%	83
	QC3	SE259505.039	%	60 - 130%	89

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
LB302129.001	Mercury	mg/kg	0.05	<0.05
LB302130.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB302058.001		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
		Isodrin	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
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		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)	%	-	97
LB302060.001		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
		Isodrin	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
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		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)	%	-	108

OP Pesticides in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB302058.001	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

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 (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB302058.001		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)	%	-	96
		d14-p-terphenyl (Surrogate)	%	-	97
LB302060.001		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)	%	-	78
		d14-p-terphenyl (Surrogate)	%	-	85

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB302058.001		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)	%	-	95
		2-fluorobiphenyl (Surrogate)	%	-	96
		d14-p-terphenyl (Surrogate)	%	-	97
LB302060.001		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

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
LB302060.001	Surrogates	d5-nitrobenzene (Surrogate)	%	-	79
		2-fluorobiphenyl (Surrogate)	%	-	78
		d14-p-terphenyl (Surrogate)	%	-	85

PCBs in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB302058.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	97
LB302060.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	108

Speciated Phenols in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB302056.001		Phenol	mg/kg	0.5	<0.5
		2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1
		2-chlorophenol	mg/kg	0.5	<0.5
		2,4-dimethylphenol	mg/kg	0.5	<0.5
		2,6-dichlorophenol	mg/kg	0.5	<0.5
		2,4-dichlorophenol	mg/kg	0.5	<0.5
		4-chloro-3-methylphenol	mg/kg	2	<2
		2,4,6-trichlorophenol	mg/kg	0.5	<0.5
		2-nitrophenol	mg/kg	0.5	<0.5
		4-nitrophenol	mg/kg	1	<1
		2,4,5-trichlorophenol	mg/kg	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1
		Pentachlorophenol	mg/kg	0.5	<0.5
		2,4-dinitrophenol	mg/kg	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	104
		d5-phenol (Surrogate)	%	-	101
LB302057.001		Phenol	mg/kg	0.5	<0.5
		2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1
		2-chlorophenol	mg/kg	0.5	<0.5
		2,4-dimethylphenol	mg/kg	0.5	<0.5
		2,6-dichlorophenol	mg/kg	0.5	<0.5
		2,4-dichlorophenol	mg/kg	0.5	<0.5
		4-chloro-3-methylphenol	mg/kg	2	<2
		2,4,6-trichlorophenol	mg/kg	0.5	<0.5
		2-nitrophenol	mg/kg	0.5	<0.5
		4-nitrophenol	mg/kg	1	<1
		2,4,5-trichlorophenol	mg/kg	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1
		Pentachlorophenol	mg/kg	0.5	<0.5

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Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Speciated Phenols in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB302057.001		2,4-dinitrophenol	mg/kg	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	97
		d5-phenol (Surrogate)	%	-	83

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

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

Sample Number		Parameter	Units	LOR	Result
LB302125.001		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
LB302126.001		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
LB302058.001		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
LB302060.001		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
LB302120.001	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
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	93
		d8-toluene (Surrogate)	%	-	92
		Bromofluorobenzene (Surrogate)	%	-	90
	Totals	Total BTEX*	mg/kg	0.6	<0.6
LB302121.001	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
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	92
		d8-toluene (Surrogate)	%	-	91
		Bromofluorobenzene (Surrogate)	%	-	91
	Totals	Total BTEX*	mg/kg	0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB302120.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	93
LB302121.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	92

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.010	LB302129.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE259505.019	LB302129.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE259505.029	LB302130.014	Mercury	mg/kg	0.05	0.06	0.07	107	6

Moisture Content

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.010	LB302134.011	% Moisture	%w/w	1	10.5	10.4	40	1
SE259505.019	LB302134.021	% Moisture	%w/w	1	11.3	11.7	39	3
SE259505.029	LB302135.011	% Moisture	%w/w	1	20.5	21.7	35	6
SE259505.039	LB302135.022	% Moisture	%w/w	1	25.9	25.8	34	0

OC Pesticides in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.008	LB302058.026		Alpha BHC	mg/kg	0.1	<0.1	0.0006485550	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	0.0001841427	200	0
			Beta BHC	mg/kg	0.1	<0.1	0.0026125883	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	0.0008133807	200	0
			Delta BHC	mg/kg	0.1	<0.1	0.0047301057	200	0
			Heptachlor	mg/kg	0.1	<0.1	0.0003782113	200	0
			Aldrin	mg/kg	0.1	<0.1	0.0002927594	200	0
			Isodrin	mg/kg	0.1	<0.1	0.0020237381	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	0.0006230184	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	0	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	0.0015008639	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	0.0014613083	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	0.0014613002	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	0.0083320559	200	0
			Dieldrin	mg/kg	0.2	<0.2	0.0002810529	200	0
			Endrin	mg/kg	0.2	<0.2	0.0020540670	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	0.0002865864	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	0.0548881122	189	0
			p,p'-DDD	mg/kg	0.1	<0.1	0.0003105062	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	0.0087330394	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	0.0004565383	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	0.0003096828	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	0.0056397651	200	0
			Endrin ketone	mg/kg	0.1	<0.1	0.0051529019	200	0
			Methoxychlor	mg/kg	0.1	<0.1	0.0009414207	200	0
			Mirex	mg/kg	0.1	<0.1	0.0095679702	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	0.0006631327	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	0	200	0
			Total OC VIC EPA	mg/kg	1	<1	0	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.1627215819	30	4
SE259505.019	LB302058.024		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	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	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.019	LB302058.024		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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	30	2
SE259505.029	LB302060.014		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
			Isodrin	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
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	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	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	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
			o,p'-DDT*	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
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.18	30	13
SE259505.037	LB302060.027		Alpha BHC	mg/kg	0.1	<0.1	0	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	0.0003375947	200	0
			Beta BHC	mg/kg	0.1	<0.1	0.0002875238	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	0	200	0
			Delta BHC	mg/kg	0.1	<0.1	0.0055857466	200	0
			Heptachlor	mg/kg	0.1	<0.1	0	200	0
			Aldrin	mg/kg	0.1	<0.1	0.0037988097	200	0
			Isodrin	mg/kg	0.1	<0.1	0.0034788039	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	0	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	0.0015777724	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	0.0026088126	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	0.0025475305	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	0.0025475243	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	0.0020252612	200	0
			Dieldrin	mg/kg	0.2	<0.2	0.0008955004	200	0
			Endrin	mg/kg	0.2	<0.2	0.0026223405	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	0	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	0.0019823604	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	0.0006064436	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.037	LB302060.027		Endrin aldehyde	mg/kg	0.1	<0.1	0.0079327612	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	0.0006311353	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	0.0006048354	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	0.0089413288	200	0
			Endrin ketone	mg/kg	0.1	<0.1	0.0012244434	200	0
			Methoxychlor	mg/kg	0.1	<0.1	0	200	0
			Mirex	mg/kg	0.1	<0.1	0.0029034537	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	0	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	0	200	0
			Total OC VIC EPA	mg/kg	1	<1	0	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.1585961489	30	9

OP Pesticides in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.008	LB302058.026		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	0.0011289384	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	0	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	0.0012161283	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	0.0163096646	200	0
			Dichlorvos	mg/kg	0.5	<0.5	0	200	0
			Dimethoate	mg/kg	0.5	<0.5	0	200	0
			Ethion	mg/kg	0.2	<0.2	0.0005281926	200	0
			Fenitrothion	mg/kg	0.2	<0.2	0	200	0
			Malathion	mg/kg	0.2	<0.2	0.0102335402	200	0
			Methidathion	mg/kg	0.5	<0.5	0.0013308549	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	0	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	0	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4900840886	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5470922459	30	5
SE259505.019	LB302058.024		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
SE259505.029	LB302060.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
SE259505.037	LB302060.027		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	0	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	0	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	0.0016369873	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	0.0161606233	200	0
			Dichlorvos	mg/kg	0.5	<0.5	0	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OP Pesticides in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.037	LB302060.027		Dimethoate	mg/kg	0.5	<0.5	0.0024755941	200	0
			Ethion	mg/kg	0.2	<0.2	0.0004442153	200	0
			Fenitrothion	mg/kg	0.2	<0.2	0.0002227633	200	0
			Malathion	mg/kg	0.2	<0.2	0.0007266859	200	0
			Methidathion	mg/kg	0.5	<0.5	0.0003220762	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	0	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	0	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4642751205	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5357200439	30	3

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.008	LB302058.026		Naphthalene	mg/kg	0.1	<0.1	0.0008642355	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	0	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	0.0003247233	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	0	200	0
			Acenaphthene	mg/kg	0.1	<0.1	0	200	0
			Fluorene	mg/kg	0.1	<0.1	0.0025879033	200	0
			Phenanthrene	mg/kg	0.1	<0.1	0.0012338605	200	0
			Anthracene	mg/kg	0.1	<0.1	0.0010905983	200	0
			Fluoranthene	mg/kg	0.1	<0.1	0.0004920253	200	0
			Pyrene	mg/kg	0.1	<0.1	0.0005509157	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	0.0052320031	200	0
			Chrysene	mg/kg	0.1	<0.1	0.0055230639	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	0.0006751476	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0.0010029583	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	0.0002652515	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0.0001439073	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	0.0001460645	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	0.0002387248	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	0	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	0.121	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	0.242	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	0	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5102871699	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4900840886	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5470922459	30	5
SE259505.019	LB302058.024		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	0.5	30	0
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.019	LB302058.024	Surrogates	d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4
SE259505.029	LB302060.014		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	-	0.5	0.5	30	4
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
SE259505.037	LB302060.027		Naphthalene	mg/kg	0.1	<0.1	0.0001762579	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	0.0004811379	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	0.0004960055	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	0.0001062256	200	0
			Acenaphthene	mg/kg	0.1	<0.1	0.0001582285	200	0
			Fluorene	mg/kg	0.1	<0.1	0	200	0
			Phenanthrene	mg/kg	0.1	<0.1	0.0011790226	200	0
			Anthracene	mg/kg	0.1	<0.1	0.0013718913	200	0
			Fluoranthene	mg/kg	0.1	<0.1	0.0007216080	200	0
			Pyrene	mg/kg	0.1	<0.1	0.0007802242	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	0.0069527834	200	0
			Chrysene	mg/kg	0.1	<0.1	0.0072854538	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	0.0015085558	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0.0007451225	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	0	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0.0007240565	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	0.0004559949	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	0.0004891989	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	0	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	0.121	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	0.242	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	0	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.4674340513	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4642751205	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5357200439	30	3

PCBs in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.008	LB302058.027	Arochlor 1016	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1221	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1232	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1242	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1248	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1254	mg/kg	0.2	<0.2	0	200	0
		Arochlor 1260	mg/kg	0.2	<0.2	0	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PCBs in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.008	LB302058.027		Arochlor 1262	mg/kg	0.2	<0.2	0	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	0	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	0	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0.1623552874	30	4
SE259505.019	LB302058.024		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	2
SE259505.029	LB302060.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	14
SE259505.037	LB302060.028		Arochlor 1016	mg/kg	0.2	<0.2	0	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	0	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	0	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	0	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	0	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	0	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	0	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	0	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	0	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	0	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0.1585725200	30	9

Speciated Phenols in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.015	LB302056.014		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.9	5.1	30	4
			d5-phenol (Surrogate)	mg/kg	-	2.0	2.0	30	1
SE259505.019	LB302056.019		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Speciated Phenols in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.019	LB302056.019		Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.3	4.6	30	5
			d5-phenol (Surrogate)	mg/kg	-	1.6	1.7	30	4
SE259505.029	LB302057.014		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.2	4.1	30	1
			d5-phenol (Surrogate)	mg/kg	-	1.5	1.8	30	18
SE259505.037	LB302057.023		Phenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	200	0
			Total Cresol	mg/kg	1.5	<1.5	<1.5	200	0
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	200	0
			2,4,6-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	200	0
			4-nitrophenol	mg/kg	1	<1	<1	200	0
			2,4,5-trichlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	200	0
			Pentachlorophenol	mg/kg	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	mg/kg	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.2	4.8	30	14
			d5-phenol (Surrogate)	mg/kg	-	1.5	1.9	30	20

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 %
SE259505.010	LB302125.014	Arsenic, As	mg/kg	1	9	9	41	0
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	10	10	35	3
		Copper, Cu	mg/kg	0.5	33	33	32	0
		Nickel, Ni	mg/kg	0.5	8.3	8.5	36	3
		Lead, Pb	mg/kg	1	9	9	41	6
		Zinc, Zn	mg/kg	2	43	44	35	3

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.019	LB302125.024		Arsenic, As	mg/kg	1	4	4	57	6
			Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
			Chromium, Cr	mg/kg	0.5	8.2	8.5	36	4
			Copper, Cu	mg/kg	0.5	12	12	34	4
			Nickel, Ni	mg/kg	0.5	7.2	7.2	37	0
			Lead, Pb	mg/kg	1	9	8	42	4
			Zinc, Zn	mg/kg	2	26	25	38	4
SE259505.029	LB302126.014		Arsenic, As	mg/kg	1	5	5	49	2
			Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
			Chromium, Cr	mg/kg	0.5	27	26	32	4
			Copper, Cu	mg/kg	0.5	25	25	32	3
			Nickel, Ni	mg/kg	0.5	10	11	35	2
			Lead, Pb	mg/kg	1	28	29	33	3
			Zinc, Zn	mg/kg	2	94	86	32	9

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.008	LB302058.026		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
SE259505.019	LB302058.024		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
SE259505.029	LB302060.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	63	133	34
			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	187	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE259505.037	LB302060.027		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

VOC's in Soil

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

Original	Duplicate	Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.010	LB302120.014	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	-	8.6	8.2	50	5
			d8-toluene (Surrogate)	mg/kg	-	8.2	7.3	50	12
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.8	7.5	50	4
		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
SE259505.019	LB302120.024	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	-	7.9	7.9	50	1
			d8-toluene (Surrogate)	mg/kg	-	7.6	7.1	50	6
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.3	7.4	50	0
		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
SE259505.029	LB302121.014	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	-	7.7	8.0	50	3
			d8-toluene (Surrogate)	mg/kg	-	7.3	7.7	50	5
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.3	7.3	50	1
		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
SE259505.037	LB302121.027	Monocyclic	Benzene	mg/kg	0.1	<0.1	0.0009115345	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	0	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	0.0004420697	200	0
			m/p-xylene	mg/kg	0.2	<0.2	0.0011769240	200	0
			o-xylene	mg/kg	0.1	<0.1	0.0004814471	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	0.0009718912	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.2	7.8793951406	50	4
			d8-toluene (Surrogate)	mg/kg	-	8.0	7.5845505602	50	6
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	7.1552711600	50	6
		Totals	Total BTEX*	mg/kg	0.6	<0.6	0	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	0.0016583712	200	0

Volatile Petroleum Hydrocarbons in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.010	LB302120.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	8.2	50	5
			d8-toluene (Surrogate)	mg/kg	-	8.2	7.3	50	12
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.8	7.5	50	4
		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
SE259505.019	LB302120.024		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	-	7.9	7.9	50	1
			d8-toluene (Surrogate)	mg/kg	-	7.6	7.1	50	6
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.3	7.4	50	0
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259505.029	LB302121.014		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	-	7.7	8.0	50	3
			d8-toluene (Surrogate)	mg/kg	-	7.3	7.7	50	5
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.3	7.3	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
SE259505.037	LB302121.027		TRH C6-C10	mg/kg	25	<25	0	200	0
			TRH C6-C9	mg/kg	20	<20	0	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.2	7.8793951406	50	4
			d8-toluene (Surrogate)	mg/kg	-	8.0	7.5845505602	50	6
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	7.1552711600	50	6
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	0.0009115345	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]AN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB302129.002	Mercury	mg/kg	0.05	0.20	0.2	80 - 120	100
LB302130.002	Mercury	mg/kg	0.05	0.23	0.2	80 - 120	115

OC Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB302058.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	101
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	106
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	105
		Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	104
		Endrin	mg/kg	0.2	0.2	0.2	60 - 140	101
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	119
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.15	40 - 130	90
LB302060.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	124
		Heptachlor	mg/kg	0.1	0.3	0.2	60 - 140	129
		Aldrin	mg/kg	0.1	0.3	0.2	60 - 140	129
		Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	123
		Endrin	mg/kg	0.2	0.2	0.2	60 - 140	119
		p,p'-DDT	mg/kg	0.1	0.3	0.2	60 - 140	128
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.15	40 - 130	100

OP Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB302058.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.9	2	60 - 140	94
		Diazinon (Dimpylate)	mg/kg	0.5	1.9	2	60 - 140	95
		Dichlorvos	mg/kg	0.5	1.2	2	60 - 140	62
		Ethion	mg/kg	0.2	1.7	2	60 - 140	85
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	97
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
LB302060.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.2	2	60 - 140	112
		Diazinon (Dimpylate)	mg/kg	0.5	2.2	2	60 - 140	109
		Dichlorvos	mg/kg	0.5	1.6	2	60 - 140	81
		Ethion	mg/kg	0.2	2.0	2	60 - 140	98
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	100
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	109

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB302058.002		Naphthalene	mg/kg	0.1	4.0	4	60 - 140	101
		Acenaphthylene	mg/kg	0.1	3.9	4	60 - 140	98
		Acenaphthene	mg/kg	0.1	4.2	4	60 - 140	104
		Phenanthrene	mg/kg	0.1	4.1	4	60 - 140	101
		Anthracene	mg/kg	0.1	4.2	4	60 - 140	104
		Fluoranthene	mg/kg	0.1	4.2	4	60 - 140	104
		Pyrene	mg/kg	0.1	4.3	4	60 - 140	108
		Benzo(a)pyrene	mg/kg	0.1	4.0	4	60 - 140	101
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	96
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	97
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	105
LB302060.002		Naphthalene	mg/kg	0.1	4.0	4	60 - 140	101
		Acenaphthylene	mg/kg	0.1	4.0	4	60 - 140	101
		Acenaphthene	mg/kg	0.1	4.2	4	60 - 140	105
		Phenanthrene	mg/kg	0.1	4.1	4	60 - 140	104
		Anthracene	mg/kg	0.1	4.2	4	60 - 140	105
		Fluoranthene	mg/kg	0.1	4.4	4	60 - 140	111
		Pyrene	mg/kg	0.1	4.3	4	60 - 140	109
		Benzo(a)pyrene	mg/kg	0.1	4.2	4	60 - 140	105
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	101
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	100
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	109

PCBs in Soil

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

Sample Number	Parameter	Units	LOR

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PCBs in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB302058.002		Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	111
LB302060.002		Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	99

