DETAILED SITE INVESTIGATION

N6382

IdealCorp Pty Ltd

Proposed development at:

46-54 Ferodale Road,

Medowie NSW 2318

Monday, 31st July 2023

Report Distribution

Detailed Site Investigation

Address: 46-54 Ferodale Road, Medowie NSW 2318

Report No: N6382

Date: Monday, 31st July 2023

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Project Manager

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Executive Summary

NEO Consulting were appointed by IdealCorp (the client) to undertake a Detailed Site Investigation (DSI) for the property located at No. 46-54 Ferodale Road, Medowie, NSW, 2318 (the site). The site is legally defined as Lots 3-8/-/DP243518, has an approximate total area of 7.7 ha, and is currently zoned as RU2 - Rural Landscape.

Based on information provided by the client, NEO Consulting understand that the site is proposed to be rezoned for both residential and commercial use. As proposed plans have not been provided at the time of writing, NEO Consulting have applied the residential assessment criteria to the site as a whole, however this may be able to be amended on review of the proposed plans.

The objective of this DSI was to provide an assessment of contaminating activities that have impacted the site and assessment of suitability of the site for the proposed development and intended NEPM Residential (A) land use. The following scope of works were undertaken:

- A site inspection to identify potential sources of contamination on site;
- Installation of a groundwater monitoring well;
- A soil and groundwater sampling program, with NATA accredited laboratory analysis for relevant CoPC;
- Review of historical environmental investigations for the site;
- Review of current and historical Certificates of Title;
- Review of local Council records and planning certificates;
- Review of NSW EPA Contaminated Land Records, POEO Register and PFAS investigation Program maps;
- Review of local geological and hydrogeological information, including an evaluation of the NSW Groundwater registered groundwater bore database;
- Review of Acid Sulphate Soil data maps;
- Development of a Conceptual Site Model (CSM) to identify the connections between potential sources of contamination and exposure pathways, human and/or ecological receptors; and
- Recommendations for additional investigations (if any), based on the identified data gaps and findings of this report.

A site inspection was undertaken on the 19th of July 2023 by NEO Consulting. In total, 40 primary soil samples were obtained from 24 boreholes and test pits (0.15-0.5mbgl) with a judgmental sampling pattern. Additionally, QA/QC procedures were undertaken with three (3) intra-laboratory samples, one (1) rinsate sample, one (1) trip spike and one (1) trip blank. Additional 500mL samples were obtained at a depth of 0.1mbgl from each location for Asbestos analysis. The samples were submitted to NATA accredited laboratories for chemical analysis of Contaminants of Potential Concern (CoPC).

Soil analytical results indicate no exceedances of the NEPM 2013 Health and Ecological Assessment Criteria for Residential (A) sites, with the exception of Benzo(a)pyrene (BaP) in the uppermost fill at location BH19. The PCA undertaken by Qualtest (December 2019, *NEW19P-0184-AA*) states that builders rubble including bricks and tiles were found at this location.

The NEPM provides a low reliability guideline value for Benzo(a)pyrene (BaP) compared with the higher reliability ecological guidelines. The NEPM 2013 ESL for BaP is 0.7mg/kg (low reliability). The Derived Ecological Guideline (DEG) (95% confidence limits) is 33mg/kg (high reliability) and the Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines for Environmental Health (SQGE) 2010 is 20mg/kg (high reliability). In this case the CCME SQGE will be applied as the primary criteria for BaP levels, due to superior reliability.

Based on the site investigation and analytical results, NEO Consulting considers the potential for significant contamination of on-site soil to be low. NEO Consulting finds that the site can be considered suitable for the proposed development and Residential (A) use, providing that the recommendations within **Section 16** of this report are undertaken.

1. Introduction

1.1 Background

NEO Consulting was appointed by IdealCorp Pty Ltd (the client) to undertake a Detailed Site Investigation (DSI) for the property located at No. 46-54 Ferodale Road, Medowie, NSW, 2318 (the site). The site is legally defined as Lots 3-8/-/DP243518, has an approximate total area of 7.7 ha, and is currently zoned as RU2 - Rural Landscape.

A site inspection was undertaken on the 19th of July 2023 by NEO environmental consultants. Reporting, photographs and sampling were conducted on this day and with reference to the relevant regulatory criterial **(2. Scope of Work)**. Further information of the inspection is described in **4. Site Condition**.

Based on information provided by the client, NEO Consulting understand that the site is proposed to be rezoned for both residential and commercial use. As proposed plans have not been provided at the time of writing, NEO Consulting applies residential criteria to the site as a whole.

1.2 Trigger for Assessment

This DSI was undertaken to determine the suitability of the site for proposed development. Based on information provided by the client, NEO Consulting understand that the site is proposed to be rezoned for both residential and commercial use. As proposed plans have not been provided at the time of writing, NEO Consulting applies residential criteria to the site as a whole.

1.3 Objectives

This report provides an assessment of current and/or historical potentially contaminating activities that may have impacted onsite soils and will determine if the site is suitable for the proposed use.

1.4 Statutory and Regulatory Requirements

The DSI has been prepared in general accordance with the following statutory and regulatory requirements:

Statutory Requirements

- National Environment Protection Council Act 1994;
- Protection of the Environment and Operation Act 1997;
- Contaminated Land Management Act 1997;
- Work Health and Safety Act, 2011.

Regulatory Requirements

- State Environmental Planning Policy (Resilience and Hazard) 2021;
- NEPC, National Environment Protection (Assessment of Site Contamination) Measures (NEPM), 2013;
- HEPA, PFAS National Environmental Management Plan, Version 2.0, 2020;
- The National Remediation Framework, CRC Care, 2019;
- Protection of the Environment Operations (Waste) Regulations, 2005;
- SafeWork NSW, *Managing Asbestos in or On Soil*, 2014;
- Work Health and Safety Regulation, 2017;
- NSW EPA, *Contaminated Land Guidelines, Sampling Design Part 1 – Application*, 2022;
- NSW EPA, *Contaminated Land Guidelines, Sampling Design Part 2 – Interpretation*, 2022;
- NSW EPA, *Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act*, 1997;
- NSW EPA, *Resource Recovery Order under Part 9, Clause 93 of the Protection of the Environment Operations (Waste) Regulation, 2014*;
- NSW EPA, *Consultants Reporting on Contaminated Land: Contaminated Land Guidelines,* 2020;
- NSW EPA, *Contaminated Land Management, Guidelines for the NSW Site Auditor Scheme,* 2017 (3rd Edition);

- NSW EPA, *Waste Classification Guidelines Part 1: Classifying Waste,* 2014; and
- NSW EPA, Consultants Reporting on Contaminated Land: Contaminated Land Guidelines, 2020.

2. Scope of Work

To meet the requirements in Section 1.4 of this report, the following scope of works were included:

- A site inspection to identify potential sources of contamination on site;
- Installation of a groundwater monitoring well;
- A soil and groundwater sampling program, with NATA accredited laboratory analysis for relevant CoPC;
- Review of historical environmental investigations for the site;
- Review of current and historical Certificates of Title;
- Review of local Council records and planning certificates;
- Review of NSW EPA Contaminated Land Records, POEO Register and PFAS investigation Program maps;
- Review of local geological and hydrogeological information, including an evaluation of the NSW Groundwater registered groundwater bore database;
- Review of Acid Sulphate Soil data maps;
- Development of a Conceptual Site Model (CSM) to identify the connections between potential sources of contamination and exposure pathways, human and/or ecological receptors; and
- Recommendations for additional investigations (if any), based on the identified data gaps and findings of this report.

3. Site Details

Table 1. Site Details

Address	No. 46-54 Ferodale Road, Medowie, NSW, 2318, Medowie NSW 2318
Deposited plan	Lots 3-8/-/DP243518
Zoning	RU2 - Rural Landscape
Locality map	Figure 1, Appendix A
Site Boundary	Figure 2, Appendix A
Area	7.7 ha

Table 2. Surrounding land-use

Direction	Land-use
North	Ferodale Street
East	Rural residential properties
South	Residential properties
West	Medowie Road

4. Site Condition

A site inspection was undertaken on the 19th of July 2023 by NEO environmental consultants. During the site inspection, the following observations were noted:

- The site consisted of six (6) rural lots;
- No. 754 Medowie Road contained the following;
    - A brick and wooden clad house with metal sheet roof was located in the central portion of Lot 8;
    - A vegetable garden with orchard trees and fertilised soils were observed on the northern boundary of Lot 8.

- No. 46 Ferodale Road contained the following;
  - A house was located in the central northern portion of Lot 7, and was constructed of brick with a tile roof;
  - Two large steel-clad storage sheds, with concrete pads in good condition, were observed in the central portion of Lot 7;
  - A fibre-cement clad shed (potentially asbestos containing) was observed in the central northern portion of Lot 7. Small fragments were inspected and deemed unlikely to contain asbestos.
- No. 48 Ferodale Road contained the following;
  - A house and garage were located in the northeast corner of Lot 6, and were constructed of brick with a metal sheet roof;
  - An asphalt paved driveway, in good condition, extended from the northern boundary of Lot 6 to the house and down the western side of the house to the garage;
  - A small garden was found immediately south of the onsite dwelling.
- No. 50 Ferodale Road contained the following;
  - A house was located in the central portion of Lot 5, and was constructed of brick with tile roof;
  - A pool was located onsite.
- No. 52 Ferodale Road contained the following;
  - A rendered and clad building with a tiled roof house on brick foundations, with potential asbestos containing material in eaves, was located in the central portion of Lot 4;
  - A septic tank was observed directly south of the house.
- No. 54 Ferodale Road contained the following;
  - A house was located near the northern boundary of Lot 3, and was constructed of brick with metal sheet roof
  - The driveway to the house was concrete paved and in good condition;
  - next to the dam with bricks and tiles also observed in the culvert;
  - A septic tank was located at the central eastern boundary of Lot 3;
  - A pile of building materials, predominately concrete and wood, was observed near the
  - southern boundary of the site);
  - Fill mounds and undulating ground were observed throughout Lot 3.

5. Site History

5.1 History of Site

Table 3. Historical aerial images of the site and surrounding area.