Speciated Phenols in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB302056.002		Phenol	mg/kg	0.5	1.0	1	70 - 130	104
		2,4-dichlorophenol	mg/kg	0.5	0.9	1	70 - 130	90
		2,4,6-trichlorophenol	mg/kg	0.5	0.9	1	70 - 130	92
		Pentachlorophenol	mg/kg	0.5	0.8	1	70 - 130	78
	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.4	5	40 - 130	108
		d5-phenol (Surrogate)	mg/kg	-	2.1	2	40 - 130	103
LB302057.002		Phenol	mg/kg	0.5	1.0	1	70 - 130	104
		2,4-dichlorophenol	mg/kg	0.5	1.0	1	70 - 130	102
		2,4,6-trichlorophenol	mg/kg	0.5	0.9	1	70 - 130	94
		Pentachlorophenol	mg/kg	0.5	0.8	1	70 - 130	80
	Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.2	5	40 - 130	103
		d5-phenol (Surrogate)	mg/kg	-	2.1	2	40 - 130	106

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 %
LB302125.002		Arsenic, As	mg/kg	1	340	318.22	80 - 120	105
		Cadmium, Cd	mg/kg	0.3	4.5	4.81	70 - 130	93
		Chromium, Cr	mg/kg	0.5	44	38.31	80 - 120	115
		Copper, Cu	mg/kg	0.5	320	290	80 - 120	111
		Nickel, Ni	mg/kg	0.5	190	187	80 - 120	102
		Lead, Pb	mg/kg	1	88	89.9	80 - 120	98
		Zinc, Zn	mg/kg	2	280	273	80 - 120	102
LB302126.002		Arsenic, As	mg/kg	1	320	318.22	80 - 120	101
		Cadmium, Cd	mg/kg	0.3	4.3	4.81	70 - 130	90
		Chromium, Cr	mg/kg	0.5	42	38.31	80 - 120	109
		Copper, Cu	mg/kg	0.5	310	290	80 - 120	107
		Nickel, Ni	mg/kg	0.5	180	187	80 - 120	97
		Lead, Pb	mg/kg	1	85	89.9	80 - 120	94
		Zinc, Zn	mg/kg	2	260	273	80 - 120	97

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB302058.002		TRH C10-C14	mg/kg	20	36	40	60 - 140	90
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	87
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	95
	TRH F Bands	TRH >C10-C16	mg/kg	25	36	40	60 - 140	90
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	90
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	99
LB302060.002		TRH C10-C14	mg/kg	20	44	40	60 - 140	109
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	90
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	74
	TRH F Bands	TRH >C10-C16	mg/kg	25	44	40	60 - 140	109
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	73
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	72

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB302120.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.1	5	60 - 140	83
		Toluene	mg/kg	0.1	4.3	5	60 - 140	85
		Ethylbenzene	mg/kg	0.1	4.2	5	60 - 140	85
		m/p-xylene	mg/kg	0.2	8.5	10	60 - 140	85
		o-xylene	mg/kg	0.1	4.4	5	60 - 140	88
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.2	10	70 - 130	112
		d8-toluene (Surrogate)	mg/kg	-	10.7	10	70 - 130	107
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.9	10	70 - 130	99
LB302121.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.3	5	60 - 140	86
		Toluene	mg/kg	0.1	4.3	5	60 - 140	87

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 %
LB302121.002	Monocyclic	Ethylbenzene	mg/kg	0.1	4.4	5	60 - 140	89
	Aromatic	m/p-xylene	mg/kg	0.2	8.9	10	60 - 140	89
		o-xylene	mg/kg	0.1	4.5	5	60 - 140	91
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.0	10	70 - 130	110
		d8-toluene (Surrogate)	mg/kg	-	10.4	10	70 - 130	104
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.0	10	70 - 130	100

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB302120.002		TRH C6-C10	mg/kg	25	82	92.5	60 - 140	89
		TRH C6-C9	mg/kg	20	74	80	60 - 140	93
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.2	10	70 - 130	112
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.9	10	70 - 130	99
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	57	62.5	60 - 140	90
LB302121.002		TRH C6-C10	mg/kg	25	71	92.5	60 - 140	77
		TRH C6-C9	mg/kg	20	64	80	60 - 140	80
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.0	10	70 - 130	110
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.0	10	70 - 130	100
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	44	62.5	60 - 140	71

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259505.001	LB302129.004	Mercury	mg/kg	0.05	0.25	<0.05	0.2	125
SE259505.020	LB302130.004	Mercury	mg/kg	0.05	0.27	<0.05	0.2	119

OC Pesticides in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259505.001	LB302058.004		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	117
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	124
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	123
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	0.2	<0.2	0.2	119
			Endrin	mg/kg	0.2	0.2	<0.2	0.2	115
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDD*	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	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.3	<0.1	0.2	133
			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	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
			Total OC VIC EPA	mg/kg	1	1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.15	-	104
SE259505.020	LB302060.004		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	0.3	<0.1	0.2	126
			Heptachlor	mg/kg	0.1	0.3	<0.1	0.2	135
			Aldrin	mg/kg	0.1	0.3	<0.1	0.2	134
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	0.3	<0.2	0.2	126
			Endrin	mg/kg	0.2	0.2	<0.2	0.2	125
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDD*	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	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.3	<0.1	0.2	130
			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 identifer 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%
SE259505.020	LB302060.004		Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	2	<1	-	-
			Total OC VIC EPA	mg/kg	1	2	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	-	107

OP Pesticides in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259505.001	LB302058.004		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	95
			Diazinon (Dimpylate)	mg/kg	0.5	1.9	<0.5	2	94
			Dichlorvos	mg/kg	0.5	1.3	<0.5	2	63
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	1.7	<0.2	2	87
			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	6.8	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	100
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	106
SE259505.020	LB302060.004		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	2.1	<0.2	2	104
			Diazinon (Dimpylate)	mg/kg	0.5	2.1	<0.5	2	104
			Dichlorvos	mg/kg	0.5	1.6	<0.5	2	78
			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	7.7	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	95
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	109

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259505.001	LB302058.004		Naphthalene	mg/kg	0.1	4.1	<0.1	4	101
			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	4.0	<0.1	4	100
			Acenaphthene	mg/kg	0.1	4.3	<0.1	4	106
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.1	<0.1	4	102
			Anthracene	mg/kg	0.1	4.1	<0.1	4	103
			Fluoranthene	mg/kg	0.1	4.3	<0.1	4	106
			Pyrene	mg/kg	0.1	4.3	<0.1	4	108
			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	4.1	<0.1	4	103
			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	4.1	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	4.2	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	4.3	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	33	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	97

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259505.001	LB302058.004	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	100
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	106
SE259505.020	LB302060.004		Naphthalene	mg/kg	0.1	3.9	<0.1	4	96
			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	3.8	<0.1	4	96
			Acenaphthene	mg/kg	0.1	4.0	<0.1	4	100
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.0	<0.1	4	99
			Anthracene	mg/kg	0.1	4.0	<0.1	4	100
			Fluoranthene	mg/kg	0.1	4.1	<0.1	4	103
			Pyrene	mg/kg	0.1	4.1	<0.1	4	103
			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	3.9	<0.1	4	98
			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	3.9	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	4.0	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	4.1	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	32	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	96
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	95
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	109

PCBs in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259505.001	LB302058.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.5	<0.2	0.4	115
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	-	104
SE259505.020	LB302060.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.4	<0.2	0.4	103
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	-	107

Speciated Phenols in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259505.001	LB302056.004		Phenol	mg/kg	0.5	1.1	<0.5	1	106
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	-	-
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	-	-
			Total Cresol	mg/kg	1.5	<1.5	<1.5	-	-
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,6-dichlorophenol	mg/kg	0.5	<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.

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Speciated Phenols in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259505.001	LB302056.004		2,4-dichlorophenol	mg/kg	0.5	0.9	<0.5	1	86
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	-	-
			2,4,6-trichlorophenol	mg/kg	0.5	0.9	<0.5	1	88
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	-	-
			4-nitrophenol	mg/kg	1	<1	<1	-	-
			2,4,5-trichlorophenol	mg/kg	0.5	0.8	<0.5	-	-
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	-	-
			Pentachlorophenol	mg/kg	0.5	0.7	<0.5	1	70
			2,4-dinitrophenol	mg/kg	2	<2	<2	-	-
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	5.3	4.8	-	105
			d5-phenol (Surrogate)	mg/kg	-	2.0	1.9	-	102
SE259505.020	LB302057.004		Phenol	mg/kg	0.5	1.0	<0.5	1	100
			2-methyl phenol (o-cresol)	mg/kg	0.5	<0.5	<0.5	-	-
			3/4-methyl phenol (m/p-cresol)	mg/kg	1	<1	<1	-	-
			Total Cresol	mg/kg	1.5	<1.5	<1.5	-	-
			2-chlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dimethylphenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,6-dichlorophenol	mg/kg	0.5	<0.5	<0.5	-	-
			2,4-dichlorophenol	mg/kg	0.5	0.7	<0.5	1	72
			4-chloro-3-methylphenol	mg/kg	2	<2	<2	-	-
			2,4,6-trichlorophenol	mg/kg	0.5	0.7	<0.5	1	72
			2-nitrophenol	mg/kg	0.5	<0.5	<0.5	-	-
			4-nitrophenol	mg/kg	1	<1	<1	-	-
			2,4,5-trichlorophenol	mg/kg	0.5	0.6	<0.5	-	-
			2,3,4,6/2,3,5,6-tetrachlorophenol	mg/kg	1	<1	<1	-	-
			Pentachlorophenol	mg/kg	0.5	0.8	<0.5	1	78
			2,4-dinitrophenol	mg/kg	2	<2	<2	-	-
		Surrogates	2,4,6-Tribromophenol (Surrogate)	mg/kg	-	4.4	4.0	-	89
			d5-phenol (Surrogate)	mg/kg	-	1.9	1.6	-	94

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%
SE259505.001	LB302125.004	Arsenic, As	mg/kg	1	43	5	50	76
		Cadmium, Cd	mg/kg	0.3	37	<0.3	50	74
		Chromium, Cr	mg/kg	0.5	44	2.6	50	83
		Copper, Cu	mg/kg	0.5	70	33	50	74
		Nickel, Ni	mg/kg	0.5	42	2.6	50	79
		Lead, Pb	mg/kg	1	43	6	50	74
		Zinc, Zn	mg/kg	2	92	57	50	70
SE259505.020	LB302126.004	Arsenic, As	mg/kg	1	48	4	50	89
		Cadmium, Cd	mg/kg	0.3	43	<0.3	50	86
		Chromium, Cr	mg/kg	0.5	58	10	50	95
		Copper, Cu	mg/kg	0.5	59	13	50	93
		Nickel, Ni	mg/kg	0.5	53	8.1	50	89
		Lead, Pb	mg/kg	1	56	14	50	84
		Zinc, Zn	mg/kg	2	73	33	50	79

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259505.001	LB302058.004		TRH C10-C14	mg/kg	20	41	<20	40	100
			TRH C15-C28	mg/kg	45	<45	<45	40	97
			TRH C29-C36	mg/kg	45	<45	<45	40	98
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	41	<25	40	99
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	41	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	96
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE259505.020	LB302060.004		TRH C10-C14	mg/kg	20	43	<20	40	106
			TRH C15-C28	mg/kg	45	<45	<45	40	102
			TRH C29-C36	mg/kg	45	<45	<45	40	90

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

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TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259505.020	LB302060.004		TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F	TRH >C10-C16	mg/kg	25	43	<25	40	108
		Bands	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	43	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	102
			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%
SE259505.001	LB302120.004	Monocyclic	Benzene	mg/kg	0.1	3.8	<0.1	5	76
		Aromatic	Toluene	mg/kg	0.1	4.0	<0.1	5	79
			Ethylbenzene	mg/kg	0.1	4.2	<0.1	5	84
			m/p-xylene	mg/kg	0.2	8.5	<0.2	10	85
			o-xylene	mg/kg	0.1	4.4	<0.1	5	87
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.7	8.0	10	97
			d8-toluene (Surrogate)	mg/kg	-	9.1	8.6	10	91
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.9	8.0	10	89
		Totals	Total BTEX*	mg/kg	0.6	25	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	13	<0.3	-	-
SE259505.020	LB302121.004	Monocyclic	Benzene	mg/kg	0.1	5.0	<0.1	5	99
		Aromatic	Toluene	mg/kg	0.1	5.2	<0.1	5	104
			Ethylbenzene	mg/kg	0.1	5.5	<0.1	5	109
			m/p-xylene	mg/kg	0.2	11	<0.2	10	110
			o-xylene	mg/kg	0.1	5.7	<0.1	5	113
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	8.1	10	88
			d8-toluene (Surrogate)	mg/kg	-	7.7	10.0	10	77
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.4	12.2	10	84
		Totals	Total BTEX*	mg/kg	0.6	32	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	17	<0.3	-	-

Volatile Petroleum Hydrocarbons in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259505.001	LB302120.004		TRH C6-C10	mg/kg	25	64	<25	92.5	68
			TRH C6-C9	mg/kg	20	58	<20	80	72
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.7	8.0	10	97
			d8-toluene (Surrogate)	mg/kg	-	9.1	8.6	10	91
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.9	8.0	-	89
		VPH F	Benzene (F0)	mg/kg	0.1	3.8	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	39	<25	62.5	61
SE259505.020	LB302121.004		TRH C6-C10	mg/kg	25	89	<25	92.5	96
			TRH C6-C9	mg/kg	20	79	<20	80	99
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	8.1	10	88
			d8-toluene (Surrogate)	mg/kg	-	7.7	10.0	10	77
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.4	12.2	-	84
		VPH F	Benzene (F0)	mg/kg	0.1	5.0	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	57	<25	62.5	90

MATRIX SPIKE DUPLICATES

SE259505 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.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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CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
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Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Limited	Project Name/No:	P23158
Address:	Unit 13/ 71 Leichhardt Street, Kingston ACT 2604	Purchase Order No:	
		Results Required By:	Standard TAT
		Telephone:	
Contact Name:	Leonardo Baeza, Samantha Walsh	Facsimile:	
		Email Results:	leonardo@lanterra.com.au; Samantha@lanterra.com.au

SGS EHS Sydney COC
SE259505

Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD
LC1 0.0-0.1	18/01/2024	1		X		2	X	X	
LC1 0.5-0.6	18/01/2024			X		2			X
LC2 0.0-0.1	18/01/2024	2		X		2	X	X	
LC2 0.5-0.6	18/01/2024			X		2			X
LC3 0.0-0.1	18/01/2024	3		X		2	X	X	
LC3 0.5-0.6	18/01/2024			X		2			X
LC4 0.0-0.1	18/01/2024	4		X		2	X	X	
LC4 0.5-0.6	18/01/2024			X		2			X
LC5 0.0-0.1	18/01/2024	5		X		2	X	X	

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By: G.F	Date/Time 23/01/24
Relinquished By:	Date/Time:	Received By:	Date/Time 10:45
Samples Intact: Yes/ No	Temperature: Ambient/ Chilled 19.6	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
	Comments:		

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Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10
LC5 0.5-0.6	18/01/2024			X		2			X	
LC6 0.0-0.1	18/01/2024	6		X		2	X	X		
LC6 0.5-0.6	18/01/2024			X		2			X	
LC7 0.0-0.1	18/01/2024	7		X		2	X	X		
LC7 0.5-0.6	18/01/2024			X		2			X	
LC8 0.0-0.1	18/01/2024	8		X		2	X	X		
LC8 0.5-0.6	18/01/2024			X		2			X	
LC9 0.0-0.1	18/01/2024			X		2			X	
LC9 0.5-0.6	18/01/2024	9		X		2				X

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By: G.F	Date/Time 23/01/24
Relinquished By:	Date/Time:	Received By:	Date/Time 10:45
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
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Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10
LC9 1.0-1.1	18/01/2024			X		2			X	
LC9 2.0-2.1	18/01/2024			X		2			X	
LC10 0.0-0.1	18/01/2024	10		X		2				X
LC10 0.5-0.6	18/01/2024			X		2			X	
LC10 1.0-1.1	18/01/2024			X		2			X	
LC11 0.0-0.1	18/01/2024	11		X		2				X
LC11 0.5-0.6	18/01/2024			X		2			X	
LC11 1.0-1.1	18/01/2024			X		2			X	
LC12 0.0-0.1	18/01/2024	12		X		2				X

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By: G.F	Date/Time 23/01/24
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Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
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Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10											
LC12 0.5-0.6	18/01/2024			X		2			X												
LC12 1.0-1.1	18/01/2024			X		2			X												
LC13 0.0-0.1	18/01/2024			X		2			X												
LC13 0.5-0.6	18/01/2024	13		X		2				X											
LC13 1.0-1.1	18/01/2024			X		2			X												
LC13 2.0-2.1	18/01/2024			X		2			X												
LC14 0.0-0.1	18/01/2024	14		X		2	X	X													
LC14 0.5-0.6	18/01/2024			X		2			X												
LC14 1.0-1.1	18/01/2024			X		2			X												

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Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
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Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10
LC15 0.0-0.1	18/01/2024	15		X		2	X	X		
LC15 0.5-0.6	18/01/2024			X		2			X	
LC15 1.0-1.1	18/01/2024			X		2			X	
LC15 2.0-2.1	18/01/2024			X		2			X	
LC16 0.0-0.1	18/01/2024	16		X		2	X	X		
LC16 0.5-0.6	18/01/2024			X		2			X	
LC16 1.0-1.1	18/01/2024			X		2			X	
LC16 2.0-2.1	18/01/2024			X		2			X	
LC17 0.0-0.1	18/01/2024			X		2			X	

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By: GF	Date/Time 23/01/24
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Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
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Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10
LC17 0.5-0.6	18/01/2024	17		X		2	X	X		
LC17 1.0-1.1	18/01/2024			X		2			X	
LC17 2.0-2.1	18/01/2024			X		2			X	
LC18 0.0-0.1	18/01/2024	18		X		2	X	X		
LC18 0.5-0.6	18/01/2024			X		2			X	
LC18 1.0-1.1	18/01/2024			X		2			X	
LC18 2.0-2.1	18/01/2024			X		2			X	
LC19 0.0-0.1	18/01/2024	19		X		2	X	X		
LC19 0.5-0.6	18/01/2024			X		2			X	

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Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10												
LC19 1.0-1.1	18/01/2024			X		2			X													
LC20 0.0-0.1	18/01/2024	20		X		2	X	X														
LC20 0.5-0.6	18/01/2024			X		2			X													
LC20 1.0-1.1	18/01/2024			X		2			X													
LC20 2.0-2.1	18/01/2024			X		2			X													
LC21 0.0-0.1	18/01/2024			X		2			X													
LC21 0.5-0.6	18/01/2024	21		X		2	X	X														
LC21 1.0-1.1	18/01/2024			X		2			X													
LC21 2.0-2.1	18/01/2024			X		2			X													

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By: G.F	Date/Time 23/01/24 10:45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
	Comments:		

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		Telephone:	
Contact Name:	Leonardo Baeza, Samantha Walsh	Facsimile:	
		Email Results:	leonardo@lanterra.com.au; Samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10												
LC22 0.0-0.1	19/01/2024	22		X		2	X	X														
LC22 0.5-0.6	19/01/2024			X		2			X													
LC22 1.0-1.1	19/01/2024			X		2			X													
LC22 2.0-2.1	19/01/2024			X		2			X													
LC23 0.0-0.1	19/01/2024	23		X		2	X	X														
LC23 0.5-0.6	19/01/2024			X		2			X													
LC23 1.0-1.1	19/01/2024			X		2			X													
LC23 2.0-2.1	19/01/2024			X		2			X													
LC24 0.0-0.1	19/01/2024	24		X		2	X	X														

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By: GF	Date/Time 23/01/24 10:45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
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Contact Name:	Leonardo Baeza, Samantha Walsh	Facsimile:	
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Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10
LC24 0.5-0.6	19/01/2024			X		2			X	
LC24 1.0-1.1	19/01/2024			X		2			X	
LC24 2.0-2.1	19/01/2024			X		2			X	
LC25 0.0-0.1	19/01/2024	25		X		2	X	X		
LC25 0.5-0.6	19/01/2024			X		2			X	
LC25 1.0-1.1	19/01/2024			X		2			X	
LC25 2.0-2.1	19/01/2024			X		2			X	
LC26 0.0-0.1	19/01/2024	26		X		2	X	X		
LC26 0.5-0.6	19/01/2024			X		2			X	

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By: G.F	Date/Time 23/01/24
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LC26 1.0-1.1	19/01/2024			X		2			X	
LC26 2.0-2.1	19/01/2024			X		2			X	
LC27 0.0-0.1	19/01/2024	27		X		2	X	X		
LC27 0.5-0.6	19/01/2024			X		2			X	
LC27 1.0-1.1	19/01/2024			X		2			X	
LC27 2.0-2.1	19/01/2024			X		2			X	
LC28 0.0-0.1	19/01/2024	28		X		2	X	X		
LC28 0.5-0.6	19/01/2024			X		2			X	
LC28 1.0-1.1	19/01/2024			X		2			X	

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By: G.F	Date/Time 23/01/24
Relinquished By:	Date/Time:	Received By:	Date/Time 10:45
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Limited	Project Name/No:	P23158
Address:	Unit 13/ 71 Leichhardt Street, Kingston ACT 2604	Purchase Order No:	
		Results Required By:	Standard TAT
		Telephone:	
Contact Name:	Leonardo Baeza, Samantha Walsh	Facsimile:	
		Email Results:	leonardo@lanterra.com.au; Samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10
LC28 2.0-2.1	19/01/2024			X		2			X	
LC29 0.0-0.1	19/01/2024	29		X		2	X	X		
LC29 0.5-0.6	19/01/2024			X		2			X	
LC29 1.0-1.1	19/01/2024			X		2			X	
LC29 2.0-2.1	19/01/2024			X		2			X	
LC30 0.0-0.1	19/01/2024	30		X		2	X	X		
LC30 0.5-0.6	19/01/2024			X		2			X	
LC30 1.0-1.1	19/01/2024			X		2			X	
LC31 0.0-0.1	19/01/2024	31		X		2	X	X		

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By: G.F	Date/Time 23/01/24
Relinquished By:	Date/Time:	Received By:	Date/Time 10:45
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Limited	Project Name/No:	P23158
Address:	Unit 13/ 71 Leichhardt Street, Kingston ACT 2604	Purchase Order No:	
		Results Required By:	Standard TAT
		Telephone:	
Contact Name:	Leonardo Baeza, Samantha Walsh	Facsimile:	
		Email Results:	leonardo@lanterra.com.au; Samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10
LC31 0.5-0.6	19/01/2024			X		2			X	
LC31 1.0-1.1	19/01/2024			X		2			X	
LC32 0.0-0.1	19/01/2024	32		X		2	X	X		
LC32 0.5-0.6	19/01/2024			X		2			X	
LC32 1.0-1.1	19/01/2024			X		2			X	
LC33 0.0-0.1	19/01/2024	33		X		2	X	X		
LC33 0.5-0.6	19/01/2024			X		2			X	
LC33 1.0-1.1	19/01/2024			X		2			X	
LC34 0.0-0.1	19/01/2024			X		2			X	

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By: G.F	Date/Time 23/01/24
Relinquished By:	Date/Time:	Received By:	Date/Time 10:45
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Limited	Project Name/No:	P23158
Address:	Unit 13/ 71 Leichhardt Street, Kingston ACT 2604	Purchase Order No:	
		Results Required By:	Standard TAT
		Telephone:	
Contact Name:	Leonardo Baeza, Samantha Walsh	Facsimile:	
		Email Results:	leonardo@lanterra.com.au; Samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10												
LC34 0.5-0.6	19/01/2024	34		X		2	X	X														
LC34 1.0-1.1	19/01/2024			X		2			X													
LC35 0.0-0.1	19/01/2024	35		X		2	X	X														
LC35 0.5-0.6	19/01/2024			X		2			X													
LC35 1.0-1.1	19/01/2024			X		2			X													
LC36 0.0-0.1	19/01/2024	36		X		2	X	X														
LC36 0.5-0.6	19/01/2024			X		2			X													
LC36 1.0-1.1	19/01/2024			X		2			X													
LC37 0.0-0.1	19/01/2024	37		X		2	X	X														

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By: G.F	Date/Time 23/01/24 10:45
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
	Comments:		

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Limited	Project Name/No:	P23158
Address:	Unit 13/ 71 Leichhardt Street, Kingston ACT 2604	Purchase Order No:	
		Results Required By:	Standard TAT
		Telephone:	
Contact Name:	Leonardo Baeza, Samantha Walsh	Facsimile:	
		Email Results:	leonardo@lanterra.com.au; Samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10	Combination 3	Asbestos ID building materials										
LC37 0.5-0.6	19/01/2024			X		2			X													
LC37 1.0-1.1	19/01/2024			X		2			X													
QC1	18/01/2024	38		X		1				X												
QC2	18/01/2024			X		1					X											**Please Forward to Envirolab**
QC3	19/01/2024	39		X		1				X												
QC4	19/01/2024			X		1					X											**Please Forward to Envirolab**
ACM1	18/01/2024	40				1						X										
ACM2	19/01/2024	41				1						X										

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By: G.F	Date/Time [illegible]
Relinquished By:	Date/Time:	Received By:	Date/Time 23/1/24 10:45
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
	Comments:		

SAMPLE RECEIPT ADVICE

SE259505

CLIENT DETAILS

Contact	Leonardo Baeza
Client	LANTERRA CONSULTING PTY LTD
Address	PO BOX 3626 ACT 2611
Telephone	0412 823 931
Facsimile	(Not specified)
Email	leonardo.baeza@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	41

LABORATORY DETAILS

Manager	Huong Crawford
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	Tue 23/1/2024
Report Due	Wed 31/1/2024
SGS Reference	**SE259505**

SUBMISSION DETAILS

This is to confirm that 41 samples were received on Tuesday 23/1/2024. Results are expected to be ready by COB Wednesday 31/1/2024.
Please quote SGS reference SE259505 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	39 Soil, 2 Material	Type of documentation received	COC
Date documentation received	23/1/2024	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	19.6C
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

83 samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.
Extra samples - BH6 1.0-1.1, QC5, QC6

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.

SAMPLE RECEIPT ADVICE

SE259505

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Speciated Phenols in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	LC1 0.0-0.1	30	14	26	11	18	10	11	7
002	LC2 0.0-0.1	30	14	26	11	18	10	11	7
003	LC3 0.0-0.1	30	14	26	11	18	10	11	7
004	LC4 0.0-0.1	30	14	26	11	18	10	11	7
005	LC5 0.0-0.1	30	14	26	11	18	10	11	7
006	LC6 0.0-0.1	30	14	26	11	18	10	11	7
007	LC7 0.0-0.1	30	14	26	11	18	10	11	7
008	LC8 0.0-0.1	30	14	26	11	18	10	11	7
009	LC9 0.5-0.6	-	-	26	-	-	10	11	7
010	LC10 0.0-0.1	-	-	26	-	-	10	11	7
011	LC11 0.0-0.1	-	-	26	-	-	10	11	7
012	LC12 0.0-0.1	-	-	26	-	-	10	11	7
013	LC13 0.5-0.6	-	-	26	-	-	10	11	7
014	LC14 0.0-0.1	30	14	26	11	18	10	11	7
015	LC15 0.0-0.1	30	14	26	11	18	10	11	7
016	LC16 0.0-0.1	30	14	26	11	18	10	11	7
017	LC17 0.5-0.6	30	14	26	11	18	10	11	7
018	LC18 0.0-0.1	30	14	26	11	18	10	11	7
019	LC19 0.0-0.1	30	14	26	11	18	10	11	7
020	LC20 0.0-0.1	30	14	26	11	18	10	11	7
021	LC21 0.5-0.6	30	14	26	11	18	10	11	7
022	LC22 0.0-0.1	30	14	26	11	18	10	11	7
023	LC23 0.0-0.1	30	14	26	11	18	10	11	7
024	LC24 0.0-0.1	30	14	26	11	18	10	11	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

SE259505

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Speciated Phenols in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
025	LC25 0.0-0.1	30	14	26	11	18	10	11	7
026	LC26 0.0-0.1	30	14	26	11	18	10	11	7
027	LC27 0.0-0.1	30	14	26	11	18	10	11	7
028	LC28 0.0-0.1	30	14	26	11	18	10	11	7
029	LC29 0.0-0.1	30	14	26	11	18	10	11	7
030	LC30 0.0-0.1	30	14	26	11	18	10	11	7
031	LC31 0.0-0.1	30	14	26	11	18	10	11	7
032	LC32 0.0-0.1	30	14	26	11	18	10	11	7
033	LC33 0.0-0.1	30	14	26	11	18	10	11	7
034	LC34 0.5-0.6	30	14	26	11	18	10	11	7
035	LC35 0.0-0.1	30	14	26	11	18	10	11	7
036	LC36 0.0-0.1	30	14	26	11	18	10	11	7
037	LC37 0.0-0.1	30	14	26	11	18	10	11	7
038	QC1	-	-	26	-	-	10	11	7
039	QC3	-	-	26	-	-	10	11	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
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SAMPLE RECEIPT ADVICE

SE259505

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil/Waste
001	LC1 0.0-0.1	3	1	1	7
002	LC2 0.0-0.1	3	1	1	7
003	LC3 0.0-0.1	3	1	1	7
004	LC4 0.0-0.1	3	1	1	7
005	LC5 0.0-0.1	3	1	1	7
006	LC6 0.0-0.1	3	1	1	7
007	LC7 0.0-0.1	3	1	1	7
008	LC8 0.0-0.1	3	1	1	7
009	LC9 0.5-0.6	-	1	1	7
010	LC10 0.0-0.1	-	1	1	7
011	LC11 0.0-0.1	-	1	1	7
012	LC12 0.0-0.1	-	1	1	7
013	LC13 0.5-0.6	-	1	1	7
014	LC14 0.0-0.1	3	1	1	7
015	LC15 0.0-0.1	3	1	1	7
016	LC16 0.0-0.1	3	1	1	7
017	LC17 0.5-0.6	3	1	1	7
018	LC18 0.0-0.1	3	1	1	7
019	LC19 0.0-0.1	3	1	1	7
020	LC20 0.0-0.1	3	1	1	7
021	LC21 0.5-0.6	3	1	1	7
022	LC22 0.0-0.1	3	1	1	7
023	LC23 0.0-0.1	3	1	1	7
024	LC24 0.0-0.1	3	1	1	7

CONTINUED OVERLEAF

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The numbers shown in the table indicate the number of results requested in each package.
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SAMPLE RECEIPT ADVICE

SE259505

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre ID in bulk materials	Fibre Identification in soil	Mercury in Soil	Moisture Content	Total Recoverable Elements in Soil/Waste
025	LC25 0.0-0.1	-	3	1	1	7
026	LC26 0.0-0.1	-	3	1	1	7
027	LC27 0.0-0.1	-	3	1	1	7
028	LC28 0.0-0.1	-	3	1	1	7
029	LC29 0.0-0.1	-	3	1	1	7
030	LC30 0.0-0.1	-	3	1	1	7
031	LC31 0.0-0.1	-	3	1	1	7
032	LC32 0.0-0.1	-	3	1	1	7
033	LC33 0.0-0.1	-	3	1	1	7
034	LC34 0.5-0.6	-	3	1	1	7
035	LC35 0.0-0.1	-	3	1	1	7
036	LC36 0.0-0.1	-	3	1	1	7
037	LC37 0.0-0.1	-	3	1	1	7
038	QC1	-	-	1	1	7
039	QC3	-	-	1	1	7
040	ACM1	2	-	-	-	-
041	ACM2	2	-	-	-	-

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 .
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ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	10

LABORATORY DETAILS

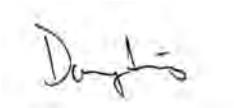
Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE259897 R0**
Date Received	1/2/2024
Date Reported	8/2/2024

COMMENTS

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

SIGNATORIES

Akheeqar BENIAMEEN
Chemist



Dong LIANG
Metals/Inorganics Team Leader

VOCs in Water [AN433] Tested: 6/2/2024

PARAMETER	UOM	LOR	GW1 WATER - 29/1/2024 SE259897.001	GW2 WATER - 29/1/2024 SE259897.002	GW3 WATER - 29/1/2024 SE259897.003	GW4 WATER - 29/1/2024 SE259897.004	GW5 WATER - 29/1/2024 SE259897.005
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	<3	<3	<3

PARAMETER	UOM	LOR	GW WATER - 29/1/2024 SE259897.006	GW7 WATER - 29/1/2024 SE259897.007	GW8 WATER - 29/1/2024 SE259897.008	TB WATER - 29/1/2024 SE259897.009	QC1 WATER - 29/1/2024 SE259897.010
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	<3	<3	<3

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 6/2/2024

PARAMETER	UOM	LOR	GW1 WATER - 29/1/2024 SE259897.001	GW2 WATER - 29/1/2024 SE259897.002	GW3 WATER - 29/1/2024 SE259897.003	GW4 WATER - 29/1/2024 SE259897.004	GW5 WATER - 29/1/2024 SE259897.005
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C9	µg/L	40	<40	<40	<40	<40	<40
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

PARAMETER	UOM	LOR	GW WATER - 29/1/2024 SE259897.006	GW7 WATER - 29/1/2024 SE259897.007	GW8 WATER - 29/1/2024 SE259897.008	TB WATER - 29/1/2024 SE259897.009	QC1 WATER - 29/1/2024 SE259897.010
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C9	µg/L	40	<40	<40	<40	<40	<40
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: 6/2/2024

PARAMETER	UOM	LOR	GW1 WATER - 29/1/2024 SE259897.001	GW2 WATER - 29/1/2024 SE259897.002	GW3 WATER - 29/1/2024 SE259897.003	GW4 WATER - 29/1/2024 SE259897.004	GW5 WATER - 29/1/2024 SE259897.005
TRH C10-C14	µg/L	50	**180**	**370**	<50	<50	**320**
TRH C15-C28	µg/L	200	<200	<200	<200	<200	<200
TRH C29-C36	µg/L	200	<200	**210**	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200	<200
TRH >C10-C16	µg/L	60	**190**	**390**	<60	<60	**340**
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	**190**	**390**	<60	<60	**340**
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	<320	**750**	<320	<320	**550**

PARAMETER	UOM	LOR	GW WATER - 29/1/2024 SE259897.006	GW7 WATER - 29/1/2024 SE259897.007	GW8 WATER - 29/1/2024 SE259897.008	TB WATER - 29/1/2024 SE259897.009	QC1 WATER - 29/1/2024 SE259897.010
TRH C10-C14	µg/L	50	**240**	**530**	**95**	<50	**360**
TRH C15-C28	µg/L	200	<200	**1300**	<200	<200	<200
TRH C29-C36	µg/L	200	<200	**660**	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200	<200	<200
TRH >C10-C16	µg/L	60	**250**	**570**	**100**	<60	**370**
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	**250**	**570**	**100**	<60	**370**
TRH >C16-C34 (F3)	µg/L	500	<500	**1800**	<500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500	<500
TRH C10-C40	µg/L	320	**370**	**2600**	<320	<320	**670**

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 6/2/2024

PARAMETER	UOM	LOR	GW1 WATER - 29/1/2024 SE259897.001	GW2 WATER - 29/1/2024 SE259897.002	GW3 WATER - 29/1/2024 SE259897.003	GW4 WATER - 29/1/2024 SE259897.004	GW5 WATER - 29/1/2024 SE259897.005
Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	GW WATER - 29/1/2024 SE259897.006	GW7 WATER - 29/1/2024 SE259897.007	GW8 WATER - 29/1/2024 SE259897.008	TB WATER - 29/1/2024 SE259897.009	QC1 WATER - 29/1/2024 SE259897.010
Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1	<1	<1

Speciated Phenols in Water [AN420] Tested: 6/2/2024

PARAMETER	UOM	LOR	GW1 WATER - 29/1/2024 SE259897.001	GW2 WATER - 29/1/2024 SE259897.002	GW3 WATER - 29/1/2024 SE259897.003	GW4 WATER - 29/1/2024 SE259897.004	GW5 WATER - 29/1/2024 SE259897.005
Phenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	µg/L	1	<1	<1	<1	<1	<1
Total Cresol	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	µg/L	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1	<1	<1	<1	<1
Pentachlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	µg/L	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	µg/L	2	<2	<2	<2	<2	<2

PARAMETER	UOM	LOR	GW WATER - 29/1/2024 SE259897.006	GW7 WATER - 29/1/2024 SE259897.007	GW8 WATER - 29/1/2024 SE259897.008	TB WATER - 29/1/2024 SE259897.009	QC1 WATER - 29/1/2024 SE259897.010
Phenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-methyl phenol (o-cresol)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3/4-methyl phenol (m/p-cresol)	µg/L	1	<1	<1	<1	<1	<1
Total Cresol	µg/L	1.5	<1.5	<1.5	<1.5	<1.5	<1.5
2-chlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dimethylphenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-dichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-trichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-nitrophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-nitrophenol	µg/L	1	<1	<1	<1	<1	<1
2,4,5-trichlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1	<1	<1	<1	<1
Pentachlorophenol	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-dinitrophenol	µg/L	2	<2	<2	<2	<2	<2
4-chloro-3-methylphenol	µg/L	2	<2	<2	<2	<2	<2

OC Pesticides in Water [AN420] Tested: 6/2/2024

PARAMETER	UOM	LOR	GW1 WATER - 29/1/2024 SE259897.001	GW2 WATER - 29/1/2024 SE259897.002	GW3 WATER - 29/1/2024 SE259897.003	GW4 WATER - 29/1/2024 SE259897.004	GW5 WATER - 29/1/2024 SE259897.005
Alpha BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC	µg/L	1	<1	<1	<1	<1	<1
Total OC	µg/L	1	<1	<1	<1	<1	<1