Year	Description
1954	The site appears to be undeveloped land covered in native vegetation and trees What will become Lot 7 appears to be cleared as does some of Lot 8.
1966	The site appears to be similar to the previous photograph. Two structures appear to have been built on inferred Lot 7 with access off Ferodale Road. There doesn't appear to be any additional land clearing.
1975	Additional land clearing has occurred in the inferred Lot 8 and to the east (inferred Lot 4). A rectangular cleared area is also present on Lot 7 surrounding the two structures. No clearing has occurred in the central part of the site (inferred Lots 5 and 6) or to the east (inferred Lot 3 and 2). Two structures appear to be present at the north eastern boundary of the inferred Lot 4.
1984	The inferred Lots 7, Lot 6, Lot 5, Lot 3 and Lot 2, appear similar to the previous aerial photo. Lots 8 and 4 appear to have additional mature vegetation.
1993	Lot 8 appears to have been cleared with access off Medowie Road. A structure is been built on this Lot. Inferred Lot 6, Lot 3 and Lot 2 have also been cleared with access off

	Ferodale Road. Inferred Lot 5 appears to be vacant and uncleared. Inferred Lot 6 has 2 structures located in north of the Lot. The inferred Lot 3 has one large structure in north and a dam in the south. The inferred Lot 2 has a structure located near the southern Lot boundary.
2010	The inferred Lot 5 has been cleared and has a structure built in the northern portion fronting Ferodale Road. There is an additional structure on inferred Lot 2, with access from Ferodale Road.
2019	The site appears similar to the previous photograph with more mature vegetation cover than the previous aerial photograph.

Table 4. Historical ownership

	(Lot 7 DP 243518)
02 Aug 2019 – todate	2 North Avenue Pty Ltd *(ACN 158 690 987)*
12 Sep 2017	Phillip John Downey
19 Sep 1991	Phillip John Downey, assistant foreman Gwenneth Margaret Downey, his wife
08 Jan 1988	Phillip John Downey, assistant foreman Margaret Downey, his wife
	(Lot 7 DP 243518 – CTVol 11956 Fol 245)
14 Oct 1980	Phillip John Downey, assistant foreman Margaret Downey, his wife
26 Oct 1972	George Malcolm Henderson, fitter
	(Lot 223 DP 17437 – Area 26 Acres 1 Rood 19 ¾ Perches – CTVol 5959 Fol 22)
21 Oct 1969	George Malcolm Henderson, fitter
06 May 1949	Richard Wallace Henderson, miner George Malcolm Henderson, fitter
	(Lots 223 DP 17437 and other land – Area 970 Acres 3 Roods 21 ¾ Perches – CTVol 5905 Fol 157)
07 Dec 1948	Closer Settlement Limited
	(Part Portion 146 Parish Stowell and other land – Area 1318 Acres 0 Roods 14 Perches – CTVol 4631 Fol 177)
20 Jun 1934	Closer Settlement Limited
19 Jun 1934	Henry Ferdinand Halloran, registered surveyor
	(Part Portion 146 Parish Stowell and other land – Conv Book 925 No. 465)
18 Jan 1911	Henry Ferdinand Halloran, licensed surveyor

	(Lot 3 DP 243518)
09 Jan 2018 – todate	2 North Avenue Pty Ltd *(ACN 158 690 987)*
23 Jan 2001	Leigh Raymond Carmichael Kerrie Maureen Carmichael
23 Jun 1995	Michael James Johnson
08 Jan 1988	Michael James Johnson Robyn Leonie Johnson
	(Lot 3 DP 243518 – CTVol 11956 Fol 241)
10 Nov 1983	Michael James Johnson Robyn Leonie Johnson
28 Feb 1973	Alan Ray Brazil, member of australian airforce Susan Ann Boyd, spinster

26 Oct 1972	George Malcolm Henderson, fitter
	(Lot 223 DP 17437 – Area 26 Acres 1 Rood 19 ¾ Perches – CTVol 5959 Fol 22)
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	(Part Portion 146 Parish Stowell and other land – Conv Book 925 No. 465)
18 Jan 1911	Henry Ferdinand Halloran, licensed surveyor

5.2 Section 10.7 (2) Planning Certificate

A Section 10.7 Planning Certificate describes how a property may be used and the restrictions on development. The Planning Certificate is issued under Section 149 of the Environmental Planning and Assessment Act 1979. The following are environmentally relevant points:

- The site is zoned as RU2 Rural Landscape
- The land is not land that includes or comprises critical habitat declared to be critical habitat under Part 3 of the Threatened Species Conservation Act 1995.
- An item of environmental heritage identified in Port Stephens Local Environmental Plan 2013 is not situated on the land
- The land IS NOT within a proclaimed Mine Subsidence District under the Mine Subsidence Compensation Act 1961.
- Council indicates some of the land is bushfire prone land as defined in the Environmental Planning & Assessment Act 1979.
- The land or part of the land is not significantly contaminated land within the meaning of the Contaminated Land Management Act 1997 at the date this certificate is issued.
- The land is not subject to a management order within the meaning of the Contaminated Land Management Act 1997 at the date this certificate is issued.
- The land is not the subject of an approved voluntary management proposal within the meaning of the Contaminated Land Management Act 1997 at the date this certificate is issued.
- The land is not the subject of an ongoing maintenance order within the meaning of the Contaminated Land Management Act 1997 at the date this certificate is issued.
- The land is not the subject of a site audit statement within the meaning of the Contaminated Land Management Act 1997 (if a copy of such a statement has been provided at any time) to the local authority issuing the certificate.
- The land is classified as being Acid Sulphate Soil Class 5

5.3 NSW EPA Contaminated Land Register

A search within the NSW EPA contaminated land register was undertaken for the site. No results were found for the site or within 200m of the site.

5.4 Protection of the Environment Operation Act (POEO) Public Register

A search on the POEO public register of licensed and delicensed premises (DECC) was undertaken for the site. No results were found for the site or within 200m of the site.

5.5 SafeWork NSW Hazardous Goods

A search was not undertaken with SafeWork NSW for historical dangerous goods stored on-site.

5.6 Product Spill and Loss History

The visual site inspection did not identify any obvious evidence of petroleum-derived contamination within the site.

5.7 PFAS Investigation Program

The NSW Government PFAS Investigation Program map indicates the site is not currently listed or located within 1km of a listed site for PFAS contamination investigation and management programs.

6. Environmental Setting

6.1 Geology

Data obtained from the Geological Survey of NSW and the Geoscience Australia Stratigraphic Units Database indicate the site is underlain by Tomago Coal Measures (Permian), regionally characterised by shale, mudstone, sandstone, tuff and coal.

6.2 Soil Landscape

A review of the regional maps by the NSW Department of Planning, Industry and Environment indicates the site is generally located within the Medowie landscape group. This landscape group is normally recognised by Gently undulating low hills on relict sediments in the Medowie Lowlands region in the centre and east of the area.

Sediments of unknown age, consisting of weak to moderately strong, slightly porous massive medium grained silicified lenses, 1–2 m thick occur, alternating with tuff deposits and silica-containing kaolinitic clay lenses.

6.3 Hydrogeology and Groundwater

A groundwater bore search was conducted on 31st July 2023 and no boreholes were present within 500m of the site.

It was beyond the scope of works to study the groundwater flow direction. However, based on the regional topography, groundwater is expected to flow towards the lake located 3km west of the site.

6.4 Topography

The regional topography surrounding the site has moderate sloping (~10-15%) towards the south.

6.5 Site Drainage

Site drainage is likely to be consistent with the local topography. Stormwater likely flows west, eventually reaching the lake (3km west). Additionally, large portions of the site consist of accessible soils, which allow for direct infiltration into the sub-soil.

6.6 Acid Sulphate Soils

To determine whether there is a potential for ASS to be present at the site, information was reviewed utilising the NSW Department of Planning, Industry and Environment eSPADE map viewer. The ASS risk maps show the chance of acid sulphate soil occurrence. This search indicated that the site is located in a "Class 5 Area" indicating that Acid Sulphate Soils are unlikely to be found beneath it, but is located within 500 metres of a lower classed-area.

7. Areas of Environmental Concern

Based on the above information, the potential Areas of Environmental Concern (AEC) and their associated Contaminants of Potential Concern (CoPC) for the site were identified and summarised.

Table 5. Potential Areas and Contaminants of Concern

AEC	Potentially Contaminating / Hazardous Activity	CoPC	Likelihood of Site Impact	Comments
Entire site	Importation of fill material from unknown origin.	Metals, TRH, BTEX, PAH, pesticides, Asbestos	Moderate	Based on site observations, the presence of imported fill material is possible. Historical site use and activities may have given rise to contamination event/s.
Entire site	Hazardous materials from on-site structures: • Construction prior to 1970; • Weathering.	ACM, SMF, ODS, PCBs, Lead (paint and/or dust)	Moderate	Based on the age and materials of on-site structures, presence of these CoPC is likely. An HMS is recommended prior to demolition of onsite structures
Areas near onsite septic tanks	Leakage of tanks, allowing effluent to infiltrate surrounding soils.	Nitrates	Low	The onsite septic tanks appeared to be in good condition during onsite inspection. No indications of leakage were observed while sampling soil surrounding these tanks.

ABBREVIATIONS: ASBESTOS CONTAINING MATERIALS (ACM), BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE (BTEX), POLYCHLORINATED BIPHENYLS (PCBS), POLYCYCLIC AROMATIC HYDROCARBON (PAH), TOTAL PETROLEUM HYDROCARBONS (BHH), SYNTHETIC MINERAL FIBRES (SMF), HAZARDOUS MATERIALS SURVEY (HMS).

8. Conceptual Site Model

A Conceptual Site Model (CSM) was developed to provide an indication of potential risks associated with contamination source and contamination migration pathways, receptors and exposure mechanisms. The CSM provides a framework for the review of the reliability and useability of the data collected and to identify data gaps in the existing site characterisation. Here, we consider the connections between the following elements:

- Potential contamination sources and their associated CoPC;
- Potential human receptors that may be impacted by the site contamination are current and future site users including occupants to the dwelling/infrastructures on-site, site workers and the general public within the immediate vicinity of the site;
- Potential environmental receptors to the site including but not limited to: groundwater and surface water bodies, residual soils at and/or nearby the site;
- Potential exposure pathways; and
- Whether source-pathway-receptor connections are complete based on current and future site conditions.