OC Pesticides in Water [AN420] Tested: 6/2/2024 (continued)

PARAMETER	UOM	LOR	GW WATER - 29/1/2024 SE259897.006	GW7 WATER - 29/1/2024 SE259897.007	GW8 WATER - 29/1/2024 SE259897.008	TB WATER - 29/1/2024 SE259897.009	QC1 WATER - 29/1/2024 SE259897.010
Alpha BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC	µg/L	1	<1	<1	<1	<1	<1
Total OC	µg/L	1	<1	<1	<1	<1	<1

OP Pesticides in Water [AN420] Tested: 6/2/2024

PARAMETER	UOM	LOR	GW1 WATER - 29/1/2024 SE259897.001	GW2 WATER - 29/1/2024 SE259897.002	GW3 WATER - 29/1/2024 SE259897.003	GW4 WATER - 29/1/2024 SE259897.004	GW5 WATER - 29/1/2024 SE259897.005
Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PARAMETER	UOM	LOR	GW WATER - 29/1/2024 SE259897.006	GW7 WATER - 29/1/2024 SE259897.007	GW8 WATER - 29/1/2024 SE259897.008	TB WATER - 29/1/2024 SE259897.009	QC1 WATER - 29/1/2024 SE259897.010
Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2	<0.2

PCBs in Water [AN420] Tested: 6/2/2024

PARAMETER	UOM	LOR	GW1 WATER - 29/1/2024 SE259897.001	GW2 WATER - 29/1/2024 SE259897.002	GW3 WATER - 29/1/2024 SE259897.003	GW4 WATER - 29/1/2024 SE259897.004	GW5 WATER - 29/1/2024 SE259897.005
Arochlor 1016	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1221	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1232	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1242	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1248	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1254	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1260	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1262	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1268	µg/L	1	<1	<1	<1	<1	<1
Total Arochlors*	µg/L	5	<5	<5	<5	<5	<5

PARAMETER	UOM	LOR	GW WATER - 29/1/2024 SE259897.006	GW7 WATER - 29/1/2024 SE259897.007	GW8 WATER - 29/1/2024 SE259897.008	TB WATER - 29/1/2024 SE259897.009	QC1 WATER - 29/1/2024 SE259897.010
Arochlor 1016	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1221	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1232	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1242	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1248	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1254	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1260	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1262	µg/L	1	<1	<1	<1	<1	<1
Arochlor 1268	µg/L	1	<1	<1	<1	<1	<1
Total Arochlors*	µg/L	5	<5	<5	<5	<5	<5

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 2/2/2024

PARAMETER	UOM	LOR	GW1 WATER - 29/1/2024 SE259897.001	GW2 WATER - 29/1/2024 SE259897.002	GW3 WATER - 29/1/2024 SE259897.003	GW4 WATER - 29/1/2024 SE259897.004	GW5 WATER - 29/1/2024 SE259897.005
Arsenic	µg/L	1	<1	<1	<1	<1	<1
Cadmium	µg/L	0.1	<0.1	<0.1	1.3	<0.1	<0.1
Chromium	µg/L	1	<1	<1	<1	<1	<1
Copper	µg/L	1	<1	<1	<1	<1	<1
Lead	µg/L	1	<1	<1	<1	<1	<1
Nickel	µg/L	1	9	11	6	10	110
Zinc	µg/L	5	44	63	11	34	<5

PARAMETER	UOM	LOR	GW WATER - 29/1/2024 SE259897.006	GW7 WATER - 29/1/2024 SE259897.007	GW8 WATER - 29/1/2024 SE259897.008	TB WATER - 29/1/2024 SE259897.009	QC1 WATER - 29/1/2024 SE259897.010
Arsenic	µg/L	1	<1	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	<1	<1	<1	<1
Lead	µg/L	1	<1	<1	<1	<1	<1
Nickel	µg/L	1	28	26	8	<1	11
Zinc	µg/L	5	<5	10	67	<5	63

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 2/2/2024

PARAMETER	UOM	LOR	GW1 WATER - 29/1/2024 SE259897.001	GW2 WATER - 29/1/2024 SE259897.002	GW3 WATER - 29/1/2024 SE259897.003	GW4 WATER - 29/1/2024 SE259897.004	GW5 WATER - 29/1/2024 SE259897.005
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001

PARAMETER	UOM	LOR	GW WATER - 29/1/2024 SE259897.006	GW7 WATER - 29/1/2024 SE259897.007	GW8 WATER - 29/1/2024 SE259897.008	TB WATER - 29/1/2024 SE259897.009	QC1 WATER - 29/1/2024 SE259897.010
Mercury	mg/L	0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
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 Recoveerable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
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).
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.

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.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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STATEMENT OF QA/QC PERFORMANCE

SE259897 R0

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
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Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	10

LABORATORY DETAILS

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SGS Reference	**SE259897 R0**
Date Received	01 Feb 2024
Date Reported	08 Feb 2024

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	OC Pesticides in Water	10 items
	OP Pesticides in Water	10 items
	PAH (Polynuclear Aromatic Hydrocarbons) in Water	10 items
	PCBs in Water	10 items
	TRH (Total Recoverable Hydrocarbons) in Water	10 items
Surrogate	OC Pesticides in Water	1 item
	PCBs in Water	1 item
Duplicate	VOCs in Water	1 item
	Volatile Petroleum Hydrocarbons in Water	1 item

SAMPLE SUMMARY

Sample counts by matrix	10 Water	Type of documentation received	COC
Date documentation received	1/2/2024	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	24.7°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE259897 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

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
GW1	SE259897.001	LB302861	29 Jan 2024	01 Feb 2024	26 Feb 2024	02 Feb 2024	26 Feb 2024	05 Feb 2024
GW2	SE259897.002	LB302861	29 Jan 2024	01 Feb 2024	26 Feb 2024	02 Feb 2024	26 Feb 2024	05 Feb 2024
GW3	SE259897.003	LB302861	29 Jan 2024	01 Feb 2024	26 Feb 2024	02 Feb 2024	26 Feb 2024	05 Feb 2024
GW4	SE259897.004	LB302861	29 Jan 2024	01 Feb 2024	26 Feb 2024	02 Feb 2024	26 Feb 2024	05 Feb 2024
GW5	SE259897.005	LB302861	29 Jan 2024	01 Feb 2024	26 Feb 2024	02 Feb 2024	26 Feb 2024	05 Feb 2024
GW	SE259897.006	LB302861	29 Jan 2024	01 Feb 2024	26 Feb 2024	02 Feb 2024	26 Feb 2024	05 Feb 2024
GW7	SE259897.007	LB302861	29 Jan 2024	01 Feb 2024	26 Feb 2024	02 Feb 2024	26 Feb 2024	05 Feb 2024
GW8	SE259897.008	LB302861	29 Jan 2024	01 Feb 2024	26 Feb 2024	02 Feb 2024	26 Feb 2024	05 Feb 2024
TB	SE259897.009	LB302861	29 Jan 2024	01 Feb 2024	26 Feb 2024	02 Feb 2024	26 Feb 2024	05 Feb 2024
QC1	SE259897.010	LB302861	29 Jan 2024	01 Feb 2024	26 Feb 2024	02 Feb 2024	26 Feb 2024	05 Feb 2024

OC Pesticides in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE259897.001	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW2	SE259897.002	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW3	SE259897.003	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW4	SE259897.004	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW5	SE259897.005	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW	SE259897.006	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW7	SE259897.007	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW8	SE259897.008	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
TB	SE259897.009	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
QC1	SE259897.010	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024

OP Pesticides in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE259897.001	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW2	SE259897.002	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW3	SE259897.003	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW4	SE259897.004	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW5	SE259897.005	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW	SE259897.006	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW7	SE259897.007	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW8	SE259897.008	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
TB	SE259897.009	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
QC1	SE259897.010	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024

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
GW1	SE259897.001	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW2	SE259897.002	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW3	SE259897.003	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW4	SE259897.004	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW5	SE259897.005	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW	SE259897.006	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW7	SE259897.007	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW8	SE259897.008	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
TB	SE259897.009	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
QC1	SE259897.010	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024

PCBs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE259897.001	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW2	SE259897.002	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW3	SE259897.003	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW4	SE259897.004	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW5	SE259897.005	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW	SE259897.006	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW7	SE259897.007	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW8	SE259897.008	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
TB	SE259897.009	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
QC1	SE259897.010	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024

HOLDING TIME SUMMARY

SE259897 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

Speciated Phenols in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE259897.001	LB303179	29 Jan 2024	01 Feb 2024	19 Feb 2024	06 Feb 2024	17 Mar 2024	08 Feb 2024
GW2	SE259897.002	LB303179	29 Jan 2024	01 Feb 2024	19 Feb 2024	06 Feb 2024	17 Mar 2024	08 Feb 2024
GW3	SE259897.003	LB303179	29 Jan 2024	01 Feb 2024	19 Feb 2024	06 Feb 2024	17 Mar 2024	08 Feb 2024
GW4	SE259897.004	LB303179	29 Jan 2024	01 Feb 2024	19 Feb 2024	06 Feb 2024	17 Mar 2024	08 Feb 2024
GW5	SE259897.005	LB303179	29 Jan 2024	01 Feb 2024	19 Feb 2024	06 Feb 2024	17 Mar 2024	08 Feb 2024
GW	SE259897.006	LB303179	29 Jan 2024	01 Feb 2024	19 Feb 2024	06 Feb 2024	17 Mar 2024	08 Feb 2024
GW7	SE259897.007	LB303179	29 Jan 2024	01 Feb 2024	19 Feb 2024	06 Feb 2024	17 Mar 2024	08 Feb 2024
GW8	SE259897.008	LB303179	29 Jan 2024	01 Feb 2024	19 Feb 2024	06 Feb 2024	17 Mar 2024	08 Feb 2024
TB	SE259897.009	LB303179	29 Jan 2024	01 Feb 2024	19 Feb 2024	06 Feb 2024	17 Mar 2024	08 Feb 2024
QC1	SE259897.010	LB303179	29 Jan 2024	01 Feb 2024	19 Feb 2024	06 Feb 2024	17 Mar 2024	08 Feb 2024

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
GW1	SE259897.001	LB302928	29 Jan 2024	01 Feb 2024	27 Jul 2024	02 Feb 2024	27 Jul 2024	02 Feb 2024
GW2	SE259897.002	LB302928	29 Jan 2024	01 Feb 2024	27 Jul 2024	02 Feb 2024	27 Jul 2024	02 Feb 2024
GW3	SE259897.003	LB302928	29 Jan 2024	01 Feb 2024	27 Jul 2024	02 Feb 2024	27 Jul 2024	02 Feb 2024
GW4	SE259897.004	LB302928	29 Jan 2024	01 Feb 2024	27 Jul 2024	02 Feb 2024	27 Jul 2024	02 Feb 2024
GW5	SE259897.005	LB302928	29 Jan 2024	01 Feb 2024	27 Jul 2024	02 Feb 2024	27 Jul 2024	02 Feb 2024
GW	SE259897.006	LB302928	29 Jan 2024	01 Feb 2024	27 Jul 2024	02 Feb 2024	27 Jul 2024	02 Feb 2024
GW7	SE259897.007	LB302928	29 Jan 2024	01 Feb 2024	27 Jul 2024	02 Feb 2024	27 Jul 2024	02 Feb 2024
GW8	SE259897.008	LB302928	29 Jan 2024	01 Feb 2024	27 Jul 2024	02 Feb 2024	27 Jul 2024	02 Feb 2024
TB	SE259897.009	LB302928	29 Jan 2024	01 Feb 2024	27 Jul 2024	02 Feb 2024	27 Jul 2024	02 Feb 2024
QC1	SE259897.010	LB302928	29 Jan 2024	01 Feb 2024	27 Jul 2024	02 Feb 2024	27 Jul 2024	02 Feb 2024

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
GW1	SE259897.001	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW2	SE259897.002	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW3	SE259897.003	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW4	SE259897.004	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW5	SE259897.005	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW	SE259897.006	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW7	SE259897.007	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
GW8	SE259897.008	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
TB	SE259897.009	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024
QC1	SE259897.010	LB303179	29 Jan 2024	01 Feb 2024	05 Feb 2024	06 Feb 2024†	17 Mar 2024	08 Feb 2024

VOCs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE259897.001	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW2	SE259897.002	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW3	SE259897.003	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW4	SE259897.004	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW5	SE259897.005	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW	SE259897.006	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW7	SE259897.007	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW8	SE259897.008	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
TB	SE259897.009	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
QC1	SE259897.010	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024

Volatile Petroleum Hydrocarbons in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW1	SE259897.001	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW2	SE259897.002	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW3	SE259897.003	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW4	SE259897.004	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW5	SE259897.005	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW	SE259897.006	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW7	SE259897.007	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
GW8	SE259897.008	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
TB	SE259897.009	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024
QC1	SE259897.010	LB303228	29 Jan 2024	01 Feb 2024	12 Feb 2024	06 Feb 2024	12 Feb 2024	08 Feb 2024

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	GW1	SE259897.001	%	40 - 130%	31 ④
	GW2	SE259897.002	%	40 - 130%	50
	GW3	SE259897.003	%	40 - 130%	57
	GW4	SE259897.004	%	40 - 130%	50
	GW5	SE259897.005	%	40 - 130%	72
	GW	SE259897.006	%	40 - 130%	54
	GW7	SE259897.007	%	40 - 130%	69
	GW8	SE259897.008	%	40 - 130%	62
	TB	SE259897.009	%	40 - 130%	59
	QC1	SE259897.010	%	40 - 130%	68

OP Pesticides in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	GW1	SE259897.001	%	40 - 130%	46
	GW2	SE259897.002	%	40 - 130%	68
	GW3	SE259897.003	%	40 - 130%	80
	GW4	SE259897.004	%	40 - 130%	78
	GW5	SE259897.005	%	40 - 130%	76
	GW	SE259897.006	%	40 - 130%	86
	GW7	SE259897.007	%	40 - 130%	76
	GW8	SE259897.008	%	40 - 130%	92
	TB	SE259897.009	%	40 - 130%	68
	QC1	SE259897.010	%	40 - 130%	74
d14-p-terphenyl (Surrogate)	GW1	SE259897.001	%	40 - 130%	54
	GW2	SE259897.002	%	40 - 130%	74
	GW3	SE259897.003	%	40 - 130%	88
	GW4	SE259897.004	%	40 - 130%	82
	GW5	SE259897.005	%	40 - 130%	82
	GW	SE259897.006	%	40 - 130%	90
	GW7	SE259897.007	%	40 - 130%	86
	GW8	SE259897.008	%	40 - 130%	88
	TB	SE259897.009	%	40 - 130%	72
	QC1	SE259897.010	%	40 - 130%	86

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	GW1	SE259897.001	%	40 - 130%	46
	GW2	SE259897.002	%	40 - 130%	68
	GW3	SE259897.003	%	40 - 130%	80
	GW4	SE259897.004	%	40 - 130%	78
	GW5	SE259897.005	%	40 - 130%	76
	GW	SE259897.006	%	40 - 130%	86
	GW7	SE259897.007	%	40 - 130%	76
	GW8	SE259897.008	%	40 - 130%	92
	TB	SE259897.009	%	40 - 130%	68
	QC1	SE259897.010	%	40 - 130%	74
d14-p-terphenyl (Surrogate)	GW1	SE259897.001	%	40 - 130%	54
	GW2	SE259897.002	%	40 - 130%	74
	GW3	SE259897.003	%	40 - 130%	88
	GW4	SE259897.004	%	40 - 130%	82
	GW5	SE259897.005	%	40 - 130%	82
	GW	SE259897.006	%	40 - 130%	90
	GW7	SE259897.007	%	40 - 130%	86
	GW8	SE259897.008	%	40 - 130%	88
	TB	SE259897.009	%	40 - 130%	72
	QC1	SE259897.010	%	40 - 130%	86
d5-nitrobenzene (Surrogate)	GW1	SE259897.001	%	40 - 130%	44
	GW2	SE259897.002	%	40 - 130%	62
	GW3	SE259897.003	%	40 - 130%	78
	GW4	SE259897.004	%	40 - 130%	78
	GW5	SE259897.005	%	40 - 130%	72
	GW	SE259897.006	%	40 - 130%	82

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-nitrobenzene (Surrogate)	GW7	SE259897.007	%	40 - 130%	68
	GW8	SE259897.008	%	40 - 130%	88
	TB	SE259897.009	%	40 - 130%	66
	QC1	SE259897.010	%	40 - 130%	70

PCBs in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	GW1	SE259897.001	%	40 - 130%	31 ④
	GW2	SE259897.002	%	40 - 130%	50
	GW3	SE259897.003	%	40 - 130%	57
	GW4	SE259897.004	%	40 - 130%	50
	GW5	SE259897.005	%	40 - 130%	72
	GW	SE259897.006	%	40 - 130%	53
	GW7	SE259897.007	%	40 - 130%	68
	GW8	SE259897.008	%	40 - 130%	63
	TB	SE259897.009	%	40 - 130%	58
	QC1	SE259897.010	%	40 - 130%	67

Speciated Phenols in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2,4,6-Tribromophenol (Surrogate)	GW1	SE259897.001	%	40 - 130%	43
	GW2	SE259897.002	%	40 - 130%	73
	GW3	SE259897.003	%	40 - 130%	83
	GW4	SE259897.004	%	40 - 130%	81
	GW5	SE259897.005	%	40 - 130%	82
	GW	SE259897.006	%	40 - 130%	86
	GW7	SE259897.007	%	40 - 130%	81
	GW8	SE259897.008	%	40 - 130%	101
	TB	SE259897.009	%	40 - 130%	68
	QC1	SE259897.010	%	40 - 130%	90
d5-phenol (Surrogate)	GW1	SE259897.001	%	20 - 90%	44
	GW2	SE259897.002	%	20 - 90%	58
	GW3	SE259897.003	%	20 - 90%	57
	GW4	SE259897.004	%	20 - 90%	61
	GW5	SE259897.005	%	20 - 90%	62
	GW	SE259897.006	%	20 - 90%	65
	GW7	SE259897.007	%	20 - 90%	58
	GW8	SE259897.008	%	20 - 90%	73
	TB	SE259897.009	%	20 - 90%	51
	QC1	SE259897.010	%	20 - 90%	69

VOCs in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	GW1	SE259897.001	%	40 - 130%	85
	GW2	SE259897.002	%	40 - 130%	85
	GW3	SE259897.003	%	40 - 130%	83
	GW4	SE259897.004	%	40 - 130%	85
	GW5	SE259897.005	%	40 - 130%	84
	GW	SE259897.006	%	40 - 130%	85
	GW7	SE259897.007	%	40 - 130%	87
	GW8	SE259897.008	%	40 - 130%	85
	TB	SE259897.009	%	40 - 130%	86
	QC1	SE259897.010	%	40 - 130%	84
d4-1,2-dichloroethane (Surrogate)	GW1	SE259897.001	%	40 - 130%	119
	GW2	SE259897.002	%	40 - 130%	121
	GW3	SE259897.003	%	40 - 130%	120
	GW4	SE259897.004	%	40 - 130%	120
	GW5	SE259897.005	%	40 - 130%	120
	GW	SE259897.006	%	40 - 130%	121
	GW7	SE259897.007	%	40 - 130%	121
	GW8	SE259897.008	%	40 - 130%	124
	TB	SE259897.009	%	40 - 130%	121

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOCs in Water (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	QC1	SE259897.010	%	40 - 130%	120
d8-toluene (Surrogate)	GW1	SE259897.001	%	40 - 130%	112
	GW2	SE259897.002	%	40 - 130%	110
	GW3	SE259897.003	%	40 - 130%	110
	GW4	SE259897.004	%	40 - 130%	108
	GW5	SE259897.005	%	40 - 130%	107
	GW	SE259897.006	%	40 - 130%	111
	GW7	SE259897.007	%	40 - 130%	111
	GW8	SE259897.008	%	40 - 130%	113
	TB	SE259897.009	%	40 - 130%	112
	QC1	SE259897.010	%	40 - 130%	111

Volatile Petroleum Hydrocarbons in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	GW1	SE259897.001	%	40 - 130%	85
	GW2	SE259897.002	%	40 - 130%	85
	GW3	SE259897.003	%	40 - 130%	83
	GW4	SE259897.004	%	40 - 130%	85
	GW5	SE259897.005	%	40 - 130%	84
	GW	SE259897.006	%	40 - 130%	85
	GW7	SE259897.007	%	40 - 130%	87
	GW8	SE259897.008	%	40 - 130%	85
	TB	SE259897.009	%	40 - 130%	86
	QC1	SE259897.010	%	40 - 130%	84
d4-1,2-dichloroethane (Surrogate)	GW1	SE259897.001	%	60 - 130%	119
	GW2	SE259897.002	%	60 - 130%	121
	GW3	SE259897.003	%	60 - 130%	120
	GW4	SE259897.004	%	60 - 130%	120
	GW5	SE259897.005	%	60 - 130%	120
	GW	SE259897.006	%	60 - 130%	121
	GW7	SE259897.007	%	60 - 130%	121
	GW8	SE259897.008	%	60 - 130%	124
	TB	SE259897.009	%	60 - 130%	121
	QC1	SE259897.010	%	60 - 130%	120
d8-toluene (Surrogate)	GW1	SE259897.001	%	40 - 130%	112
	GW2	SE259897.002	%	40 - 130%	110
	GW3	SE259897.003	%	40 - 130%	110
	GW4	SE259897.004	%	40 - 130%	108
	GW5	SE259897.005	%	40 - 130%	107
	GW	SE259897.006	%	40 - 130%	111
	GW7	SE259897.007	%	40 - 130%	111
	GW8	SE259897.008	%	40 - 130%	113
	TB	SE259897.009	%	40 - 130%	112
	QC1	SE259897.010	%	40 - 130%	111

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
LB302861.001	Mercury	mg/L	0.0001	<0.0001

OC Pesticides in Water

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

Sample Number		Parameter	Units	LOR	Result
LB303179.001		Alpha BHC	µg/L	0.1	<0.1
		Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
		Beta BHC	µg/L	0.1	<0.1
		Lindane (gamma BHC)	µg/L	0.1	<0.1
		Delta BHC	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Aldrin	µg/L	0.1	<0.1
		Isodrin	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Gamma Chlordane	µg/L	0.1	<0.1
		Alpha Chlordane	µg/L	0.1	<0.1
		Alpha Endosulfan	µg/L	0.1	<0.1
		p,p'-DDE	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Beta Endosulfan	µg/L	0.1	<0.1
		p,p'-DDD	µg/L	0.1	<0.1
		Endrin aldehyde	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		p,p'-DDT	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	67

OP Pesticides in Water

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

Sample Number		Parameter	Units	LOR	Result
LB303179.001		Azinphos-methyl	µg/L	0.2	<0.2
		Bromophos Ethyl	µg/L	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Dichlorvos	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Fenitrothion	µg/L	0.2	<0.2
		Malathion	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5
		Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	78
		d14-p-terphenyl (Surrogate)	%	-	80

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result
LB303179.001	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

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 Water (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB303179.001		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)	%	-	68
		2-fluorobiphenyl (Surrogate)	%	-	78
		d14-p-terphenyl (Surrogate)	%	-	80

PCBs in Water

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

Sample Number	Parameter	Units	LOR	Result
LB303179.001	Arochlor 1016	µg/L	1	<1
	Arochlor 1221	µg/L	1	<1
	Arochlor 1232	µg/L	1	<1
	Arochlor 1242	µg/L	1	<1
	Arochlor 1248	µg/L	1	<1
	Arochlor 1254	µg/L	1	<1
	Arochlor 1260	µg/L	1	<1
	Arochlor 1262	µg/L	1	<1
	Arochlor 1268	µg/L	1	<1

Speciated Phenols in Water

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

Sample Number		Parameter	Units	LOR	Result
LB303179.001		Phenol	µg/L	0.5	<0.5
		2-methyl phenol (o-cresol)	µg/L	0.5	<0.5
		3/4-methyl phenol (m/p-cresol)	µg/L	1	<1
		2-chlorophenol	µg/L	0.5	<0.5
		2,4-dimethylphenol	µg/L	0.5	<0.5
		2,6-dichlorophenol	µg/L	0.5	<0.5
		2,4-dichlorophenol	µg/L	0.5	<0.5
		4-chloro-3-methylphenol	µg/L	2	<2
		2,4,6-trichlorophenol	µg/L	0.5	<0.5
		2-nitrophenol	µg/L	0.5	<0.5
		4-nitrophenol	µg/L	1	<1
		2,4,5-trichlorophenol	µg/L	0.5	<0.5
		2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1
		Pentachlorophenol	µg/L	0.5	<0.5
		2,4-dinitrophenol	µg/L	2	<2
	Surrogates	2,4,6-Tribromophenol (Surrogate)	%	-	109
		d5-phenol (Surrogate)	%	-	124

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB302928.001	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
LB303179.001	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
LB303228.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOCs in Water (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB303228.001	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	118
		d8-toluene (Surrogate)	%	-	108
		Bromofluorobenzene (Surrogate)	%	-	82

Volatile Petroleum Hydrocarbons in Water

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

Sample Number		Parameter	Units	LOR	Result
LB303228.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	118
		d8-toluene (Surrogate)	%	-	108
		Bromofluorobenzene (Surrogate)	%	-	82

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259903.005	LB302861.024	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	40

OC Pesticides in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259897.010	LB303179.022		Alpha BHC	µg/L	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	200	0
			Beta BHC	µg/L	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	200	0
			Delta BHC	µg/L	0.1	<0.1	<0.1	200	0
			Heptachlor	µg/L	0.1	<0.1	<0.1	200	0
			Aldrin	µg/L	0.1	<0.1	<0.1	200	0
			Isodrin	µg/L	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	µg/L	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	µg/L	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	200	0
			o,p'-DDE	µg/L	0.1	<0.1	<0.1	200	0
			p,p'-DDE	µg/L	0.1	<0.1	<0.1	200	0
			Dieldrin	µg/L	0.1	<0.1	<0.1	200	0
			Endrin	µg/L	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	µg/L	0.1	<0.1	<0.1	200	0
			o,p'-DDD	µg/L	0.1	<0.1	<0.1	200	0
			p,p'-DDD	µg/L	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	µg/L	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	200	0
			o,p'-DDT	µg/L	0.1	<0.1	<0.1	200	0
			p,p'-DDT	µg/L	0.1	<0.1	<0.1	200	0
			Endrin ketone	µg/L	0.1	<0.1	<0.1	200	0
			Methoxychlor	µg/L	0.1	<0.1	<0.1	200	0
			Mirex	µg/L	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	µg/L	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.10	0.08	30	23

OP Pesticides in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259897.010	LB303179.022		Azinphos-methyl	µg/L	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	200	0
			Dichlorvos	µg/L	0.5	<0.5	<0.5	200	0
			Dimethoate	µg/L	0.5	<0.5	<0.5	200	0
			Ethion	µg/L	0.2	<0.2	<0.2	200	0
			Fenitrothion	µg/L	0.2	<0.2	<0.2	200	0
			Malathion	µg/L	0.2	<0.2	<0.2	200	0
			Methidathion	µg/L	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.4	30	13
			d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	30	5

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259897.010	LB303179.022	Naphthalene	µg/L	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
		Acenaphthylene	µg/L	0.1	<0.1	<0.1	200	0
		Acenaphthene	µg/L	0.1	<0.1	<0.1	200	0
		Fluorene	µg/L	0.1	<0.1	<0.1	200	0
		Phenanthrene	µg/L	0.1	<0.1	<0.1	200	0
		Anthracene	µg/L	0.1	<0.1	<0.1	200	0
		Fluoranthene	µg/L	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259897.010	LB303179.022		Pyrene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	200	0
			Chrysene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.4	0.4	30	8
			2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.4	30	13
			d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	30	5

PCBs in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259897.010	LB303179.022		Arochlor 1016	µg/L	1	<1	<1	200	0
			Arochlor 1221	µg/L	1	<1	<1	200	0
			Arochlor 1232	µg/L	1	<1	<1	200	0
			Arochlor 1242	µg/L	1	<1	<1	200	0
			Arochlor 1248	µg/L	1	<1	<1	200	0
			Arochlor 1254	µg/L	1	<1	<1	200	0
			Arochlor 1260	µg/L	1	<1	<1	200	0
			Arochlor 1262	µg/L	1	<1	<1	200	0
			Arochlor 1268	µg/L	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	µg/L	-	0.1	0.1	30	24

Speciated Phenols in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259897.010	LB303179.022		Phenol	µg/L	0.5	<0.5	<0.5	200	0
			2-methyl phenol (o-cresol)	µg/L	0.5	<0.5	<0.5	200	0
			3/4-methyl phenol (m/p-cresol)	µg/L	1	<1	<1	200	0
			Total Cresol	µg/L	1.5	<1.5	<1.5	200	0
			2-chlorophenol	µg/L	0.5	<0.5	<0.5	200	0
			2,4-dimethylphenol	µg/L	0.5	<0.5	<0.5	200	0
			2,6-dichlorophenol	µg/L	0.5	<0.5	<0.5	200	0
			2,4-dichlorophenol	µg/L	0.5	<0.5	<0.5	200	0
			4-chloro-3-methylphenol	µg/L	2	<2	<2	200	0
			2,4,6-trichlorophenol	µg/L	0.5	<0.5	<0.5	200	0
			2-nitrophenol	µg/L	0.5	<0.5	<0.5	200	0
			4-nitrophenol	µg/L	1	<1	<1	200	0
			2,4,5-trichlorophenol	µg/L	0.5	<0.5	<0.5	200	0
			2,3,4,6/2,3,5,6-tetrachlorophenol	µg/L	1	<1	<1	200	0
			Pentachlorophenol	µg/L	0.5	<0.5	<0.5	200	0
			2,4-dinitrophenol	µg/L	2	<2	<2	200	0
		Surrogates	2,4,6-Tribromophenol (Surrogate)	µg/L	-	4.5	4.6	30	2
			d5-phenol (Surrogate)	µg/L	-	1.4	1.5	30	6

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259947.001	LB302928.016	Arsenic	µg/L	1	<1	<1	176	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	172	0
		Copper	µg/L	1	6	5	34	7
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	1	1	115	0
		Zinc	µg/L	5	12	8	66	41

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259897.010	LB303179.022	TRH C10-C14	µg/L	50	360	380	44	7
		TRH C15-C28	µg/L	200	<200	<200	160	0
		TRH C29-C36	µg/L	200	<200	<200	164	0
		TRH C37-C40	µg/L	200	<200	<200	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

TRH (Total Recoverable Hydrocarbons) in Water (continued)

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259897.010	LB303179.022		TRH C10-C40	µg/L	320	670	740	75	10
		TRH F Bands	TRH >C10-C16	µg/L	60	370	390	46	7
			TRH >C10-C16 - Naphthalene (F2)	µg/L	60	370	390	46	7
			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)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259769.012	LB303228.025	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	0.0	0.0	30	44 †
			d8-toluene (Surrogate)	µg/L	-	0.0	0.0	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	0.0	30	19
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
SE259897.003	LB303228.023	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	0.0	0.0	30	11
			d8-toluene (Surrogate)	µg/L	-	0.0	0.0	30	4
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	0.0	30	3
		Totals	Total BTEX	µg/L	3	<3	<3	200	0

Volatile Petroleum Hydrocarbons in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE259769.012	LB303228.025		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	44 †
			d8-toluene (Surrogate)	µg/L	-	0.0	0.0	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	0.0	30	19
		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
SE259897.003	LB303228.023		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	11
			d8-toluene (Surrogate)	µg/L	-	0.0	0.0	30	4
			Bromofluorobenzene (Surrogate)	µg/L	-	0.0	0.0	30	3
		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.

OC Pesticides in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB303179.002		Delta BHC	µg/L	0.1	0.1	0.2	60 - 140	75
		Heptachlor	µg/L	0.1	0.2	0.2	60 - 140	78
		Aldrin	µg/L	0.1	0.2	0.2	60 - 140	79
		Dieldrin	µg/L	0.1	0.1	0.2	60 - 140	75
		Endrin	µg/L	0.1	0.2	0.2	60 - 140	75
		p,p'-DDT	µg/L	0.1	0.1	0.2	60 - 140	61
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.12	0.15	40 - 130	77

OP Pesticides in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB303179.002		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	8.3	8	60 - 140	104
		Diazinon (Dimpylate)	µg/L	0.5	9.5	8	60 - 140	119
		Dichlorvos	µg/L	0.5	10	8	60 - 140	126
		Ethion	µg/L	0.2	8.8	8	60 - 140	109
	Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	84
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	82

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB303179.002		Naphthalene	µg/L	0.1	30	40	60 - 140	76
		Acenaphthylene	µg/L	0.1	37	40	60 - 140	93
		Acenaphthene	µg/L	0.1	34	40	60 - 140	86
		Phenanthrene	µg/L	0.1	33	40	60 - 140	82
		Anthracene	µg/L	0.1	33	40	60 - 140	83
		Fluoranthene	µg/L	0.1	33	40	60 - 140	82
		Pyrene	µg/L	0.1	34	40	60 - 140	84
		Benzo(a)pyrene	µg/L	0.1	41	40	60 - 140	104
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.4	0.5	40 - 130	72
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	84
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	82

PCBs in Water

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB303179.002	Arochlor 1260	µg/L	1	<1	0.4	60 - 140	81

Speciated Phenols in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB303179.002		Phenol	µg/L	0.5	45	40	60 - 140	113
		2,4-dichlorophenol	µg/L	0.5	49	40	60 - 140	121
		2,4,6-trichlorophenol	µg/L	0.5	55	40	60 - 140	137
		Pentachlorophenol	µg/L	0.5	35	40	60 - 140	87
	Surrogates	2,4,6-Tribromophenol (Surrogate)	µg/L	-	5.8	5	40 - 130	115
		d5-phenol (Surrogate)	µg/L	-	2.2	2	40 - 130	109

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB302928.002	Arsenic	µg/L	1	21	20	80 - 120	106
	Cadmium	µg/L	0.1	21	20	80 - 120	103
	Chromium	µg/L	1	20	20	80 - 120	99
	Copper	µg/L	1	19	20	80 - 120	95
	Lead	µg/L	1	19	20	80 - 120	97
	Nickel	µg/L	1	19	20	80 - 120	96
	Zinc	µg/L	5	19	20	80 - 120	97

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB303179.002		TRH C10-C14	µg/L	50	1100	1200	60 - 140	89
		TRH C15-C28	µg/L	200	1300	1200	60 - 140	106
		TRH C29-C36	µg/L	200	1400	1200	60 - 140	114
	TRH F Bands	TRH >C10-C16	µg/L	60	1200	1200	60 - 140	98
		TRH >C16-C34 (F3)	µg/L	500	1300	1200	60 - 140	107
		TRH >C34-C40 (F4)	µg/L	500	760	600	60 - 140	126

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.