Table 6. Conceptual Site Model

Potential Sources	Potential Receptor	Potential Exposure Pathway	Complete Connection	Risk	Justification/ Control Measures
Contaminated soil from Importation of fill material from unknow origin. Historical on-site activities. Hazardous materials within on-site structures	Future site occupant, construction workers, general public, surrounding sensitive receptors, ecological receptors	Dermal contact, ingestion of fibres and particulates, vapour intrusion, root uptake	Complete (current)	Moderate	Exposure to potentially contaminated soils is possible due to unsealed surfaces. Historical site use and activities may have led to contamination events. If present, impacted soils are to be disposed of off-site in accordance with an unexpected finds protocol.
			Complete (Future)	Low	
Leakage of onsite septic tanks	Natural soils	Migration of contamination from fill layer.	Complete (current)	Moderate	If contamination is present in the fill layer, migration to the natural layer is possible via pore fluid movement within loamy clays. If present, impacted soils are to be disposed of off-site.
			Complete (Future)	Low	
	Underlying aquifer	Leaching and migration of contaminants through groundwater infiltration.	Complete (current)	Low	Leachability of contaminants is possible. If present, contaminated soil and/or groundwater is likely to be remediated.
			Complete (future)	Low	

9. Assessment Criteria

The following assessment criteria were adopted for the investigation.

9.1 NEPM Health Investigation Level A (HIL-A) – Residential

HILs are scientific, risk-based guidance levels to be used as in the primary stage of assessing soil contamination to evaluate the potential risks to human health from chronic exposure to contaminants. HILs are applicable to a broad range of metals and organic substances, and generally apply to depths up to 3m below the surface for residential use. Tier 1 HILs are divided into sub-criteria. The sub-criteria appropriate to the site is HIL A – residential with garden/accessible soils.

Table 7. HIL-A

Assessment Criteria	HIL-A, mg/kg
HCB	10
Heptachlor	6
Chlordane	50
Aldrin & Dieldrin	6
Endrin	10
DDD+DDE+DDT	240
Endosulfan	270
Methoxychlor	300
Mirex	10
Arsenic, As	100
Cadmium, Cd	20
Chromium, Cr	100
Copper, Cu	6,000
Lead, Pb	300
Nickel, Ni	400
Zinc, Zn	7,400
Mercury, Hg	40
Carcinogenic PAHs (as BaP TEQ)	3
Total PAH (18)	300

9.2 NEPM Health Screening Level A (HSL-A) – Residential

HSLs have been developed for selected petroleum compounds and fractions and are used for the assessment of potential risks to human health from chronic inhalation and direct contact pathways of petroleum vapour emanating off petroleum contaminated soils (Vapour Risk). HSLs are guided by land-use scenarios, specific soil physicochemical properties and generally apply to depths below surface to >4m. Tier 1 HSLs are divided into sub-criteria. The sub-criteria appropriate to the site is HSL A – residential with garden/accessible soils.

Table 8. HSL-A for soil

Assessment Criteria	HSL-A for Vapour Intrusion, 0-<1m depth, Clay, mg/kg	HSL-A for Vapour Intrusion, 1-<2m depth, Clay, mg/kg
Benzene	0.7	1
Toluene	480	NL
Ethylbenzene	NL	NL
Xylenes	110	310

Naphthalene	5	NL
TRH C_6-C_{10} - BTEX (F1)	50	90
TRH >C_{10}-C_{16} - N (F2)	280	NL

9.3 NEPM Ecological Investigation Level (EIL) – Urban Residential and Public Open Space

Ecological investigation levels (EILs) have been developed to assess the risk for the presence of metals and organic substance in a terrestrial ecosystem. EILs are guided by land-use scenarios, specific soil physicochemical properties and generally apply to the top 2m of soil. The NEPM Soil Quality Guidelines (SQG) for EILs are calculated using the Added Contamination Limit (ACL) to determine the amount of contamination that had to be added to the soil to cause toxicity, including ambient background concentration (ABC).

Table 9. Generic EIL

Assessment Criteria	Generic EIL for Urban Residential and Public Open Space, mg/kg
Arsenic, As	100
DDT	180
Naphthalene	170

9.4 NEPM Ecological Screening Level (ESL) – Urban Residential and Public Open Space

ESLs have been developed for selected petroleum hydrocarbons (BTEX, benzo(a)pyrene, TRH F1 and F2) in soil, based on fresh contamination. These parameters are applicable to coarse and fine-grained soil and apply from the surface of the soil to 2m below ground level, which corresponds with the root and habitat zone for many species.

Table 10. ESL

Assessment Criteria	Soil ESL for Urban Residential and Public Open Space, fine-grained soil, mg/kg
Benzene	65
Toluene	105
Ethylbenzene	125
Xylenes	45
BaPyr (BaP)	0.7
TRH C_6-C_{10}	180
TRH >C_{10}-C_{16}	120
TRH >C_{16}-C_{34} (F3)	1,300
TRH >C_{34}-C_{40} (F4)	5,600

9.5 NEPM Management Limits – Residential, Parkland and Public Open Space

Management Limits for petroleum have been developed for prevention of explosive vapour accumulation, prevention of the formation of observable Light Non-Aqueous Phase Liquids (LNAPL) and protection against effects on buried infrastructure. Residential, Parkland and Public Open Space limits have been adopted based on the proposed land use.

Table 11. Management Limits

Assessment Criteria	Management Limits for Residential, Parkland and Public Open Space, fine-grained soil, mg/kg
TRH C_6-C_{10}	800
TRH >C_{10}-C_{16}	1000
TRH >C_{16}-C_{34} (F3)	3500
TRH >C_{34}-C_{40} (F4)	10000

9.6 NEPM Health Screening Level A (HSL-A) – Residential for Asbestos

The assessed soil must not contain Asbestos Containing Materials (ACM) in the excess of 0.01%w/w and surface soil within the site must be free of visible ACM, Asbestos Fines (AF) and Fibrous Asbestos (FA).

Table 12. Management Limits

Assessment Criteria	Health Screening Level (%w/w) Residential (A)
ACM	0.01%
FA and AF (friable asbestos)	0.001%
All forms of asbestos	No visible asbestos for surface soils

9.7 Canadian Council of Ministers of the Environment Guidelines- Urban Residential and Open Space Settings

The NEPM provides a low reliability guideline value for Benzo(a)pyrene (BaP) compared with the higher reliability ecological guidelines. The NEPM 2013 ESL for BaP is 0.7mg/kg (low reliability). The Derived Ecological Guideline (DEG) (95% confidence limits) is 33mg/kg (high reliability) and the Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines for Environmental Health (SQGE) 2010 is 20mg/kg (high reliability). All guidelines apply to an urban residential and open space setting for 85% species protection. In this case the CCME SQGE will be applied as the primary criteria for BaP levels, due to superior reliability.

Table 13. CCME guidelines for Benzo(a)Pyrene

Assessment Criteria	CCME Soil Quality Guidelines for Environmental Health	CCME Derived Ecological Guideline
Benzo(a)Pyrene	20 mg/kg	33 mg/kg

10. Sampling and Analysis Plan

10.1 Sampling Rationale

Table 14. Sampling Rationale

Sampling Decision	Chosen Approach	Justification
Sampling pattern	Judgemental sampling	This pattern was selected due to the area of the site, access to underlying soil, the AEC and CoPC as well as the potential heterogeneity of any contamination.
Sampling density	40 primary soil samples were obtained from twenty-four (24) Test Pits/boreholes	This sampling density was selected based on the extent of the potential contaminated area to be detected, feasibility, the site history, distribution of current and historical uses on site, location and condition of structures.
QA/QC sampling	Three (3) inter-laboratory samples One (1) rinsate sample One (1) trip spike One (1) trip blank	QA/QC sampling was undertaken in general accordance with specifications outlined in Australian Standards (AS) 4482.1-2005, Standard Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil and NEPM 2013 Schedule B2; *Guideline on Site Characterisation*.
Sampling depths	Upper fill sample (0-0.14m bgl), twenty-four (24) locations Lower fill sample (0.4-0.5m bgl) sixteen (16) locations,	These depths were selected in compliment with sampling density and to target depths of potential contaminants.

10.2 Field Sampling Methodology

A drill auger was used for each borehole and a shovel was used for each test pit (to depths of 0.15mbgl). Soil samples were collected from shallow fill/topsoil (0-0.15mbgl) below the surface and top of the natural soils (0.4-0.5mbgl) by clean nitrile gloves and placed in laboratory supplies containers. All equipment was decontaminated with Decon90 and deionised water between boreholes. Additional surface (0-0.1mbgl) samples were collected in 500mL zip bags for analysis of Asbestos. Samples were stored on ice in an esky while on-site and in transit to a NATA accredited laboratory for the analysis of the CoPC under Chain of Custody (COC) documentation.

Table 15. Sample details

Borehole	Sample	Depth (mbgl)	Soil Type
BH1	BH1.1	0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
	BH1.2	0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH2	BH2.1	0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
	BH2.2	0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH3	BH3.1	0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
	BH3.2	0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH4	BH4.1	0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
	BH4.2	0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH5	BH5.1	0-0.15	Fill loamy CLAY (CL-CI): soft to firm, low plasticity, brown and grey, fine to medium grained sand, with fine sized gravel, dry, (plant roots).
BH6	BH6.1	0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
	BH6.2	0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH7	BH7.1	0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
	BH7.2	0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH8	BH8.1	0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
	BH8.2	0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH9	BH9.1	0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).

	BH9.2	0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH10		0-0.15	Fill loamy CLAY (CL-CI): soft to firm, low plasticity, brown and grey, fine to medium grained sand, with fine sized gravel, dry, (plant roots).
BH11		0-0.15	Fill loamy CLAY (CL-CI): soft to firm, low plasticity, brown and grey, fine to medium grained sand, with fine sized gravel, dry, (plant roots).
BH12		0-0.15	Fill loamy CLAY (CL-CI): soft to firm, low plasticity, brown and grey, fine to medium grained sand, with fine sized gravel, dry, (plant roots).
BH13		0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
		0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH14		0-0.15	Fill loamy CLAY (CL-CI): soft to firm, low plasticity, brown and grey, fine to medium grained sand, with fine sized gravel, dry, (plant roots).
BH15		0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
		0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH16		0-0.15	Fill loamy CLAY (CL-CI): soft to firm, low plasticity, brown and grey, fine to medium grained sand, with fine sized gravel, dry, (plant roots).
BH17		0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
		0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH18		0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
		0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH19		0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
		0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH20		0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).

	0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH21	0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
	0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH22	0-0.15	Fill loamy CLAY (CL-CI): firm, low to medium plasticity, brown, fine to medium grained sand, with fine sized gravel, moist, (plant roots).
	0.4-0.5	Natural CLAY (CL): stiff, low plasticity, brown, orange, fine grained sand, trace fine sized gravel, low moisture.
BH23	0-0.15	Fill loamy CLAY (CL-CI): soft to firm, low plasticity, brown and grey, fine to medium grained sand, with fine sized gravel, dry, (plant roots).
BH24	0-0.15	Fill loamy CLAY (CL-CI): soft to firm, low plasticity, brown and grey, fine to medium grained sand, with fine sized gravel, dry, (plant roots).

10.4 Field Quality Assurance & Quality Control Procedures

Table 16. Field Quality Assurance & Quality Control Procedures.

	Measure	Purpose
Field	Decontamination procedures	Prevent cross contamination between samples.
	Appropriate preservation and storage measures	Samples stored using laboratory prepared glass jars with Teflon lid inserts. Prevent cross contamination and analyte loss for volatile compounds.
	Use of trip spike and trip blank	To evaluate the effectiveness of sample storage and COC procedures. Trip spikes contain volatile mix (BTEX) and will indicate volatility loss during sampling event. Trip spike contain clean laboratory washed sand and will indicate of cross contamination occurs during sampling event.
	Collection of intra-laboratory samples and statement of frequency	To measure variations in contamination concentration between a primary and intra-laboratory sample.
	Field instrument calibrations	Ensure valid results from instruments through routine calibration.
Laboratory	Chain-of-Custody procedures	A copy of signed chain-of-custody forms acknowledging receipt date, time and temperature and identity of samples included in shipments will ensure validity of results.
	Record of holding times	To ensure samples are analysed within reasonable window of receival to prevent analyte loss for volatile compounds.

	Matrix spikes (MS)	Indicate percentage of recovery of a known concentration for a spike in field sub-sample to measure recovery.
	Laboratory Control Sample (LCS)	Reference used throughout the full method process from extraction to injection to measure recovery of analytes.
	Relative Percentage Differences (RPD)	Calculation of laboratory performance for the analytical methods. Must be within 30% difference from primary sample results.

11. Data Quality Objectives (DQOs)

The DQOs have been developed in accordance with the NEPM Appendix B of Schedule B2 and provide the type, quantity and quality of data to support decisions regarding the environmental conditions of this site.

Table 17. Data Quality Objectives

Step 1: State the problem	Potentially contaminated fill materials imported and deposited on-site. Potential contamination from historical on-site operation. Potential contamination from onsite and neighbouring structures.
Step 2: Identify the decision/goal of the study	• Was the sampling, analysis and quality plan designed appropriate to achieve the aim of the DSI? • If present, is on-site contamination capable of migrating off-site? • Are there any unacceptable risks to the future on site or off-site receptors in the soil or groundwater? • Is the site suitable for the proposed development?
Step 3: Identify the information inputs	• Appropriate identification of CoPC; • Soil sampling and analysis programs across the site; • Appropriate quality assurance/quality control to enable an evaluation of the reliability of the analytical data; and • Screening sampler analytical results against appropriate assessment criteria for the intended land use.
Step 4: Define the boundaries of the study	• Lateral boundary: The boundaries of the site itself; • Vertical boundary: The soil interface to the maximum depth reached during soil sampling; and • Temporal boundary: Constrained to a single visit to the site.
Step 5: Develop the analytical approach	• Any exceedance of the adopted NEPM Residential (A) Assessment Criteria for soil or groundwater; • Professional opinion that further assessment is required; • Adopted RPD (max. 30% difference for inorganics and max. 50% difference for organics) for QC data not met; • If analytes are in exceedance of the LOR in method blanks; • if RPDs of matrix spikes, surrogates and laboratory control samples are outside acceptable limits. Further assessment may be required to confirm suitability of the site for use a medical centre.

Step 6: Specify performance or acceptance criteria	• Acceptable recovery on all surrogate spikes, trip spike and trip blanks used in laboratory analyses; • Acceptable analytical method to ensure detection limit appropriate for all analytes; • If these conditions are not met, then chemical analysis will require re-testing for all samples with fresh aliquot.
Step 7: Optimise the design for obtaining data	Judgemental sampling pattern within the AEC will provide suitable coverage of the site to produce reliable data in alignment with the Data Quality Indicators (DQIs) to cover precision, accuracy, representativeness, completeness and comparability (PARCC). This sampling pattern will ensure that critical locations are assessed and analysed appropriately for COPC.

12. Analytical Results

12.1 Soil Analytical Results

Soil analytical results indicate exceedances of the NEPM 2013 Assessment Criteria for the following analytes:

- Benzo(a)pyrene (NEPM 2013 ESL, 0.7mg/kg)
    - BH19.1 (3 mg/kg)

No other exceedances of the NEPM 2013 Assessment Criteria for Residential (A) sites were detected.

Additionally, nitrates were analysed for samples within close proximity to septic tanks for screening purposes (no relevant Assessment Criteria for nitrates in soils). The concentration of nitrates, <0.61mg/kg, do not suggest toxicity. Healthy levels of nitrate in pasture soils are approximated at 10mg/kg (DPI).

12.2 Quality Assurance / Quality Control (QA/QC) Sampling

The following soil QA/QC samples were undertaken for the site:

- Three (3) intra-laboratory samples;
- One (1) rinsate;
- One (1) trip spike;
- One (1) trip blank.

All QA/QC sample results were within acceptable ranges.

Table 18. Intra-laboratory samples.

Analytes	Relative Percentage Difference (RPD)		
	Duplicate 1 (BH1.2)	Duplicate 2 (BH8.2)	Duplicate 3 (BH17.2)
Total Hydrocarbons	<50%	<50%	<50%
Total Pesticides	<30%	<30%	<30%
Total Metals	<30%	<30%	<30%

Table 19. Trip blank and spike

Sample	Response
Rinsate	<LOR
Trip Spike	<LOR
Trip Blank	97-100%

13. Data Quality Indicators

Table 20. Field Data Quality Indicators

Completeness	• All critical locations sampled with GPS co-ordinates; • Correct documentation and COC procedures undertaken; • Collection during a single visit to the site. Based on the completion of these considerations, the percentage of usable data can be calculated. All considerations have been met therefore all data generated (laboratory-based) is applicable to site characterisation (100%).
Comparability	• Uniform methods for sample collection including collection equipment and decontamination procedures; • Correct volume of soil per sample; • Climatic and physical conditions at the time of sample collection recorded. These considerations provide qualitative confidence that the data reflects the site conditions. Sample collection and volume were undertaken in accordance with the methods with no deviation, site conditions did not impede sample collection.
Representativeness	• Appropriate sample collection; • Fill material sampled for analysis; • Samples homogenised during collection. These considerations provide qualitative confidence that the data reflects the site conditions. Sample collection satisfied these considerations and are reflective of site conditions.
Precision	• Intra-laboratory sample • Rinsate • Trip spike • Trip blank Field QA/QC samples provide a quantitative measure of laboratory precision and laboratory QA/QC samples provide a quantitative measure of analytical precision. These data measure variability between samples. The % RPD will be considered acceptable if the values are less than 30% (NEPC, 2013). Should there be a result that is greater than 30% difference, then a "review should be conducted of the cause (e.g. instrument calibration, appropriateness of method used, volatile hydrocarbon consideration, contaminant bound)" (NEPC, 2013).
Accuracy	• Correct documentation and COC procedures undertaken including appropriate transportation; • Collection during a single visit to the site; • Decontamination procedures undertaken between each sample collection.

	These considerations provide a quantitative measure of bias within the dataset (following laboratory analyses). Field work processes to mitigate bias were undertaken, analytical results will provide measure of accuracy of these processes.

Table 21. Laboratory Data Quality Indicators

Completeness	• Correct documentation and COC procedures will be undertaken; • Analysis of appropriate analytes as outlined; • Implementation of appropriate instrument methods; • Samples to be received and analysed within specified holding times; These considerations were undertaken and allows the percentage of usable data was calculated. Along with the field-based *Completeness* (100%), the dataset can be considered complete (100%).
Comparability	• Appropriate analytical methods, including instrument calibration; • Justify and quantify differences in analytical results. These considerations provide qualitative confidence that the data reflects the site conditions. All considerations were undertaken.
Representativeness	• Correct documentation and COC procedures undertaken; • Implementation of appropriate instrument methods; • Samples received and analysed within specified holding times; • Internal methods ensure detection of laboratory artefacts including contaminated equipment, cross-contamination events; These considerations provide qualitative confidence that the data reflects the site conditions. All considerations were undertaken.
Precision	• Analysis of: o Intra-laboratory sample o Rinsate o Trip spike o Trip blank Laboratory QA/QC sample provides a quantitative measure of analytical precision. These data measure variability between samples, all analysed were within acceptable ranges.
Accuracy	• Analysis of: o Intra-laboratory sample o Rinsate o Trip spike o Trip blank These considerations provide a quantitative measure of bias within the dataset, analytical results were within acceptable ranges.

14. Data Gaps

NEO Consulting have identified the following data gaps for the site;

- Hazardous materials within onsite structures; and
- Details and plans for the proposed rezoning of the site.

15. Conclusion

Soil analytical results indicate no exceedances of the NEPM 2013 Health and Ecological Assessment Criteria for Residential (A) sites, with the exception of Benzo(a)pyrene (BaP) in the uppermost fill at location BH19. The PCA undertaken by Qualtest (December 2019, *NEW19P-0184-AA*) states that builders rubble including bricks and tiles were found at this location.

The NEPM provides a low reliability guideline value for Benzo(a)pyrene (BaP) compared with the higher reliability ecological guidelines. The NEPM 2013 ESL for BaP is 0.7mg/kg (low reliability). The Derived Ecological Guideline (DEG) (95% confidence limits) is 33mg/kg (high reliability) and the Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines for Environmental Health (SQGE) 2010 is 20mg/kg (high reliability). In this case the CCME SQGE will be applied as the primary criteria for BaP levels, due to superior reliability.

Based on the site investigation and analytical results, NEO Consulting considers the potential for significant contamination of on-site soil to be low. NEO Consulting finds that the site can be considered suitable for the proposed development and Residential (A) use, providing that the recommendations within **Section 16** of this report are undertaken.

16. Recommendations

Based on the information collected and available during this investigation, the following recommendations have been made:

- Hazardous Materials Survey to be undertaken on onsite structures prior to demolition.
- The demolition of structures and excavation activity on site be undertaken in accordance with relevant Australian Standards, SafeWork NSW codes of practice and any other applicable requirements;
- Any soils requiring excavation, on-site reuse and/or removal must be classified in accordance with "Waste Classification Guidelines Part 1: Classifying Waste" NSW EPA (2014).