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB303228.002	Monocyclic	Benzene	µg/L	0.5	48	45.45	60 - 140	105
	Aromatic	Toluene	µg/L	0.5	48	45.45	60 - 140	105
		Ethylbenzene	µg/L	0.5	47	45.45	60 - 140	103
		m/p-xylene	µg/L	1	94	90.9	60 - 140	103
		o-xylene	µg/L	0.5	47	45.45	60 - 140	104

Volatile Petroleum Hydrocarbons in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB303228.002		TRH C6-C10	µg/L	50	800	946.63	60 - 140	85
		TRH C6-C9	µg/L	40	690	818.71	60 - 140	84
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	520	639.67	60 - 140	81

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259890.001	LB302861.004	Mercury	mg/L	0.0001	0.0016	<0.00005	0.008	78

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE259897.001	LB302928.004	Arsenic	µg/L	1	22	<1	20	109
		Cadmium	µg/L	0.1	20	<0.1	20	101
		Chromium	µg/L	1	19	<1	20	97
		Copper	µg/L	1	19	<1	20	91
		Lead	µg/L	1	19	<1	20	98
		Nickel	µg/L	1	28	9	20	92
		Zinc	µg/L	5	61	44	20	86

VOCs in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE259897.001	LB303228.024	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	45.45	100
			Toluene	µg/L	0.5	<0.5	45.45	105
			Ethylbenzene	µg/L	0.5	<0.5	45.45	108
			m/p-xylene	µg/L	1	<1	90.9	108
			o-xylene	µg/L	0.5	<0.5	45.45	107
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/L	-	0.0	-	82
			d8-toluene (Surrogate)	mg/L	-	0.0	-	84
			Bromofluorobenzene (Surrogate)	mg/L	-	0.0	-	103
		Totals	Total BTEX	µg/L	3	<3	-	-

Volatile Petroleum Hydrocarbons in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE259897.001	LB303228.024		TRH C6-C10	µg/L	50	<50	946.63	80
			TRH C6-C9	µg/L	40	<40	818.71	87
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/L	-	0.0	-	82
			d8-toluene (Surrogate)	mg/L	-	0.0	-	84
			Bromofluorobenzene (Surrogate)	mg/L	-	0.0	-	103
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	-	-
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	639.67	73

MATRIX SPIKE DUPLICATES

SE259897 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.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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This test report shall not be reproduced, except in full.

source: Sydney_20240201200657 49.pdf page: 1 SGS Ref: SE259897_COC

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Ltd	Project Name/No:	P23158
Address:	Unit 13, 71 Leichhardt Street	Purchase Order No:	
	Kingston, ACT, 2604	Results Required By:	Standard TAT
		Telephone:	0411543142
Contact Name:	Samantha Walsh	Facsimile:	
		Email Results:	samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL		NO OF CONTAINERS	CL15, TRH, BTEX, PAH, OCP,OPP,PCB, Phenols, 8 Metals	pH, CEC, % Clay	HOLD		Combination 3										
GW1	29/01/2024	1	X			4	X														
GW2	29/01/2024	2	X			4	X														
GW3	29/01/2024	3	X			4	X														
GW4	29/01/2024	4	X			4	X														
GW5	29/01/2024	5	X			4	X														
GW6	29/01/2024	6	X			4	X														
GW7	29/01/2024	7	X			4	X														
GW8	29/01/2024	8	X			4	X														
TB	29/01/2024	9	X			4	X														
QC1	29/01/2024	10	X			4	X														
QC2	29/01/2024		X			4					X										

SGS EHS Sydney COC
SE259897

Please forward to Envirolab Sydney

Relinquished By: S.Walsh	Date/Time: 30/1/24	Received By: G.T	Date/Time 01/02/24
Relinquished By:	Date/Time:	Received By:	Date/Time 10:50
Samples Intact: (Yes) No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

SAMPLE RECEIPT ADVICE

SE259897

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158**
Order Number	**P23158**
Samples	10

LABORATORY DETAILS

Manager	Huong Crawford
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 1/2/2024
Report Due	Thu 8/2/2024
SGS Reference	**SE259897**

SUBMISSION DETAILS

This is to confirm that 10 samples were received on Thursday 1/2/2024. Results are expected to be ready by COB Thursday 8/2/2024. Please quote SGS reference SE259897 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	10 Water	Type of documentation received	COC
Date documentation received	1/2/2024	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	24.7°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

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SAMPLE RECEIPT ADVICE

SE259897

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Water	OP Pesticides in Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	PCBs in Water	Speciated Phenols in Water	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
001	GW1	30	13	22	11	18	9	11	7
002	GW2	30	13	22	11	18	9	11	7
003	GW3	30	13	22	11	18	9	11	7
004	GW4	30	13	22	11	18	9	11	7
005	GW5	30	13	22	11	18	9	11	7
006	GW	30	13	22	11	18	9	11	7
007	GW7	30	13	22	11	18	9	11	7
008	GW8	30	13	22	11	18	9	11	7
009	TB	30	13	22	11	18	9	11	7
010	QC1	30	13	22	11	18	9	11	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

SE259897

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Trace Metals (Dissolved) in Water by ICPMS
001	GW1	1	7
002	GW2	1	7
003	GW3	1	7
004	GW4	1	7
005	GW5	1	7
006	GW	1	7
007	GW7	1	7
008	GW8	1	7
009	TB	1	7
010	QC1	1	7

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158 - Additional**
Order Number	**P23158**
Samples	10

LABORATORY DETAILS

Manager	Huong Crawford
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	**SE259897A R0**
Date Received	14/2/2024
Date Reported	21/2/2024

COMMENTS

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

SIGNATORIES

Ly Kim HA

Organic Section Head

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water [AN403] Tested: 19/2/2024

PARAMETER	UOM	LOR	GW2 WATER - 29/1/2024 SE259897A.002	GW7 WATER - 29/1/2024 SE259897A.007
TRH C10-C14-Silica	µg/L	50	<50	<50
TRH C15-C28-Silica	µg/L	200	<200	<200
TRH C29-C36-Silica	µg/L	200	<200	<200
TRH C37-C40-Silica	µg/L	200	<200	<200
TRH >C10-C16-Silica	µg/L	60	<60	<60
TRH >C16-C34-Silica	µg/L	500	<500	<500
TRH >C34-C40-Silica	µg/L	500	<500	<500
TRH Sum C10-C36-Silica	µg/L	225	<230↑	<230↑
TRH Sum C10-C40-Silica	µg/L	320	<320	<320

METHOD	METHODOLOGY SUMMARY
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.
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 (TRHisilica) 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.

FOOTNOTES

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

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STATEMENT OF QA/QC PERFORMANCE

SE259897A R0

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158 - Additional**
Order Number	**P23158**
Samples	10

LABORATORY DETAILS

Manager	Huong Crawford
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	**SE259897A R0**
Date Received	14 Feb 2024
Date Reported	21 Feb 2024

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water	2 items

SAMPLE SUMMARY

Sample counts by matrix	2 Water	Type of documentation received	Email
Date documentation received	14/2/2024@12:35pr	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	24.7°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE259897A 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

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water — **Method: ME-(AU)-[ENV]AN403**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
GW2	SE259897A.002	LB304332	29 Jan 2024	14 Feb 2024	05 Feb 2024	19 Feb 2024†	30 Mar 2024	21 Feb 2024
GW7	SE259897A.007	LB304332	29 Jan 2024	14 Feb 2024	05 Feb 2024	19 Feb 2024†	30 Mar 2024	21 Feb 2024

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

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.

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water — **Method: ME-(AU)-[ENV]AN403**

Sample Number	Parameter	Units	LOR	Result
LB304332.001	TRH C10-C14-Silica	µg/L	50	<50
	TRH C15-C28-Silica	µg/L	200	<200
	TRH C29-C36-Silica	µg/L	200	<200
	TRH C37-C40-Silica	µg/L	200	<200

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Original	Duplicate	Parameter	Units	LOR

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

TRH Silica Gel (Total Recoverable Hydrocarbons - Silica Gel) in Water — **Method: ME-(AU)-[ENV]AN403**

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB304332.002	TRH C10-C14-Silica	µg/L	50	1100	1200	60 - 140	89
	TRH C15-C28-Silica	µg/L	200	1300	1200	60 - 140	110
	TRH C29-C36-Silica	µg/L	200	1400	1200	60 - 140	119
	TRH >C10-C16-Silica	µg/L	60	1200	1200	60 - 140	101
	TRH >C16-C34-Silica	µg/L	500	1300	1200	60 - 140	112
	TRH >C34-C40-Silica	µg/L	500	790	600	60 - 140	132

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

QC Sample	Sample Number	Parameter	Units	LOR

MATRIX SPIKE DUPLICATES

SE259897A R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.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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This test report shall not be reproduced, except in full.

source: SE_Autoscan_20240215114310S1.pdf page: 1 SGS Ref: SE259897A_COC

Yin, Emily (Sydney)

From: Samantha Walsh <Samantha@lanterra.com.au>
Sent: Wednesday, 14 February 2024 12:35 PM
To: AU.SampleReceipt.Sydney, AU (Sydney); AU.Environmental.Sydney, AU (Sydney)
Subject: [EXTERNAL] Silica Gel Cleanup - SE258534, SE258536, SE259897

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hello

Can I please get silica gel cleanups on the following samples:

SE258534

- BH11
- BH14
- BH19
- BH20
- BH21
- BH29

SE258536

- BH41
- BH48
- BH55
- BH58
- BH63
- BH71
- BH76

SE259897

- GW2
- GW7

On standard turnaround time please.

Thanks
Sam

Kind Regards,
Samantha Walsh | Senior Environmental Scientist | BAppSc | GradCertSc (Hydrogeology)
Lanterra Consulting Pty Ltd

SAMPLE RECEIPT ADVICE

SE259897A

CLIENT DETAILS

Contact	Samantha Walsh
Client	LANTERRA CONSULTING PTY LTD
Address	UNIT 13 71 LEICHHARDT STREET KINGSTON ACT 2604
Telephone	(Not specified)
Facsimile	(Not specified)
Email	samantha@lanterra.com.au
Project	**P23158 - Additional**
Order Number	**P23158**
Samples	10

LABORATORY DETAILS

Manager	Huong Crawford
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	Wed 14/2/2024
Report Due	Wed 21/2/2024
SGS Reference	**SE259897A**

SUBMISSION DETAILS

This is to confirm that 10 samples were received on Wednesday 14/2/2024. Results are expected to be ready by COB Wednesday 21/2/2024. Please quote SGS reference SE259897A when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	2 Water	Type of documentation received	Email
Date documentation received	14/2/2024@12:35pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	24.7°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

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.

SAMPLE RECEIPT ADVICE

SE259897A

CLIENT DETAILS

Client LANTERRA CONSULTING PTY LTD

Project P23158 - Additional

SUMMARY OF ANALYSIS

No.	Sample ID	TRH Silica Gel (Total Recoverable
002	GW2	9
007	GW7	9

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 .

CHAIN OF CUSTODY & ANALYSIS REQUEST

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	Lanterra Consulting Pty Limited	Project Name/No:	P23158
Address:	Unit 13/ 71 Leichhardt Street, Kingston ACT 2604	Purchase Order No:	
		Results Required By:	Standard TAT
		Telephone:	
Contact Name:	Leonardo Baeza, Samantha Walsh	Facsimile:	
		Email Results:	leonardo@lanterra.com.au; Samantha@lanterra.com.au

Client Sample ID	Date Sampled	Lab Sample ID	LIQUID	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL15	Asbestos	HOLD	CL10	Combination 3	Asbestos ID building materials
LC37 0.5-0.6	19/01/2024			X		2			X			
LC37 1.0-1.1	19/01/2024			X		2			X			
QC1	18/01/2024			X		1				X		
QC2	18/01/2024			X		1					X	
QC3	19/01/2024			X		1				X		
QC4	19/01/2024			X		1					X	
ACM1	18/01/2024					1						X
ACM2	19/01/2024					1						X

ENVIROLAB

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

Job No: 34165
Date Received: 23/1/24
Time Received: 1520
Received By: DC
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/~~None~~

Please Forward to Envirolab

Please Forward to Envirolab

Relinquished By: L. Baeza	Date/Time: 22/01/2024	Received By:	Date/Time
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No: LANTE MPP 140
	Comments:		

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 342165

Client Details

Client	Lanterra Consulting Pty Ltd
Attention	Leonardo Baeza 2
Address	Unit 4 / 19 Trenerry St, WESTON, ACT, 2611

Sample Details

Your Reference	**P23158**
Number of Samples	2 Soil
Date samples received	23/01/2024
Date completed instructions received	23/01/2024

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	31/01/2024
Date of Issue	30/01/2024

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Results Approved By
Giovanni Agosti, Group Technical Manager
Tim Toll, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		342165-1	342165-2
Your Reference	UNITS	QC2	QC4
Date Sampled		18/01/2024	19/01/2024
Type of sample		Soil	Soil
Date extracted	-	24/01/2024	24/01/2024
Date analysed	-	29/01/2024	29/01/2024
TRH C_6 - C_9	mg/kg	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
Naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	86	90

svTRH (C10-C40) in Soil			
Our Reference	UNITS	342165-1	342165-2
Your Reference		QC2	QC4
Date Sampled		18/01/2024	19/01/2024
Type of sample		Soil	Soil
Date extracted	-	24/01/2024	24/01/2024
Date analysed	-	25/01/2024	25/01/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surrogate o-Terphenyl	%	85	91

PAHs in Soil			
Our Reference	UNITS	342165-1	342165-2
Your Reference		QC2	QC4
Date Sampled		18/01/2024	19/01/2024
Type of sample		Soil	Soil
Date extracted	-	24/01/2024	24/01/2024
Date analysed	-	29/01/2024	29/01/2024
Naphthalene	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	0.2
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	0.2
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	94	94

Acid Extractable metals in soil			
Our Reference		342165-1	342165-2
Your Reference	UNITS	QC2	QC4
Date Sampled		18/01/2024	19/01/2024
Type of sample		Soil	Soil
Date prepared	-	25/01/2024	25/01/2024
Date analysed	-	25/01/2024	25/01/2024
Arsenic	mg/kg	8	7
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	15	27
Copper	mg/kg	17	23
Lead	mg/kg	8	13
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	9	6
Zinc	mg/kg	21	36

Moisture			
Our Reference		342165-1	342165-2
Your Reference	UNITS	QC2	QC4
Date Sampled		18/01/2024	19/01/2024
Type of sample		Soil	Soil
Date prepared	-	24/01/2024	24/01/2024
Date analysed	-	25/01/2024	25/01/2024
Moisture	%	22	15

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date extracted	-			24/01/2024	1	24/01/2024	24/01/2024		24/01/2024	[NT]
Date analysed	-			29/01/2024	1	29/01/2024	29/01/2024		29/01/2024	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	96	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	96	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	92	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	96	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	99	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	97	[NT]
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	103	[NT]
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	90	1	86	88	2	95	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date extracted	-			24/01/2024	1	24/01/2024	24/01/2024		24/01/2024	[NT]
Date analysed	-			25/01/2024	1	25/01/2024	25/01/2024		25/01/2024	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	106	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	<100	<100	0	105	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	<100	<100	0	114	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	106	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	<100	<100	0	105	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	<100	<100	0	114	[NT]
Surrogate o-Terphenyl	%		Org-020	83	1	85	84	1	88	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date extracted	-			24/01/2024	1	24/01/2024	24/01/2024		24/01/2024	[NT]
Date analysed	-			29/01/2024	1	29/01/2024	29/01/2024		29/01/2024	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	126	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	126	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	130	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	132	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	132	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	132	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	116	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	122	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	108	1	94	95	1	104	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date prepared	-			25/01/2024	1	25/01/2024	25/01/2024		25/01/2024	[NT]
Date analysed	-			25/01/2024	1	25/01/2024	25/01/2024		25/01/2024	[NT]
Arsenic	mg/kg	4	Metals-020	<4	1	8	5	46	105	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	102	[NT]
Chromium	mg/kg	1	Metals-020	<1	1	15	11	31	105	[NT]
Copper	mg/kg	1	Metals-020	<1	1	17	15	12	102	[NT]
Lead	mg/kg	1	Metals-020	<1	1	8	10	22	108	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	128	[NT]
Nickel	mg/kg	1	Metals-020	<1	1	9	10	11	100	[NT]
Zinc	mg/kg	1	Metals-020	<1	1	21	24	13	100	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 340788

Client Details

Client	Lanterra Consulting Pty Ltd
Attention	Samantha Walsh
Address	Unit 4 / 19 Trenerry St, WESTON, ACT, 2611

Sample Details

Your Reference	**P23158**
Number of Samples	5 Soil, 2 Water
Date samples received	21/12/2023
Date completed instructions received	21/12/2023

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	05/01/2024
Date of Issue	05/01/2024

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Results Approved By
Dragana Tomas, Senior Chemist
Hannah Nguyen, Metals Supervisor
Liam Timmins, Organics Supervisor
Nancy Zhang, Laboratory Manager, Sydney
Tim Toll, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil				
Our Reference		340788-1	340788-2	340788-3
Your Reference	UNITS	QC2	QC4	QC6
Date Sampled		14/12/2023	14/12/2023	14/12/2023
Type of sample		Soil	Soil	Soil
Date extracted	-	22/12/2023	22/12/2023	22/12/2023
Date analysed	-	27/12/2023	27/12/2023	27/12/2023
TRH C_6 - C_9	mg/kg	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25
vTPH 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	%	110	94	113

svTRH (C10-C40) in Soil				
Our Reference		340788-1	340788-2	340788-3
Your Reference	UNITS	QC2	QC4	QC6
Date Sampled		14/12/2023	14/12/2023	14/12/2023
Type of sample		Soil	Soil	Soil
Date extracted	-	22/12/2023	22/12/2023	22/12/2023
Date analysed	-	22/12/2023	22/12/2023	22/12/2023
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	75

PAHs in Soil				
Our Reference		340788-1	340788-2	340788-3
Your Reference	UNITS	QC2	QC4	QC6
Date Sampled		14/12/2023	14/12/2023	14/12/2023
Type of sample		Soil	Soil	Soil
Date extracted	-	22/12/2023	22/12/2023	22/12/2023
Date analysed	-	27/12/2023	27/12/2023	27/12/2023
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	110	109	107

Acid Extractable metals in soil				
Our Reference		340788-1	340788-2	340788-3
Your Reference	UNITS	QC2	QC4	QC6
Date Sampled		14/12/2023	14/12/2023	14/12/2023
Type of sample		Soil	Soil	Soil
Date prepared	-	27/12/2023	27/12/2023	27/12/2023
Date analysed	-	02/01/2024	02/01/2024	02/01/2024
Arsenic	mg/kg	6	8	4
Cadmium	mg/kg	<0.4	<0.4	<0.4
Chromium	mg/kg	9	58	15
Copper	mg/kg	8	70	22
Lead	mg/kg	14	10	11
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	7	63	17
Zinc	mg/kg	26	140	45

Moisture				
Our Reference		340788-1	340788-2	340788-3
Your Reference	UNITS	QC2	QC4	QC6
Date Sampled		14/12/2023	14/12/2023	14/12/2023
Type of sample		Soil	Soil	Soil
Date prepared	-	22/12/2023	22/12/2023	22/12/2023
Date analysed	-	23/12/2023	23/12/2023	23/12/2023
Moisture	%	33	33	16

vTRH(C6-C10)/BTEXN in Water			
Our Reference	UNITS	340788-4	340788-5
Your Reference		QC2	QC4
Date Sampled		15/12/2023	15/12/2023
Type of sample		Water	Water
Date extracted	-	03/01/2024	03/01/2024
Date analysed	-	04/01/2024	04/01/2024
TRH C_6 - C_9	µg/L	<10	20
TRH C_6 - C_{10}	µg/L	<10	20
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10	<10
Benzene	µg/L	<1	<1
Toluene	µg/L	<1	15
Ethylbenzene	µg/L	<1	<1
m+p-xylene	µg/L	<2	<2
o-xylene	µg/L	<1	<1
Naphthalene	µg/L	<1	<1
Surrogate Dibromofluoromethane	%	101	99
Surrogate Toluene-d8	%	98	98
Surrogate 4-Bromofluorobenzene	%	101	100

svTRH (C10-C40) in Water			
Our Reference		340788-4	340788-5
Your Reference	UNITS	QC2	QC4
Date Sampled		15/12/2023	15/12/2023
Type of sample		Water	Water
Date extracted	-	02/01/2024	02/01/2024
Date analysed	-	02/01/2024	02/01/2024
TRH C_{10} - C_{14}	µg/L	<50	<50
TRH C_{15} - C_{28}	µg/L	<100	<100
TRH C_{29} - C_{36}	µg/L	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50
TRH >C_{10} - C_{16}	µg/L	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50	<50
TRH >C_{16} - C_{34}	µg/L	<100	<100
TRH >C_{34} - C_{40}	µg/L	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50
Surrogate o-Terphenyl	%	93	89

PAHs in Water			
Our Reference		340788-4	340788-5
Your Reference	UNITS	QC2	QC4
Date Sampled		15/12/2023	15/12/2023
Type of sample		Water	Water
Date extracted	-	02/01/2024	02/01/2024
Date analysed	-	05/01/2024	05/01/2024
Naphthalene	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(b,j+k)fluoranthene	µg/L	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	84	83