Limitations

The findings of this report are based on the Scope of Work outlined in Section 2. NEO Consulting performed the services in a manner consistent with the normal level of care and expertise exercised by members of the environmental consulting profession. No warranties, express or implied are made.

The results of this assessment are based upon the information documented and presented in this report. All conclusions and recommendations regarding the site are the professional opinions of NEO Consulting personnel involved with the project, subject to the qualifications made above. While normal assessments of data reliability have been made, NEO Consulting assumes no responsibility or liability for errors in any data obtained from regulatory agencies, statements from sources outside of NEO Consulting, or developments resulting from situations outside the scope of this project.

The results of this assessment are based on the site conditions identified at the time of the site inspection and validation sampling. NEO Consulting will not be liable to revise the report to account for any changes in site characteristics, regulatory requirements, assessment criteria or the availability of additional information, subsequent to the issue date of this report.

NEO Consulting is not engaged in environmental consulting and reporting for the purpose of advertising sales promoting, or endorsement of any client interests, including raising investment capital, recommending investment decisions, or other publicity purposes.

NEO CONSULTING

Oskar Lamperts

Environmental Consultant

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Project Manager

APPENDIX A

Figures and Photographic Log

Figure 1. The site is located approximately 21.84km north-east of Sydney's CBD.

Site location

Source: Six Maps 2023

Figure 1	Locality Map
Project	46-54 Ferodale Road, Medowie NSW 2318

Sample plan:

16 locations: two samples (top and bottom fill, visual inspection of natural)

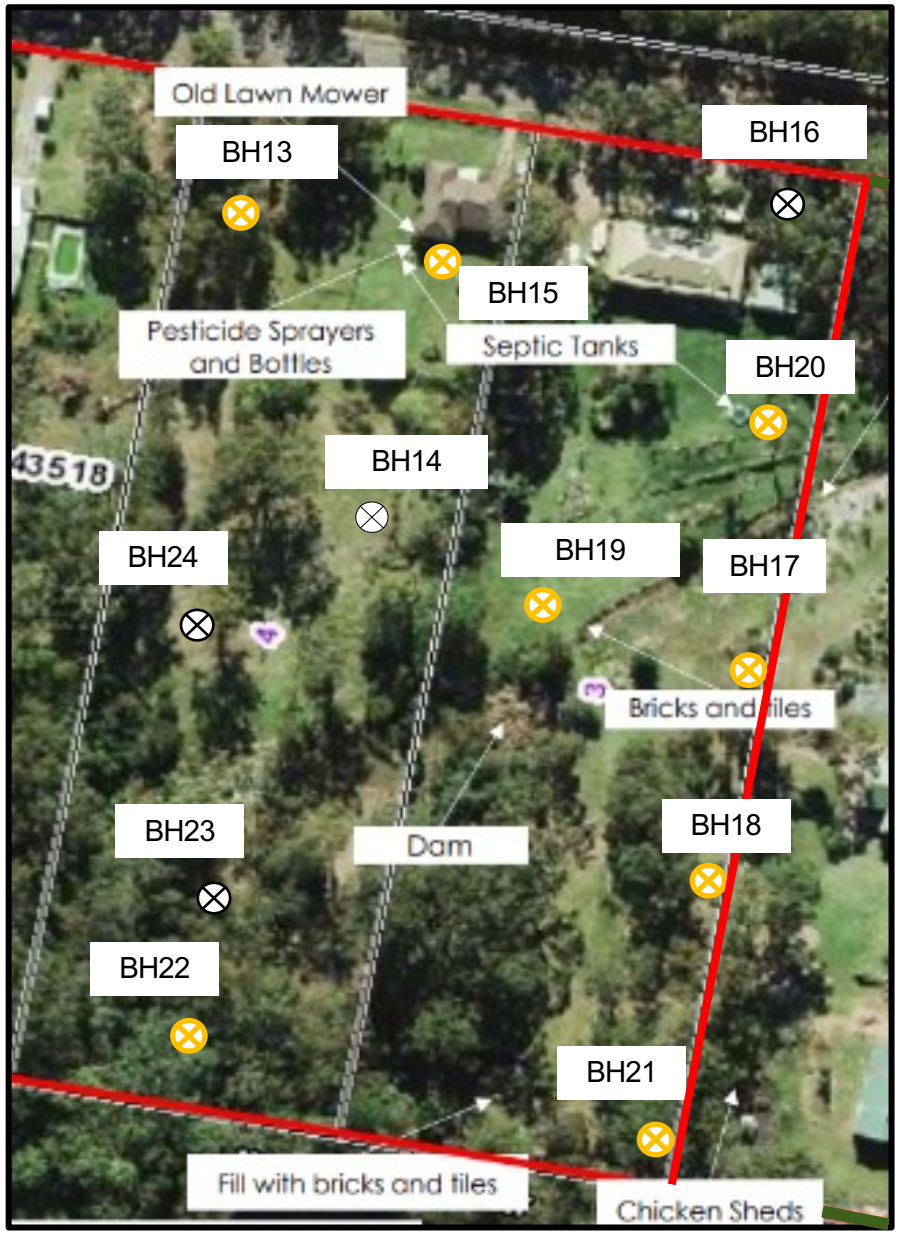
8 locations: (areas furthest from AECs) one sample taken from top of fill.

⊗ Soil Sample Location (Uppermost section of Fill)

⊗ Soil Sample Location (Uppermost and bottom sections of Fill)

Source: Six Maps 2023

Figure 2.1	Site Map & Sample Locations
Project	46-54 Ferodale Road, Medowie NSW 2318



⊗ Soil Sample Location (Uppermost section of Fill)

⊗ Soil Sample Location (Uppermost and bottom sections of Fill)

Source: Six Maps 2023

Figure 2.2	Site Map & Sample Locations
Project	46-54 Ferodale Road, Medowie NSW 2318

N

Figure 4. Aerial image of the site and surrounding area 1954. The site appears to be undeveloped land covered in native vegetation and trees What will become Lot 7 appears to be cleared as does some of Lot 8.

Source: Department of Finance, Innovation and Services

Figure 4	Aerial Image 1954
Project	46-54 Ferodale Road, Medowie NSW 2318

N

Figure 5. Aerial image of the site and surrounding area 1966. The site appears to be similar to the previous photograph. Two structures appear to have been built on inferred Lot 7 with access off Ferodale Road. There doesn't appear to be any additional land clearing.

Source: Department of Finance, Innovation and Services

Figure 5	Aerial Image 1966
Project	46-54 Ferodale Road, Medowie NSW 2318

Figure 6. Aerial image of the site and surrounding area 1975. Additional land clearing has occurred in the inferred Lot 8 and to the east (inferred Lot 4). A rectangular cleared area is also present on Lot 7 surrounding the two structures. No clearing has occurred in the central part of the site (inferred Lots 5 and 6) or to the east (inferred Lot 3 and 2). Two structures appear to be present at the north eastern boundary of the inferred Lot 4.

Source: Department of Finance, Innovation and Services

Figure 6	Aerial Image 1975
Project	46-54 Ferodale Road, Medowie NSW 2318

N

Figure 7. Aerial image of the site and surrounding area 1984. The inferred Lots 7, Lot 6, Lot 5, Lot 3 and Lot 2, appear similar to the previous aerial photo. Lots 8 and 4 appear to have additional mature vegetation.

Source: Department of Finance, Innovation and Services

Figure 7	Aerial Image 1984
Project	46-54 Ferodale Road, Medowie NSW 2318

Figure 8. Aerial image of the site and surrounding area 1993. t 8 appears to have been cleared with access off Medowie Road. A structure is been built on this Lot. Inferred Lot 6, Lot 3 and Lot 2 have also been cleared with access off Ferodale Road. Inferred Lot 5 appears to be vacant and uncleared. Inferred Lot 6 has 2 structures located in north of the Lot. The inferred Lot 3 has one large structure in north and a dam in the south. The inferred Lot 2 has a structure located near the southern Lot boundary.

Source: Department of Finance, Innovation and Services

Figure 8	Aerial Image 1993
Project	46-54 Ferodale Road, Medowie NSW 2318

Figure 9. Aerial image of the site and surrounding area 2010. The inferred Lot 5 has been cleared and has a structure built in the northern portion fronting Ferodale Road. There is an additional structure on inferred Lot 2, with access from Ferodale Road.

Source: Department of Finance, Innovation and Services

Figure 9	Aerial Image 2010
Project	46-54 Ferodale Road, Medowie NSW 2318

Figure 10. Aerial image of the site and surrounding area 2019. The site appears similar to the previous photograph with more mature vegetation cover than the previous aerial photograph.

Source: Department of Finance, Innovation and Services

Figure 10	Aerial Image 2019
Project	46-54 Ferodale Road, Medowie NSW 2318

Figures 11 & 12: House and sheds at no. 46 Ferodale Street.

Figures 13 & 14. Backyard/garden and soils at no. 48 Ferodale Road.

Figure 15 & 16. Loamy clays found in test pits

Figures 17 & 18. Clay-rich natural soils found at no. 52 Ferodale Street.

Figures 19 & 20. Onsite structures and unsealed surfaces at 754 Medowie Road.

Figures 21 & 22. Sampling program undertaken onsite

Figure 23. Garden found at no. 54 Ferodale Road.

Figure 24. Septic tank at no. 54 Ferodale Road.

Figure 25. Cuvert and Dam at no 52 Ferodale Road.

Figure 26. Woodchip and mulch piles near the southern site boundary.

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APPENDIX B

Laboratory Results and Chain of Custody (NATA)

Table 21. Total Recoverable Hydrocarbon (TRH) analytical results. Values are presented as mg/kg. NL = Not Limiting.

Assessment Criteria		TRH C_6-C_{10}	TRH C_6-C_{10} - BTEX (F1)	TRH >C_{10}-C_{16}	TRH >C_{10}-C_{16} - N (F2)	TRH >C_{16}-C_{34} (F3)	TRH >C_{34}-C_{40} (F4)
NEPM 2013 Residential Soil HSL-A for Vapour Intrusion, 0-<1m depth, Clay, mg/kg			50		280		
NEPM 2013 Soil Generic ESL for Urban, Residential and Public Open Spaces, fine-grained soil, mg/kg		180		120		1300	5600
NEPM 2013 Management Limits for Residential, Parkland and Public Open Space, fine-grained soil, mg/kg		800		1000		3500	10 000
Sample	Depth (m)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH1.1	0-0.15	<25	<25	<25	<25	<90	<120
BH1.2	0.4-0.5	<25	<25	<25	<25	<90	<120
BH2.1	0-0.15	<25	<25	<25	<25	**110**	<120
BH2.2	0.4-0.5	<25	<25	<25	<25	<90	<120
BH3.1	0-0.15	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH3.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH4.1	0-0.15	<25	<25	<25	<25	<90	<120
BH4.2	0.4-0.5	<25	<25	<25	<25	<90	<120
BH5.1	0-0.15	<25	<25	<25	<25	<90	<120
BH6.1	0-0.15	<25	<25	<25	<25	<90	<120
BH6.2	0.4-0.5	<25	<25	<25	<25	<90	<120
BH7.1	0-0.15	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH7.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH8.1	0-0.15	<25	<25	<25	<25	<90	<120
BH8.2	0.4-0.5	<25	<25	<25	<25	<90	<120
BH9.1	0-0.15	<25	<25	**49**	**49**	**330**	<120
BH9.2	0.4-0.5	<25	<25	<25	<25	**100**	<120
BH10.1	0-0.15	<25	<25	<25	<25	<90	<120
BH11.1	0-0.15	<25	<25	<25	<25	<90	<120
BH12.1	0-0.15	<25	<25	<25	<25	<90	<120
BH13.1	0-0.15	<25	<25	<25	<25	<90	<120

BH13.2	0.4-0.5	<25	<25	<25	<25	<90	<120
BH14.1	0-0.15	<25	<25	<25	<25	**100**	<120
BH15.1	0-0.15	<25	<25	<25	<25	<90	<120
BH15.2	0.4-0.5	<25	<25	<25	<25	<90	<120
BH16.1	0-0.15	<25	<25	<25	<25	<90	<120
BH17.1	0-0.15	<25	<25	<25	<25	<90	<120
BH17.2	0.4-0.5	<25	<25	<25	<25	<90	<120
BH18.1	0-0.15	<25	<25	<25	<25	<90	<120
BH18.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH19.1	0-0.15	<25	<25	<25	<25	<90	<120
BH19.2	0.4-0.5	<25	<25	<25	<25	<90	<120
BH20.1	0-0.15	<25	<25	<25	<25	<90	<120
BH20.2	0.4-0.5	<25	<25	<25	<25	<90	<120
BH21.1	0-0.15	<25	<25	<25	<25	<90	<120
BH21.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH22.1	0-0.15	<25	<25	<25	<25	<90	<120
BH22.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BH23.1	0-0.15	<25	<25	<25	<25	<90	<120
BH24.1	0-0.15	<25	<25	<25	<25	<90	<120
D1	0.4-0.5	<25	<25	<25	<25	<90	<120
D2	0.4-0.5	<25	<25	<25	<25	<90	<120
D3	0.4-0.5	<25	<25	<25	<25	<90	<120

Table 22. Benzene, Toluene, Ethylbenzene and Xylene (BTEX) analytical results. Values are presented as mg/kg. NL = Not Limiting.

Assessment Criteria		Benzene	Toluene	Ethylbenzene	Xylenes
NEPM 2013 Residential Soil HSL-A for Vapour Intrusion, 0-<1m depth, Clay, mg/kg		0.7	480	NL	110
NEPM 2013 Soil ESL for Urban, Residential and Public Open Spaces, fine-grained soil, mg/kg		65	105	125	45
Sample	Depth (m)	mg/kg	mg/kg	mg/kg	mg/kg
BH1.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH1.2	0.4-0.5	<0.1	<0.1	<0.1	<0.3
BH2.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH2.2	0.4-0.5	<0.1	<0.1	<0.1	<0.3
BH3.1	0-0.15	N.A.	N.A.	N.A.	N.A.
BH3.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.
BH4.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH4.2	0.4-0.5	<0.1	<0.1	<0.1	<0.3
BH5.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH6.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH6.2	0.4-0.5	<0.1	<0.1	<0.1	<0.3
BH7.1	0-0.15	N.A.	N.A.	N.A.	N.A.
BH7.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.
BH8.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH8.2	0.4-0.5	<0.1	<0.1	<0.1	<0.3
BH9.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH9.2	0.4-0.5	<0.1	<0.1	<0.1	<0.3
BH10.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH11.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH12.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH13.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH13.2	0.4-0.5	<0.1	<0.1	<0.1	<0.3

BH14.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH15.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH15.2	0.4-0.5	<0.1	<0.1	<0.1	<0.3
BH16.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH17.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH17.2	0.4-0.5	<0.1	<0.1	<0.1	<0.3
BH18.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH18.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.
BH19.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH19.2	0.4-0.5	<0.1	<0.1	<0.1	<0.3
BH20.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH20.2	0.4-0.5	<0.1	<0.1	<0.1	<0.3
BH21.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH21.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.
BH22.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH22.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.
BH23.1	0-0.15	<0.1	<0.1	<0.1	<0.3
BH24.1	0-0.15	<0.1	<0.1	<0.1	<0.3
D1	0.4-0.5	<0.1	<0.1	<0.1	<0.3
D2	0.4-0.5	<0.1	<0.1	<0.1	<0.3
D3	0.4-0.5	<0.1	<0.1	<0.1	<0.3
Trip Spike		[97%]	[100%]	[99%]	N.A.
Trip Blank		<0.1	<0.1	<0.1	<0.3

Table 23. Polycyclic Aromatic Hydrocarbon (PAH) analytical results.

Assessment Criteria		Naphthalene	Benzo(a)pyrene	Carcinogenic PAH (as BaP TEQ)	Total PAH (18)
NEPM 2013 Residential Soil HSL-A for Vapour Intrusion, 0-<1m depth, Clay, mg/kg		5			
NEPM 2013 Soil Generic EIL for Urban Residential and Public Open Space, mg/kg		170			
Soil ESL for Urban, Residential and Public Open Spaces, fine-grained soil, mg/kg			0.7		
NEPM 2013 Residential Soil HIL-A, mg/kg			1.00 TEF	3	300
Sample	Depth (m)	mg/kg	mg/kg	TEQ (mg/kg)	mg/kg
BH1.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH1.2	0.4-0.5	<0.1	<0.1	<0.3	<0.8
BH2.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH2.2	0.4-0.5	<0.1	<0.1	<0.3	<0.8
BH3.1	0-0.15	N.A.	N.A.	N.A.	N.A.
BH3.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.
BH4.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH4.2	0.4-0.5	<0.1	<0.1	<0.3	**0.9**
BH5.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH6.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH6.2	0.4-0.5	<0.1	<0.1	<0.3	<0.8
BH7.1	0-0.15	N.A.	N.A.	N.A.	N.A.
BH7.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.
BH8.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH8.2	0.4-0.5	<0.1	<0.1	<0.3	<0.8
BH9.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH9.2	0.4-0.5	<0.1	<0.1	<0.3	<0.8
BH10.1	0-0.15	<0.1	<0.1	<0.3	<0.8

BH11.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH12.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH13.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH13.2	0.4-0.5	<0.1	<0.1	<0.3	<0.8
BH14.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH15.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH15.2	0.4-0.5	<0.1	<0.1	<0.3	<0.8
BH16.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH17.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH17.2	0.4-0.5	<0.1	<0.1	<0.3	<0.8
BH18.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH18.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.
BH19.1	0-0.15	<0.1	**1.6**	**2.5**	**24**
BH19.2	0.4-0.5	<0.1	<0.1	<0.3	<0.8
BH20.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH20.2	0.4-0.5	<0.1	<0.1	<0.3	<0.8
BH21.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH21.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.
BH22.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH22.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.
BH23.1	0-0.15	<0.1	<0.1	<0.3	<0.8
BH24.1	0-0.15	<0.1	<0.1	<0.3	<0.8
D1	0.4-0.5	<0.1	<0.1	<0.3	<0.8
D2	0.4-0.5	<0.1	<0.1	<0.3	<0.8
D3	0.4-0.5	<0.1	<0.1	<0.3	<0.8

Table 24. Heavy Metal analytical results. Values are presented as mg/kg.

Assessment Criteria		Arsenic, As	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Nickel, Ni	Zinc, Zn	Mercury, Hg
NEPM 2013 Residential Soil HIL-A, mg/kg		100	20	100	6000	300	400	7400	40
NEPM 2013 Soil Generic EIL for Urban Residential and Public Open Space, mg/kg		100				1100			
Sample	Depth (m)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH1.1	0-0.15	**2**	<0.3	**33**	<0.5	**8**	**1.7**	**12**	<0.05
BH1.2	0.4-0.5	**2**	<0.3	**45**	<0.5	**6**	**2.0**	**5.0**	<0.05
BH2.1	0-0.15	**2**	<0.3	**18**	**4.8**	**17**	**4.0**	**26**	<0.05
BH2.2	0.4-0.5	**2**	<0.3	**20**	**5.4**	**18**	**3.7**	**25**	<0.05
BH3.1	0-0.15	N.A.	N.A.	N.A.	N.A.	**7**	N.A.	N.A.	N.A.
BH3.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.	**5**	N.A.	N.A.	N.A.
BH4.1	0-0.15	**1**	<0.3	**22**	**1.2**	**10**	**2.4**	**9.8**	<0.05
BH4.2	0.4-0.5	**2**	<0.3	**24**	**1.4**	**10**	**2.9**	**13**	<0.05
BH5.1	0-0.15	**2**	<0.3	**16**	**2.8**	**9**	**2.7**	**22**	<0.05
BH6.1	0-0.15	**3**	<0.3	**65**	**3.0**	**22**	**2.0**	**130**	<0.05
BH6.2	0.4-0.5	**3**	<0.3	**58**	<0.5	**8**	**2.4**	**11**	<0.05
BH7.1	0-0.15	N.A.	N.A.	N.A.	N.A.	**11**	N.A.	N.A.	N.A.
BH7.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.	**7**	N.A.	N.A.	N.A.
BH8.1	0-0.15	**2**	<0.3	**46**	**1.1**	**14**	**1.8**	**16**	<0.05
BH8.2	0.4-0.5	**3**	<0.3	**68**	<0.5	**9**	**2.1**	**7.0**	<0.05
BH9.1	0-0.15	**3**	<0.3	**24**	**1.6**	**12**	**1.5**	**22**	<0.05
BH9.2	0.4-0.5	**2**	<0.3	**30**	**0.9**	**9**	**1.5**	**6.4**	<0.05
BH10.1	0-0.15	**2**	<0.3	**29**	<0.5	**8**	**1.4**	**8.4**	<0.05
BH11.1	0-0.15	<1	<0.3	**20**	<0.5	**6**	**2.4**	<2	<0.05
BH12.1	0-0.15	<1	<0.3	**16**	<0.5	**7**	**2.0**	**3.9**	<0.05
BH13.1	0-0.15	**5**	<0.3	**32**	<0.5	**10**	**0.9**	**8.5**	<0.05