HM in water - total			
Our Reference	UNITS	340788-4	340788-5
Your Reference		QC2	QC4
Date Sampled		15/12/2023	15/12/2023
Type of sample		Water	Water
Date prepared	-	28/12/2023	28/12/2023
Date analysed	-	28/12/2023	28/12/2023
Arsenic-Total	µg/L	2	2
Cadmium-Total	µg/L	<0.1	<0.1
Chromium-Total	µg/L	<1	<1
Copper-Total	µg/L	2	3
Lead-Total	µg/L	<1	<1
Mercury-Total	µg/L	<0.05	<0.05
Nickel-Total	µg/L	3	3
Zinc-Total	µg/L	4	11

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Salt forms (e.g. FeO, PbO, ZnO) are determinined stoichiometrically from the base metal concentration.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			22/12/2023	[NT]	[NT]	[NT]	[NT]	22/12/2023	[NT]
Date analysed	-			27/12/2023	[NT]	[NT]	[NT]	[NT]	27/12/2023	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	111	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	111	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	116	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	109	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	111	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	92	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			22/12/2023	[NT]	[NT]	[NT]	[NT]	22/12/2023	[NT]
Date analysed	-			22/12/2023	[NT]	[NT]	[NT]	[NT]	22/12/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	107	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	97	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	107	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	97	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	75	[NT]	[NT]	[NT]	[NT]	82	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			22/12/2023	[NT]	[NT]	[NT]	[NT]	22/12/2023	[NT]
Date analysed	-			27/12/2023	[NT]	[NT]	[NT]	[NT]	27/12/2023	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	129	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	130	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	127	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	127	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	128	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	126	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	133	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	103	[NT]	[NT]	[NT]	[NT]	97	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date prepared	-			27/12/2023	[NT]	[NT]	[NT]	[NT]	27/12/2023	[NT]
Date analysed	-			02/01/2024	[NT]	[NT]	[NT]	[NT]	02/01/2024	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	106	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	99	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	122	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]

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	-			03/01/2024	[NT]	[NT]	[NT]	[NT]	03/01/2024	[NT]
Date analysed	-			04/01/2024	[NT]	[NT]	[NT]	[NT]	04/01/2024	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	102	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	104	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate Toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W5	[NT]
Date extracted	-			02/01/2024	[NT]	[NT]	[NT]	[NT]	02/01/2024	[NT]
Date analysed	-			02/01/2024	[NT]	[NT]	[NT]	[NT]	02/01/2024	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	74	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	81	[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]	74	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	81	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	83	[NT]	[NT]	[NT]	[NT]	89	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	[NT]
Date extracted	-			02/01/2024	[NT]	[NT]	[NT]	[NT]	02/01/2024	[NT]
Date analysed	-			05/01/2024	[NT]	[NT]	[NT]	[NT]	05/01/2024	[NT]
Naphthalene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	77	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	76	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	119	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	[NT]	[NT]	[NT]	[NT]	77	[NT]

QUALITY CONTROL: HM in water - total						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date prepared	-			28/12/2023	[NT]	[NT]	[NT]	[NT]	28/12/2023	[NT]
Date analysed	-			28/12/2023	[NT]	[NT]	[NT]	[NT]	28/12/2023	[NT]
Arsenic-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Cadmium-Total	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Chromium-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Copper-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	113	[NT]
Lead-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Mercury-Total	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	103	[NT]
Nickel-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Zinc-Total	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Appendix I

EXPERT TESTING SERVICES

Hire Contract

ABN: 74 619 717 350
9/171 Power Street
GLENDENNING NSW 2761
Phone: 02 9730 2019
Email: rentals@experttesting.com.au
Website: www.experttesting.com.au

Hire Contract No.: 12150

Hire Contract Date: 22/01/2024

Customer PO: P23158

To:
Lanterra Consulting (Samantha Walsh)
Unit 13, 71 Leichhardt Street
KINGSTON ACT 2604
Ph: 0411 543 142

Deliver To:
Samantha Walsh
88 Garside Road
Mollymook NSW 2539
Contact: Samantha Walsh
Ph: 0411 543 142

Date From: Monday, 29 January 2024 7:00 AM

Date To: Tuesday, 30 January 2024 7:00 AM

Staff Name: Milenko Sisic

Description	Qty/Items	Unit	Each(Ex)	Line Total
YSI Pro Quatro Temp/EC/pH/ORP/DO on 1m cable with Flow Cell	1	Day	$90.00	$90.00
Solinst 122 Interface Meter 30m	1	Day	$50.00	$50.00
Freight Charges - pick up	1	Day	$50.00	$50.00
Freight Charges - pick up	1	Day	$50.00	$50.00

Payment Terms:
30

Subtotal:	$240.00
Total GST:	$24.00
Total Amount:	**$264.00**
Amount Paid:	$0.00
Balance Due:	$264.00

Direct Deposit Details
Account Name: Expert Testing Services
BSB: 012215
Account: 306089394
Reference: 12150

We appreciate your business

I have read, understood and accept the EXPERT TESTING SERVICES terms and conditions.

NAME OF HIRER: .....

SIGNATURE OF HIRER: ..... DATE SIGNED:

Terms and Conditions

INTERPRETATION

1. In these Terms and Conditions, unless the context otherwise requires:

(a) ETS means Kumar International Pty Ltd trading as Expert Testing Services ABN 74 619 717 350 .

(b) Commencement Date means the date specified in the Hire Agreement/Contract as the commencement date;

(c) Customer means the party who is specified as the Customer in the Hire Agreement/Contract and includes the party's transferees, successors and permitted assigns. Where the Customer is more than one person or entity, the liability of each such person or entity in relation to the Order is joint and several;

(d) Delivery Fee means the amount (if any) specified in the Hire Agreement/Contract as the delivery or transport fee;

(e) Encumber means an encumbrance or security interest including but not limited to a mortgage, fixed charge, floating charge, pledge, lien, conditional sale agreement, hire or hire purchase agreement, option, restriction as to transfer, use or possession, easement or a subordination to a right of a person or an adverse or competing interest of another person or security interest (within the meaning of the Personal Property Securities Act 2009 (Cth));

(f) Equipment means the equipment and other property listed in the Hire Agreement/Contract together with associated property including but not limited to all associated documents, manuals, tools, maintenance records, spare parts, accessories, software, consumable items and attachments hired and includes any replacement equipment which may be provided by ETS to the Customer from time to time;

(g) GST has the meaning given to that term in the A New Tax System (Goods and Services Tax) 1999 (Cth);

(h) Hire Agreement/Contract means the Rental Schedule to which these Terms and Conditions are attached or these Terms and Conditions accompany;

(i) Order means an order for Equipment and/or a request for ETS to supply Equipment to the Customer or nominee of the Customer (including but not limited to a purchase order);

(j) Rental Period means the period of rental of the Equipment specified in the Hire Agreement/Contract, subject to any extension under clause 13 or otherwise in accordance with these Terms and Conditions;

(k) Rental Installment means each installment of the total rental payable as specified in the Hire Agreement/Contract; and

(l) Tax means any kind of tax (except GST), duty, impost, charge, withholding, rate, levy or other governmental imposition of whatever nature and by whatever authority imposed (including stamp duty), assessed or charged, together with any cost, charge, interest, penalty, fine, expense or other additional statutory charge incidental or related to the imposition, but excludes tax levied on the net income of ETS.

USAGE OF TERMS AND CONDITIONS

2. These Terms and Conditions are incorporated into any contract or arrangement between ETS and the Customer for the supply of the Equipment to the Customer. They shall apply to the exclusion of all terms and conditions conflicting with or purporting to modify them whether issued before or after the date these Terms and Conditions come into effect (including but not limited to any terms and conditions on any order form or request form produced by the Customer), except where otherwise agreed by and the Customer in a document signed by both parties.

3. ETS may at any time change these Terms and Conditions by publishing new terms and conditions, in which case the new terms and conditions will come into effect 14 days after they are published. The new terms and conditions will come into effect notwithstanding that the Customer does not receive notice of any change to these Terms and Conditions (including if the notice was accidentally omitted to be given).

ORDERS

4. Each Order constitutes an offer by the Customer to ETS and is subject to acceptance by ETS.

5. ETS may accept an Order by sending written notification to the Customer. Any Order accepted by ETS shall constitute a contract between the Customer and ETS.

6. The Customer shall not cancel an Order, or change the Commencement Date, without the written consent of ETS. In the event the Customer purports to cancel an Order, or change the Commencement Date, such attempt may, at ETS's election, be construed as a repudiation by the Customer of the contract between the parties, and the Customer shall pay to ETS all losses, damages, costs, interest, fees, charges (including handling charges) and expenses incurred or suffered by ETS and its suppliers (if any) as a result of the Customer's repudiation of the contract. The Customer shall have no recourse whatsoever against ETS as a result of any election made by ETS under this clause 6.

7. Without prejudice to ETS's rights under clause 6, in the event the Customer seeks to change the Commencement Date for any period longer than 14 days, and ETS agrees to accept the requested change in the Commencement Date, the Customer shall pay to ETS all losses, damages, costs, interest, fees, charges (including handling charges) and expenses incurred or suffered by ETS and its suppliers (if any) as a result of the delay.

8. An Order shall not be varied by the Customer unless the variation is in writing and accepted by ETS in writing.

RENTAL PERIOD

9. The period of rental of the Equipment will be the Rental Period, unless terminated earlier in accordance with these Terms and Conditions.

10. The Rental Period will commence on the earlier of the Commencement Date and the date on which the Customer takes delivery of the Equipment.

DELIVERY/COLLECTION OF THE EQUIPMENT

11. ETS will, if specified in the Hire Agreement/Contract, deliver the Equipment to the Customer on or by the Commencement Date. The Customer shall, if specified in the Hire Agreement/Contract or if the Hire Agreement/Contract does not specify that ETS will deliver the Equipment to the Customer, be responsible for collecting the Equipment from the address specified in the Hire Agreement/Contract on the Commencement Date.

12. On receipt of the Equipment, the Customer shall inspect the Equipment and must, within 24 hours of delivery, notify ETS of any alleged defect, shortage in quantity, damage or failure to comply with the Hire Agreement/Contract. If the Customer does not give such notice, the Equipment will be deemed to have been delivered and accepted by the Customer in good order, in the correct quantity and otherwise in accordance with the Hire Agreement/Contract.

13. The Customer acknowledges that the Commencement Date is an estimate only and should ETS be unable to deliver the Equipment to the Customer on the Commencement Date (or make it available for collection on the Commencement Date) ETS shall have no liability to the Customer in relation to any loss, damage or expense caused by ETS's failure to do so and:

(a) ETS shall have no liability whatsoever to the Customer in relation to any loss, damage or expense incurred or suffered by the Customer as a result of ETS' s failure to deliver the Equipment or make it available for collection by the Customer by the Commencement Date; and

(b) (at ETS's option) the Commencement Date shall be extended by any amount of time necessary for ETS to deliver the Equipment or make it available for collection by the Customer by the Commencement Date (and the Commencement Date shall be delayed accordingly); or

(c) (at ETS's option) ETS may cancel the agreement between ETS and the Customer for the rental of the Equipment and ETS will not be liable in any whatsoever to the Customer as a result of that cancellation (including without limitation being liable for any penalty, expense or claim by the Customer).

14. Where ETS engages an agent to deliver the Equipment, written confirmation from the agent that the Equipment has been delivered shall constitute proof that this has occurred.

PAYMENT

15. The Customer must pay all the Rental Installments to or at the direction of ETS during the Rental Period in accordance with these Terms and Conditions. Unless otherwise specified, all prices charged by ETS are inclusive of any GST.

16. Once paid, a Rental Installment is not refundable.

17. The first Rental Installment and the Delivery Fee is due when these Terms and Conditions (or the Hire Agreement/Contract) are signed by or on behalf of the Customer and given to ETS. All subsequent Rental Installments are payable in advance on each day specified in the Hire Agreement/Contract as a payment date.

18. If ETS requests the Customer to do so, the Customer must provide ETS with a direct debit authority or other automatic payment authority acceptable to ETS to facilitate the payment of amounts due by the Customer under these Terms and Conditions.

19. If the Customer fails to pay any amount to ETS when due under these Terms and Conditions, in addition to any other right ETS may have, ETS may demand and the Customer must pay on demand to ETS, interest on any amount due but unpaid at a rate 2% above the rate specified from time to time under the Penalty Interest Rates Act 1983. Interest will accrue daily from the date on which the amount became due for payment under these Terms and Conditions.

20. Unless otherwise specified in the Hire Agreement/Contract, the Rental Installments and Delivery Fee are exclusive of all Taxes. All Taxes payable in connection with the supply and rental of the Equipment by ETS to the Customer, or to ETS entering into these Terms and Conditions, must be paid by the Customer when requested to do so by ETS.

21. The Customer's obligation to pay Rental Installments and any other amount under these Terms and Conditions is absolute and unconditional, and such payments must be made without set-off, counterclaim or deduction. The Customer's obligation to make payments is not affected or reduced for any reason including without limitation by the Customer being unable to use the Equipment for any reason or the Equipment being damaged, lost, stolen, not in the possession of the Customer or not working at any time.

RETURN OF THE EQUIPMENT

22. On termination of these Terms and Conditions, at the end of the Rental Period or where under these Terms and Conditions ETS is entitled to recover, remove or repossess the Equipment, the Customer must (at ETS's election):

(a) make the Equipment available for collection by ETS or its agents at the location specified in the Hire Agreement/Contract; or

(b) return it to ETS's address as specified in the Hire Agreement/Contract.

23. The Customer must ensure that the Equipment is clean and in good condition and repair (fair wear and tear excepted) when it is made available for collection or returned to ETS.

OWNERSHIP OF THE EQUIPMENT

24. The Equipment remains the property of ETS at all times. The Customer only has the right to use the Equipment on the terms of these Terms and Conditions and must protect the interests of ETS at all times.

25. The Customer must not offer, sell, assign, sub- let, mortgage, pledge, Encumber or otherwise deal with the Equipment in any way which is inconsistent or would detract from ETS's ownership of the Equipment.

26. The Customer must ensure the Equipment is clearly identifiable as the property of ETS.

27. ETS may, without the Customer's consent, transfer or Encumber ETS's interest in the Equipment or in these Terms and Conditions.

USE AND CARE OF THE EQUIPMENT

28. The Customer must ensure that it, and anyone else who may use the Equipment, uses it:

(a) safely, and as per the manufacturer's instructions and instructions provided by ETS;

(b) lawfully in relation to all applicable, rules, regulations, law and by- laws; and

(c) responsibly and with all necessary care, skill and diligence.

29. Unless ETS agrees otherwise in writing, the Customer and its employees are the only persons entitled to use the Equipment.

NAME OF HIRER: .....

SIGNATURE OF HIRER: ..... DATE SIGNED:

30. The Customer must give ETS access, or otherwise ensure ETS has access, to the Equipment to view and/or inspect the Equipment during the Rental Period. Failure to provide ETS access to the Equipment entitles ETS to determine that the Equipment is lost or stolen and irrecoverable, or destroyed or damaged beyond repair, for the purposes of clauses 31 and 37.

31. The Customer must, at its cost, maintain the Equipment in good working order during the Rental Period (except for ordinary wear and tear) and ensure that the Equipment is maintained and serviced in accordance with the manufacturer's and ETS's specifications and recommendations. Without limitation, the Customer is responsible for ensuring the equipment is within its calibration period and is functioning and condition is in accordance with the manufacturer's recommendations. To ensure that the Customer will comply with this clause 31, the Customer must not permit any person to carry out any servicing of or repairs to the Equipment unless the person has been approved in writing by ETS.

32. The Customer must notify ETS as soon as it becomes aware of any defect with, or damage to, the Equipment, immediately cease to use the Equipment and not attempt to repair, or engage a third party to repair, the Equipment. If any defect or damage to the Equipment is caused by the Customer failing to use, maintain or service the Equipment in accordance with these Terms and Conditions, then the Customer is responsible for, and must reimburse ETS for, the cost of repairing the defect or damage.

33. The Customer must not modify, alter, add to or make any improvements to the Equipment.

LOCATION OF EQUIPMENT

34. The Equipment must be kept by the Customer at the location specified in the Hire Agreement/Contract and must not be removed from that location without the prior written consent of ETS. The Customer warrants that the premises at which the

Equipment is to be kept are, and will be, for the Rental Period, under the sole control of the Customer.

35. If the Equipment is to be kept at premises which are not owned by the Customer, or that are subject to any Encumbrance, if requested by ETS at any time, the Customer must obtain from each owner and/or holder of such an Encumbrance a written acknowledgement that the Equipment is ETS's property and an authorisation for ETS to remove the Equipment from the premises without liability to ETS, and provide the acknowledgement and authorisation to ETS.

LOSS OR DAMAGE TO THE EQUIPMENT

36. The Customer bears the risk of loss, theft or destruction of, or damage to, the Equipment for any cause whatsoever, commencing on the date that the Customer receives the Equipment from or at the direction of ETS and ending at the time the Customer returns the Equipment to ETS.

37. No loss, theft, or destruction of, or damage to, the Equipment will relieve the Customer from any obligation under these Terms and Conditions. If ETS determines that any Equipment is lost or stolen and irrecoverable, or is destroyed or damaged beyond repair, the Customer must pay ETS on demand an amount equal to the full replacement cost of the Equipment (which shall be determined by ETS in its sole discretion). Failure to provide a purchase order or full payment for replacement unit, will incur ongoing rental charges as per Hire Agreement/ Contract until customer provides confirmation of full payment for lost equipment. This additional hire charge, until customer pays full amount for replacement unit does not contribute towards replacement equipment costs. ETS reserves the right to continue charging customer normal hire rate as per Hire Agreement/ Contract until full payment for replacement equipment is paid by customer.

INSURANCE

38. The Customer must, at all times, at its expense, take out and maintain insurance policies covering the following risks in a form, amount and with insurers acceptable to ETS, and such policies must note ETS's interest in the Equipment:

(a) loss, theft or destruction of, or damage to, the Equipment for its full replacement value; and

(b) public liability and third party property insurance.

39. The Customer must not:

(a) do anything, or fail to do anything, which may allow an insurer to refuse or reduce a claim under a policy referred to in clause 38;

(b) vary any such insurance without ETS's consent; or

(c) enforce, conduct, settle or compromise a claim under such an insurance policy without ETS's consent.

40. Upon ETS's request, the Customer must promptly provide ETS with evidence of the existence and currency of the insurance policies referred to in clause 38.