BH13.2	0.4-0.5	**3**	<0.3	**18**	<0.5	**5**	<0.5	**2.5**	**0.09**
BH14.1	0-0.15	**2**	<0.3	**22**	**1.7**	**9**	**1.6**	**17**	<0.05
BH15.1	0-0.15	**3**	<0.3	**15**	**3.6**	**15**	**1.6**	**49**	<0.05
BH15.2	0.4-0.5	**3**	<0.3	**26**	**1.9**	**15**	**1.5**	**30**	<0.05
BH16.1	0-0.15	**10**	<0.3	**15**	**0.6**	**8**	**2.1**	**12**	<0.05
BH17.1	0-0.15	**3**	<0.3	**37**	<0.5	**8**	**1.8**	**5.8**	<0.05
BH17.2	0.4-0.5	**8**	<0.3	**81**	<0.5	**14**	**1.1**	**8.7**	<0.05
BH18.1	0-0.15	**2**	<0.3	**35**	<0.5	**7**	**4.4**	**4.4**	<0.05
BH18.2	0.4-0.5	**3**	<0.3	**52**	<0.5	**8**	**6.1**	**5.0**	<0.05
BH19.1	0-0.15	**2**	<0.3	**29**	**1.9**	**12**	**5.4**	**12**	<0.05
BH19.2	0.4-0.5	**2**	<0.3	**39**	<0.5	**6**	**4.0**	**6.1**	<0.05
BH20.1	0-0.15	**2**	<0.3	**1.4**	<0.5	**3**	**1.3**	**2.5**	<0.05
BH20.2	0.4-0.5	**2**	<0.3	**35**	<0.5	**7**	**1.8**	**7.0**	<0.05
BH21.1	0-0.15	**2**	<0.3	**41**	<0.5	**7**	**6.0**	**9.1**	**0.06**
BH21.2	0.4-0.5	**3**	<0.3	**48**	<0.5	**7**	**5.6**	**4.3**	<0.05
BH22.1	0-0.15	**2**	<0.3	**33**	<0.5	**6**	**3.3**	**7.5**	<0.05
BH22.2	0.4-0.5	N.A.	N.A.	N.A.	N.A.	**7**	N.A.	N.A.	N.A.
BH23.1	0-0.15	**2**	<0.3	**34**	<0.5	**7**	**3.8**	**4.1**	<0.05
BH24.1	0-0.15	<1	<0.3	**35**	<0.5	**9**	**1.9**	**6.1**	<0.05
D1	0.4-0.5	**2**	<0.3	**40**	<0.5	**6**	**2.3**	**5.1**	<0.05
D2	0.4-0.5	**5**	<0.3	**69**	<0.5	**12**	**1.9**	**6.7**	<0.05
D3	0.4-0.5	**7**	<0.3	**76**	<0.5	**14**	<0.5	**8.0**	**0.07**

Table 25. Pesticides analytical results. Values are presented as mg/kg.

Assessment Criteria		HCB	Heptachlor	Chlordane	Aldrin & Dieldrin	Endrin	DDT	DDD+DDE +DDT	Endosulfan	Methoxychlor	Mirex
NEPM 2013 Residential Soil HIL-A, mg/kg		10	6	50	6	10		240	270	300	10
NEPM 2013 Soil Generic EIL for Urban Residential and Public Open Space, mg/kg							180				
Sample	Depth (m)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BH1.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH1.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH2.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH2.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH3.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH3.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH4.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH4.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH5.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH6.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH6.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH7.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH7.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH8.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH8.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH9.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH9.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH10.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH11.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH12.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH13.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH13.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1

BH14.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH15.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH15.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH16.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH17.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH17.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH18.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH18.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH19.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH19.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH20.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH20.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH21.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH21.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH22.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH22.2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH23.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
BH24.1	0-0.15	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
D1	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
D2	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1
D3	0.4-0.5	<0.1	<0.2	<0.2	<0.3	<0.2	<0.2	<0.6	<0.5	<0.1	<0.1

Table 26. Asbestos analytical results.

Asbestos HSL-A		Detection	ACM 0.01%w/w	AF/FA 0.001%w/w
Sample	Depth (m)	Yes/No	%w/w	%w/w
BH1.1	0-0.15	No	<0.01	<0.001
BH2.1	0-0.15	No	<0.01	<0.001
BH3.1	0-0.15	No	<0.01	<0.001
BH4.1	0-0.15	No	<0.01	<0.001
BH5.1	0-0.15	No	<0.01	<0.001
BH6.1	0-0.15	No	<0.01	<0.001
BH7.1	0-0.15	No	<0.01	<0.001
BH8.1	0-0.15	No	<0.01	<0.001
BH9.1	0-0.15	No	<0.01	<0.001
BH10.1	0-0.15	No	<0.01	<0.001
BH11.1	0-0.15	No	<0.01	<0.001
BH12.1	0-0.15	No	<0.01	<0.001
BH13.1	0-0.15	No	<0.01	<0.001
BH14.1	0-0.15	No	<0.01	<0.001
BH15.1	0-0.15	No	<0.01	<0.001
BH16.1	0-0.15	No	<0.01	<0.001
BH17.1	0-0.15	No	<0.01	<0.001
BH18.1	0-0.15	No	<0.01	<0.001
BH19.1	0-0.15	No	<0.01	<0.001
BH20.1	0-0.15	No	<0.01	<0.001
BH21.1	0-0.15	No	<0.01	<0.001
BH22.1	0-0.15	No	<0.01	<0.001
BH23.1	0-0.15	No	<0.01	<0.001
BH24.1	0-0.15	No	<0.01	<0.001

Table 27. Nitrate levels in soil samples

Note: there are presently no relevant NEPM guidelines for Nitrate levels in soil. These results have been included only to give a general indication of nitrate levels, as nitrates are only dangerous in high concentrations. The levels returned do not indicate dangerous levels of nitrates in soils.

Sample	Depth (m)	Nitrate (mg/kg)
BH4.1	0-0.15	0.35
BH4.2	0.4-0.5	0.61
BH20.1	0-0.15	<0.05
BH20.2	0.4-0.5	<0.05

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

'ence)

SGS EHS Sydney COC

SE251074

Company Name:	Neo Consulting Pty Ltd	Project Name/No:	N6382
Address:	186 Riverstone Parade	Purchase Order No:	**QUOTE NUMER: 322722**
	Riverstone NSW 2765	Results Required Date:	Next Day/3 day/**Standard**
		Telephone:	0416680375 Fax:
Contact Name:	Nick Caltabiano	Email Results and invoices to :	nick@neoconsulting, admin@neoconsulting, oskar@neoconsulting, sarah@neoconsulting, eshan@neocon
Quotation No:			

SG S ID	Client Sample ID	Sampling Date/ Time	Matrix (Tick as appropriate) Soil Sample	Water Sample	Other_Cartridge_	NO. OF CONTAINERS	ANALYSIS REQUESTED NEO 1	NEO 2	NEO 3	NEO 4	Asbestos NEPM 500g	Nitrates	Asbestos I.D	TRH	PAH	Metals	Lead	Pesticides (OPPs & OCPs)	Additional Report Forr / Notes/Guidelines/LC Special instruction
1	BH1.1	19/07/2023	x			2		X			x								500g bags submitted for
2	BH1.2	14/07/2023	x			1		X											asbestos testing
3	BH2.1	14/07/2023	x			2		X			x								
4	BH2.2	14/07/2023	x			1		X											
5	BH3.1	14/07/2023	x			2					x						x		
6	BH3.2	14/07/2023	x			1											x		
7	BH4.1		x			2		x			x	x							
8	BH4.2		x			1		x				x							
9	BH5.1					2		X			X								
10	BH6.1					2		X					x						
11	BH6.2					1		x											
12	BH7.1					2					x						x		

Additional Report Forr
- ☐ NEPM
- ☐ CSV
- ☐ ESDAT
- ☐ DQO
- ☐ GO, Guidelines ----------
- ☐ Others _____

Relinquished By: Jacob King	Date/Time: **20/07/2023**	Received By:	Date/Time: 20.7.23 17:50
Relinquished By:	Date/Time:	Received By:	Date/Time:
Samples Intact: Yes / No	Temperature: 8.6 °C	Sample Security Sealed: Yes / No	Hazards: *e.g. may contain Asbestos*

Comments / Subcontracting details:

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

Lab ID Number: *(please quote on correspondence)*

Company Name:	Neo Consulting Pty Ltd	Project Name/No:	N6382
Address:	186 Riverstone Parade	Purchase Order No:	**QUOTE NUMER: 322722**
	Riverstone NSW 2765	Results Required Date:	Next Day/3 day/**Standard**
		Telephone:	0416680375 Fax:
Contact Name:	Nick Caltabiano	Email Results and invoices to :	nick@neoconsulting, admin@neoconsulting,
Quotation No:			oskar@neoconsulting, sarah@neoconsulting, eshan@neocon

SG S ID	Client Sample ID	Sampling Date/ Time	Matrix (Tick as appropriate) Soil Sample	Water Sample	Other_Cartridge_	NO. OF CONTAINERS	ANALYSIS REQUESTED NEO 1	NEO 2	NEO 3	NEO 4	Asbestos NEPM 500g.	Asbestos I.D.	BTEX	TRH	PAH	Metals	Lead	Pesticides (OPPs & OCPs)	Additional Report Form / Notes/Guidelines/LC Special instruction
13	BH7.2	19/07/2023	x			1											x		500g bags submitted for asbestos testing
14	BH8.1	19/07/2023	x			2		x			x								
15	BH8.2	19/07/2023	x			1		x											
16	BH9.1	19/07/2023	X			2		x			x								
17	BH9.2	19/07/2023	x			1		x											
18	BH10.1	19/07/2023	X			2		x				X							
19	BH11.1	19/07/2023	X			2		x				X							
20	BH12.1	19/07/2023	x			2		x				X							
21	BH13.1	19/07/2023	X			2		X			X								
22	BH13.2	19/07/2023	X			1		X											
23	BH14.1	19/07/2023	x			2		x				x							
24	BH15.1	19/07/2023	x			2		x			x								