DEFAULT

41. An Event of Default occurs if:

(a) the Customer fails to comply with these Terms and Conditions or the terms of any contract between the Customer and ETS when due;

(b) the Customer is in breach of any other provision of these Terms and Conditions and (if that breach is capable of remedy) the Customer fails to remedy the breach within 7 days of ETS having given the Customer written notice of the breach;

(c) the Customer has made any misleading or false statement in connection with its application to rent Equipment from ETS, or its performance of these Terms and Conditions and/or the Hire Agreement/Contract;

(d) an application to wind up the Customer is made, or the Customer is wound up or otherwise ceases to exist;

(e) the Customer being an individual is declared bankrupt or becomes of unsound mind;

(f) the Customer enters into any composition or arrangement with its creditors or goes into liquidation (voluntarily or otherwise) or has a receiver or liquidator or trustee or administrator or similar official appointed over all or part of its assets;

(g) the Customer ceases or threatens to cease to carry on all, or substantially all, of its business or operations;

(h) an order being made, or the Customer passing a resolution, or any other step is taken, for the Customer's winding up (including

but not limited to an application being made to a court for an order for its winding up);

(i) the Customer becomes or is declared or is deemed to be insolvent, or is unable or deemed to be unable to pay its debts, or stops or threatens to stop payments generally;

(j) the Customer undergoes a change in its control or ownership not approved by ETS in writing; or

(k) an event or circumstance occurs in relation to the Customer which is analogous to any event or circumstance specified in paragraphs (d) to (i).

42. Upon the occurrence of an Event of Default, ETS may terminate these Terms and Conditions and the rental of Equipment by the Customer by providing written notice of termination to the Customer, in which case these Terms and Conditions and the rental of Equipment will terminate when such notice is provided.

43. If ETS gives the Customer a notice of termination under clause 42, the Customer must make the Equipment available for collection in accordance with clause 22 and must pay to ETS:

(a) all Rental Instalments and other amounts due and payable as at the date of termination;

(b) the total Rental Instalments that would have been payable under these Terms and Conditions for the Rental Period remaining after the date of termination; and

(c) interest and any other amounts payable by the Customer under these Terms and Conditions.

44. If an Event of Default occurs, ETS, with or without notice to the Customer, has the right to enter the Customer's premises and remove the Equipment.

45. The Customer must give ETS full details of any Event of Default as soon as it becomes aware that the Event of Default has occurred.

EXCLUSION AND LIMITATION OF LIABILITY

46. The Customer acknowledges and agrees that:

(a) it has taken its own advice as to the taxation, accounting and financial consequences of entering into these Terms and Conditions, and has not relied on ETS in relation to any of these matters;

(b) it does not enter into these Terms and Conditions as trustee of any trust or settlement, or as agent for any principal that has not been disclosed to ETS in writing; and

(c) if it enters into these Terms and Conditions as trustee of a trust or settlement, the Customer is liable both in its own right and as trustee of the trust or settlement.

47. The Customer acknowledges that it has undertaken its own inspection and made its own independent enquiries in deciding to rent the Equipment in accordance with these Terms and Conditions.

48. The Customer acknowledges that ETS has not made and will not make any express or implied warranties in relation to the Equipment or other goods or services provided under these Terms and Conditions other than those contained in these Terms and Conditions. Subject to clauses 51 and 52, any term that would be implied into these Terms and Conditions, including without limitation any condition or warranty, is expressly excluded to the extent permitted by law.

49. The Customer agrees that ETS is not liable in respect of any claim by the Customer (whether in contract, tort, statute or otherwise) for any special, incidental, indirect or consequential damages or injury including, but not limited to, any loss of profits, contracts, revenue or data arising out of or in connection with the provision or use of the Equipment and/or any other goods or services under these Terms and Conditions and whether as a result of any breach, default, negligence or otherwise by ETS.

50. Subject to clauses 51 and 52, the maximum liability of ETS for any and all breaches of these Terms and Conditions at any time

will be the total amount paid by the Customer to ETS under these Terms and Conditions up to that time.

51. If the Trade Practices Act 1974 (Cth) (or similar state or territory legislation) imposes any liability on ETS in respect of the supply of goods or services under these Terms and Conditions which may be limited, the liability of ETS is limited, at the option of ETS, to:

(a) in the case of the supply of goods (including the Equipment), any one or more of the following:

(i) the replacement of the Equipment or supply of equivalent equipment;

(ii) the repair of the Equipment;

(iii) the payment of the cost of replacing the Equipment or acquiring equivalent equipment; or

(iv) the payment of the cost of having the Equipment repaired.

(b) in the case of services:

(i) the supply of the services again; or

(ii) the payment of the cost of having the services supplied again.

52. Any of these Terms and Conditions which seek to limit or exclude any term, condition or warranty or the liability of ETS will not apply to the extent that such exclusion or limitation would be prohibited by law.

INDEMNITY

53. The Customer indemnifies ETS, its agents, employees, successors and assigns (each a Beneficiary) from and against all loss, cost, expense or damage (including legal costs on a full indemnity basis and consequential or indirect loss) suffered or incurred by a Beneficiary arising out of or relating to:

(a) any breach of these Terms and Conditions by the Customer;

(b) the occurrence of any Event of Default;

(c) any damage to the Equipment during the Rental Period;

(d) any action, claim, proceeding or demand instituted or made against ETS by any person which arises directly or indirectly out of any breach by the Customer of these Terms and Conditions or any Event of Default;

(e) any action, claim, proceeding or demand instituted or made against ETS by any person which arises directly or indirectly out of or as a result of ETS or its agents entering any premises at which the Equipment is kept and/or removing the Equipment from such premises in accordance with these Terms and Conditions; and

(f) any personal injury, death or damage to property caused or contributed to by the Customer,

NAME OF HIRER: .....

SIGNATURE OF HIRER: ..... DATE SIGNED:

including as a result of the Customer's use of the Equipment.

54. The indemnity in clause 53 is a continuing obligation, separate from and independent of the Customer's other obligations under these Terms and Conditions and survives termination or expiry of the Rental Period or these Terms and Conditions.

USE OF PRODUCTS

55. Except to the extent that ETS has made express representations in writing, the Customer shall be responsible for determining the suitability of the Products for the purpose for which they are intended, and acknowledges and agrees that ETS is not necessarily aware of that purpose and that the Customer has not relied on ETS's advice.

56. In accordance with the provisions of the Trade Practices Amendment (Australian Consumer Law) Act 2009 (Cth) (and its related legislation), the Customer acknowledges and agrees that the Products are not goods whose supply is wholly or predominately for personal, domestic or household use or consumption.

GENERAL

57. These Terms and Conditions can only be amended, supplemented, replaced or novated by another document signed by the parties.

58. These Terms and Conditions contain the entire agreement between the parties about its subject matter. Any previous understanding, agreement, representation or warranty relating to that subject matter is replaced by these Terms and Conditions and has no further effect.

59. The rights of ETS are cumulative and are in addition to any other rights of that party.

60. All contracts between the Customer and ETS (including but not limited to these Terms and Conditions) are governed by the laws of the State of New South Wales and the parties irrevocably submit to the non-exclusive jurisdiction of the courts of NSW.

61. Any provision of these Terms and Conditions which is unenforceable, illegal or void or partly unenforceable, illegal or void is, where possible, to be severed to the extent necessary to make these Terms and Conditions enforceable.

62. No failure or partial failure by a party to enforce any of its rights under these Terms and Conditions constitutes a waiver or partial waiver of that right, and no waiver is effective unless it is in writing and signed by authorised representatives of each party.

63. The Customer shall not assign its rights, or novate is obligations, under these Terms and Conditions without the prior written consent of ETS. ETS may assign its rights, or novate its obligations under these Terms and Conditions, without obtaining the consent of the Customer.

64. Each party must promptly sign all documents and do all things that another party from time to time reasonably requests to effect, perfect or complete these Terms and Conditions and all transactions incidental to it.

65. Each Hire Agreement/ Contract is accompanied with this Terms and Conditions and customers acceptance to the Hire Agreement/ Contract or use of ETS Hire equipment under the Hire Agreement/ Contract shall be considered as customers acceptance to this Terms & Conditions with or without signing the Hire Agreement/ Contract.

66. All notices and other communications provided for or permitted under these Terms and Conditions or otherwise shall be sent by certified or registered mail with postage prepaid, by hand delivery or by facsimile or email transmission to the parties' respective contact details notified to each other from time to time.

We appreciate your time and business

ISO 9001 and 14001 Certified Company

NAME OF HIRER: .....

SIGNATURE OF HIRER: ..... DATE SIGNED:

Calibration and Service Report

EXPERT TESTING SERVICES
ABN: 74 619 717 350
Contact: 02 9730 2019
Email: rentals@experttesting.com.au
9/171 Power Street, Glendenning NSW 2761
Web: www.experttesting.com.au

Company:	Expert Testing Services (Hire) Pty Ltd	**Manufacturer:**	Solinst	**Serial #:**	484525
Address:	9/171 Power Street GLENDENNING NSW 2761	**Instrum./Model:**	Interface Probe 122	**Tape Length:**	30m
Phone:	02 9730 2019	**Client Company:**	Lanterra Consulting	**Client Email:**	
Email:	rentals@experttesting.com.au	**Client Name:**	Samantha	**Client Phone:**	

Equipment Check

Oil/Water Interface Meter - Solinst 122 Interface Meter

Customer:	Lanterra Consulting	**Manufacturer:**	Solinst Interface Meter
Contact:	Samantha	**Instrument:**	Model 122
Order:		**Serial #:**	484525
		Tape length:	30m

Item	Test	Pass	Comments
Battery	Voltage (2 x 9v battery)	✓	Voltage above 7.9v
	Fuses	✓	
	Capacity	✓	
Probe	Decontaminated	✓	
	Condition	✓	
	Operation	✓	
Connectors	Condition	✓	
Tape Check	Condition	✓	
	Decontaminated	✓	
Instrument Test	At surface level	✓	Tap water and Petrol
Speaker	Operation	✓	

Comments

New unit.

This is to certify that the above instrument has been checked and is in good working order.

Checked By: Milenko Sisic

Check Date: 22.01.2024 **Due for Check:** 22.07.2024

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Calibration and Service Report

EXPERT TESTING SERVICES
ABN: 74 619 717 350
Contact: 02 9730 2019
Email: rentals@experttesting.com.au
9/171 Power Street, Glendenning NSW 2761
Web: www.experttesting.com.au

Company:	Expert Testing Services (Hire) Pty Ltd	**Manufacturer:**	YSI	**Serial #:**	21J102886
Address:	9/171 Power Street GLENDENNING NSW 2761	**Instrum./Model:**	Pro Quatro	**Cable S/N:**	21M100418
Phone:	02 9730 2019	**Client Company:**	Lanterra	**Client Email:**	
Email:	rentals@experttesting.com.au	**Client Name:**	Samantha	**Client Phone:**	

Item	Test	Pass	Comments
Battery	2 x Alkaline C-cells	✓	Voltage reading above 2.9V
	Battery Saver	✓	Automatically turns off after 60 minutes if not used
Connections	Condition	✓	Good, clean
Cable	Condition	✓	Clean, no tears
Display	Operation	✓	
Firmware	Version	✓	0.0.79
Keypad	Operational	✓	
Display	Screen	✓	
Unit	Condition, seals and O-rings	✓	
Monitor housing	Condition	✓	
pH			
Condition		✓	Good, clean
pH millivolts for pH7 calibration range 0 mV ± 50 mV		✓	
pH 4 mV range + 165 to + 180 from 7 buffer mV value		✓	
pH slope		✓	55 to 60 mV/pH; ideal 59mV
Response time < 90 seconds		✓	
Calibrated and conforms to manufacturer's specifications		✓	
ORP			
Condition		✓	Good, clean
Response time < 90 seconds		✓	
within ± 80mv of reference Zobell Reading		✓	
Calibrated and conforms to manufacturer's specifications		✓	Variance range ± 20mV
Conductivity			
Condition		✓	Good, clean
Temperature		✓	°C
Conductivity cell constant 5.0 ± 1.0 in GLP file		✓	
Clean sensor reads less than 3 uS/cm in dry air		✓	
Calibrated and conforms to manufacturer's specifications		✓	µs/cm
Dissolved Oxygen			
Condition		✓	Good, clean
DO sensor in use		✓	Galvanic
1.25 mil PE membrane (yellow membrane):		✓	
DO Sensor Value		✓	(min 4.31 uA - max 8.00 uA) Avg 6.15 uA
Calibrated and conforms to manufacturer's specifications		✓	ppm

Instrument Readings

Parameter	Standards	Reference	Calibration Point	Before	After	Units
Temperature	Hanna HI98509; SN:31E0C9	Room Temp.	27.7	N/A	27.7	°C
pH	pH 4.00	385495	4.01	4.04	4.01	pH
pH	pH 7.00	382472	6.99	7.04	6.99	pH
Conductivity	2760 µs/cm at 25°C	411815	2760	2797	2760	µs/cm
ORP (Ref. check only)	Zobell A & B	12606A & 12606B	221.8	224.3	221.8	mV
Zero Dissolved Oxygen	NaSO3 in distilled water	123302	0.0	0.0	0.0	%
100% Dissolved Oxygen	100% Air Saturation	Fresh Air	99.6	91.9	99.6	%

Checked By: Milenko Sisic
Check Date: 22.01.2024 **Due for Check:** 22.07.2024

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Appendix J

Detailed Site Investigation Checklist

Report Title: P23158 - Detailed Site Investigation, Bevian Road, Rosedale NSW 2536

Date: 5/4/2024

The following checklist template has been adopted from the NSW EPA *Consultants reporting on contaminated land Contaminated Land Guidelines*, May 2020.

Report Section	Required Information	Present Yes/No/NA
Document Control	Date, Version Number, author and reviewer (including certification details) and who commissioned the report	Yes
Executive Summary	Background	Yes
	Objectives of the Investigation	Yes
	Scope of Work	Yes
	Summary of key findings	Yes
	Summary of conclusions and recommendations	Yes
Objectives	The objectives of the investigation / report and the broader objectives for the site/investigation	Yes
Scope of Work	Scope of work performed (and work not undertaken where relevant)	Yes
Site Identification	Site identification and detail items from ASC NEPM Field Checklist 'Site Information' sheet	Yes (See Comments Below)
Site History	Review of Aerial Photographs	Yes
	Contaminated Land Search	Yes
	Groundwater Bore Search	Yes
	Review of Historical Plans or Records	N/A
	A review of current and former uses of the site	Yes
	A review of heating methods utilised at the site including an inspection to identify the presence otherwise of aboveground and/or underground fuel storage tanks and other potentially contaminating activities	Yes
	A review of dangerous substances storage at the site	N/A

	Discussions with current and past land managers, lessees and site users	Yes
	Land Title Searches	N/A
	Identification of potential contaminant types based on site uses, site history and building records.	Yes
Site Condition and Surrounding Environment	Site condition and surrounding environment items from ASC NEPM Field Checklist 'Site Information' sheet	Yes
Conceptual Site Model	Regional and local geology, hydrogeology and hydrology items from the ASC NEPM Field Checklist 'CSM' sheet	Yes
	List of Potential contaminants of potential concern	Yes
	Potential and known sources of contamination, on- and offsite	Yes
	Mechanism of contamination (e.g. top-down spill, subsurface release from tank or pipe, atmospheric deposition etc.)	Yes
	Potentially affected environmental media	Yes
	Consideration of spatial and temporal variations	Yes
	Actual or potential exposure pathways including preferential pathways	Yes
	Human and ecological receptors	Yes
	Frequency of exposure	N/A
	Linkage of source, pathway and receptor assessed in terms of potentially complete pathways and likelihood	Yes
	Discussion on multiple lines of evidence (for complex sites)	Yes
Data Quality Objectives	Step 1: State the Problem	Yes
	Step 2: Identify the decision/goal of the study	Yes
	Step 3: Identify the information inputs	Yes
	Step 4: Define the boundaries of the study	Yes
	Step 5: Develop the analytical approach	Yes
	Step 6: Specify performance and acceptance criteria	Yes
	Step 7: Develop the plan for obtaining data	Yes
Sampling and Analysis Quality Plan and Sampling Methodology		N/A
Quality Assurance / Quality Control	Details of Sampling Team	Yes
	References to sampling plan/method, including any deviations from it – sampling and analysis quality plan	Yes
	Any information that could be required to evaluate measurement uncertainty for subsequent testing (analysis)	N/A
	Decontamination procedures carried out between sampling events	Yes

	Logs for each sample collected, including date, time, locations (with GPS Coordinates if possible), sampler, duplicate samples, chemical analyses to be performed, site observations and weather/environmental (i.e. surroundings) conditions. Include any diagrams, maps, photos.	Yes
	Chain of Custody fully identifying for each sample – the sampler, nature of the sample, collection date, analyses to be performed, sample preservation method, departure time from the site and dispatch couriers (where applicable).	Yes
	Field quality assurance/quality control results (e.g. field blank, rinsate blank, trip blank, laboratory prepared trip spike)	Yes
	Sample splitting techniques – subsampling, containers/preservation (ensure unique ID for subsequent samples provided)	Yes
	Statement of duplicate frequency	Yes
	Background sample results	N/A
	Field instrument calibrations	Yes
	Sampling devices and equipment	Yes
	A copy of signed chain of custody forms acknowledging receipt date, time and temperature and identity of samples including shipments	Yes
	Recording of holding times and a comparison with method specifications	Yes
	Analytical methods used, including any deviations	Yes
	Laboratory performance for the analytical method using inter-laboratory duplicates.	Yes
	Surrogates and spikes used throughout the full method process, or only in parts. Results are corrected for the recovery.	Yes
	A list of what spikes and surrogates were run with their recoveries and acceptance criteria	Yes
	Practical Quantification Limits (PQL)	Yes
	Reference Laboratory control sample (LCS) and check results	Yes
	Laboratory duplicate results	Yes
	Laboratory blank results	Yes
	Results are within control chart limits	Yes
	Evaluation of all quality assurance/quality control information listed above against the stated data quality objectives including a quality assurance/control data evaluation	Yes
Field and Analytical Results	Summary of Previous Results	Yes
	A table of analytical results that:	Yes
	Shows all essential details such as sample identification numbers and sampling depth	Yes
	Shows assessment criteria	Yes
	Highlights all results exceeding any assessment criteria	Yes

	Summary/discussion of the analytical results table	Yes
	Sample descriptions for all media where applicable (e.g. soil, sediment, surface water, groundwater, soil vapour, ground gas, indoor air and biota).	Yes
	Test pit or bore logs (well construction details where appropriate for example groundwater level expressed in Australian height datum)	Yes
	Site plan showing all sample locations	Yes
	Site plan(s) showing the extent of soil and groundwater contamination (if known)	Yes
Conclusions and Recommendations	Summary of all findings and discussion of results	Yes
	Conclusions addressing the stated objectives	Yes
	Assumptions used in reaching the conclusions	No
	Extent of uncertainties in the results (quantified where possible)	No
	A clear statement that the site is considered to be suitable for the proposed use	Yes
	A statement detailing the limitations and constraints on the use of the site	Yes
	Recommendations for further work (if appropriate)	Yes
References	References for all guidelines and previous investigations.	Yes