Additional Report Form:
- ☐ NEPM
- ☐ CSV
- ☐ ESDAT
- ☐ DQO
- ☐ GO, Guidelines ---------
- ☐ Others _____

Relinquished By: Jacob King	Date/Time: **20/07/2023**	Received By:	Date/Time: 20-7-23 11.50
Relinquished By:	Date/Time:	Received By:	Date/Time:
Samples Intact: ~~Yes~~ / No	Temperature: 8.6 °C	Sample Security Sealed: ~~Yes~~ / No	Hazards: *e.g. may contain Asbestos*

Comments / Subcontracting details:

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

Lab ID Number: *(please quote on correspondence)*

Company Name:	Neo Consulting Pty Ltd	Project Name/No:	N6382
Address:	186 Riverstone Parade	Purchase Order No:	**QUOTE NUMER: 322722**
	Riverstone NSW 2765	Results Required Date:	Next Day/3 day/**Standard**
		Telephone:	0416680375 Fax:
Contact Name:	Nick Caltabiano	Email Results and invoices to :	nick@neoconsulting, admin@neoconsulting, oskar@neoconsulting, sarah@neoconsulting, eshan@neocon
Quotation No:			

SG S ID	Client Sample ID	Sampling Date/ Time	Matrix (Tick as appropriate) Soil Sample	Water Sample	Other_Cartridge__	NO. OF CONTAINERS	ANALYSIS REQUESTED NEO 1	NEO 2	NEO 3	NEO 4	Asbestos NEPM 500g.	Asbestos I.D.	Nitrates	TRH	PAH	Metals	Lead	Pesticides (OPPs & OCPs)	Additional Report Form / Notes/Guidelines/LC Special instruction
25	BH15.2	19/07/2023	x			1		x											500g bags submitted for asbestos testing
26	BH16.1	19/07/2023	x			2		x			x								
27	BH17.1	19/07/2023	X			2		X			x								
28	BH17.2	19/07/2023	x			1		x											
29	BH18.1	19/07/2023	X			2		X				X							
30	BH18.2	19/07/2023	x			1										X			
31	BH19.1	19/07/2023	X			2		X				x							
32	BH19.2	19/07/2023	x			1		X											
33	BH20.1	19/07/2023	X			2		X			X		x						
34	BH20.2	19/07/2023	x			1		x					x						
35	BH21.1	19/07/2023	X			2		X				x							
36	BH21.2	19/07/2023	x			1										x			

Additional Report Form:
- ☐ NEPM
- ☐ CSV
- ☐ ESDAT
- ☐ DQO
- ☐ GO, Guidelines ------
- ☐ Others _____

Relinquished By: Jacob King	Date/Time: **20/07/2023**	Received By:	Date/Time: 20.7.23 11:50
Relinquished By:	Date/Time:	Received By:	Date/Time:
Samples Intact: Yes / No	Temperature: 8.4 °C	Sample Security Sealed: Yes / No	Hazards: *e.g. may contain Asbestos*

Comments / Subcontracting details:

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

Lab ID Number: *(please quote on correspondence)*

Company Name:	Neo Consulting Pty Ltd	Project Name/No:	N6382
Address:	186 Riverstone Parade	Purchase Order No:	**QUOTE NUMER: 322722**
	Riverstone NSW 2765	Results Required Date:	Next Day/3 day/**Standard**
		Telephone:	0416680375 Fax:
Contact Name:	Nick Caltabiano	Email Results and invoices to :	nick@neoconsulting, admin@neoconsulting, oskar@neoconsulting, sarah@neoconsulting, eshan@neocon
Quotation No:			

SG S ID	Client Sample ID	Sampling Date/ Time	Matrix (Tick as appropriate) Soil Sample	Water Sample	Other_Cartridge	NO. OF CONTAINERS	ANALYSIS REQUESTED NEO 1	NEO 2	NEO 3	NEO 4	Asbestos NEPM 500g.	Asbestos I.D.	BTEX	TRH	PAH	Metals	Lead	Pesticides (OPPs & OCPs)	Notes/Guidelines/LC Special instruction
37	BH22.1	19/07/2023	X			2		x				x							500g bags submitted for
38	BH22.2	19/07/2023	x			1											x		asbestos testing
39	BH23.1	19/07/2023	x			2		x				x							
40	BH24.1	19/07/2023	x			2		x				x							
41	D1	19/07/2023	X			1		X											
42	D2	19/07/2023	x			1		X											
43	D3	19/07/2023	x			1		X											
44	Trip Spike		x			1							X						
45	Trip Blank		X			1							X						
46	Rinsate	19/07/2023		x		1		x											

Additional Report For
- ☐ NEPM
- ☐ CSV
- ☐ ESDAT
- ☐ DQO
- ☐ GO, Guidelines ——
- ☐ Others ——

Relinquished By: Jacob King	Date/Time: **20/07/2023**	Received By:	Date/Time: 20.7.23 11.50
Relinquished By:	Date/Time:	Received By:	Date/Time:
Samples Intact: Yes / No	Temperature: 8.6 °C	Sample Security Sealed: Yes / No	Hazards: *e.g. may contain Asbestos*

Comments / Subcontracting details:

Yin, Emily (Sydney)

From: Oskar Lamperts <oskar@neoconsulting.com.au>
Sent: Monday, 24 July 2023 12:56 PM
To: AU.SampleReceipt.Sydney, AU (Sydney)
Cc: nick caltabiano; Sarah Houlahan; Luong, Thi Song Van (Sydney)
Subject: Re: FW: [EXTERNAL] COC N6382 (Medowie) - SE251074

Hi team,

All samples were taken on the 19th, sorry for the confusion.

Kind regards

On Mon, Jul 24, 2023 at 12:35 PM AU.SampleReceipt.Sydney, AU (Sydney) <AU.SampleReceipt.Sydney@sgs.com> wrote:

> Dear All,
>
> Please advise if all samples were sampled on 19/7/23 or some on 14/7/23.
>
> Please advise Sampling date for BH4, BH5, BH6 and BH7.1.
>
> Thank You.
>
> Regards,
>
> **Emily Yin**
>
> **Environment, Health & Safety**
> Sample Receipt
>
> **SGS Australia Pty Ltd**
>
> Unit 16, 33 Maddox Street
>
> Alexandria NSW 2015

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Admin
Client	NEO CONSULTING PTY LTD
Address	PO BOX 279 RIVERSTONE NSW 2765
Telephone	0416 680 375
Facsimile	(Not specified)
Email	admin@neoconsulting.com.au
Project	**N6382**
Order Number	**N6382**
Samples	46

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	**SE251074 R0**
Date Received	20/7/2023
Date Reported	27/7/2023

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.
Sample #10,18,19,20.23,29,31,35,37,39,40: A portion of the sample supplied has been sub-sampled for asbestos analysis in soil according to SGS In-house procedures due to large volume. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Industries and Environment recommends supplying approximately 50-100g of sample in a separate container.
Asbestos analysed by Approved Identifier Yusuf Kuthpudin

VPH - Sample # 46 Not Tested due to no sample provided.

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Ly Kim HA
Organic Section Head

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

Shane MCDERMOTT
Inorganic/Metals Chemist

VOC's in Soil [AN433] Tested: 24/7/2023

PARAMETER	UOM	LOR	BH1.1 SOIL - 19/7/2023 SE251074.001	BH1.2 SOIL - 19/7/2023 SE251074.002	BH2.1 SOIL - 19/7/2023 SE251074.003	BH2.2 SOIL - 19/7/2023 SE251074.004	BH4.1 SOIL - 19/7/2023 SE251074.007
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	BH4.2 SOIL - 19/7/2023 SE251074.008	BH5.1 SOIL - 19/7/2023 SE251074.009	BH6.1 SOIL - 19/7/2023 SE251074.010	BH6.2 SOIL - 19/7/2023 SE251074.011	BH8.1 SOIL - 19/7/2023 SE251074.014
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	BH8.2 SOIL - 19/7/2023 SE251074.015	BH9.1 SOIL - 19/7/2023 SE251074.016	BH9.2 SOIL - 19/7/2023 SE251074.017	BH10.1 SOIL - 19/7/2023 SE251074.018	BH11.1 SOIL - 19/7/2023 SE251074.019
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	BH12.1 SOIL - 19/7/2023 SE251074.020	HB13.1 SOIL - 19/7/2023 SE251074.021	BH13.2 SOIL - 19/7/2023 SE251074.022	BH14.1 SOIL - 19/7/2023 SE251074.023	BH15.1 SOIL - 19/7/2023 SE251074.024
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

VOC's in Soil [AN433] Tested: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH15.2 SOIL - 19/7/2023 SE251074.025	BH16.1 SOIL - 19/7/2023 SE251074.026	BH17.1 SOIL - 19/7/2023 SE251074.027	BH17.2 SOIL - 19/7/2023 SE251074.028	BH18.1 SOIL - 19/7/2023 SE251074.029
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	BH19.1 SOIL - 19/7/2023 SE251074.031	BH19.2 SOIL - 19/7/2023 SE251074.032	BH20.1 SOIL - 19/7/2023 SE251074.033	BH20.2 SOIL - 19/7/2023 SE251074.034	BH21.1 SOIL - 19/7/2023 SE251074.035
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
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	BH22.1 SOIL - 19/7/2023 SE251074.037	BH23.1 SOIL - 19/7/2023 SE251074.039	BH24.1 SOIL - 19/7/2023 SE251074.040	D1 SOIL - 19/7/2023 SE251074.041	D2 SOIL - 19/7/2023 SE251074.042
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	D3 SOIL - 19/7/2023 SE251074.043	Trip Spike SOIL - 19/7/2023 SE251074.044	Trip Blank SOIL - 19/7/2023 SE251074.045
Benzene	mg/kg	0.1	<0.1	[97%]	<0.1
Toluene	mg/kg	0.1	<0.1	[100%]	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	[99%]	<0.1
m/p-xylene	mg/kg	0.2	<0.2	[102%]	<0.2
o-xylene	mg/kg	0.1	<0.1	[101%]	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	-	<0.3
Total BTEX*	mg/kg	0.6	<0.6	-	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	-	<0.1

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 24/7/2023

PARAMETER	UOM	LOR	BH1.1 SOIL - 19/7/2023 SE251074.001	BH1.2 SOIL - 19/7/2023 SE251074.002	BH2.1 SOIL - 19/7/2023 SE251074.003	BH2.2 SOIL - 19/7/2023 SE251074.004	BH4.1 SOIL - 19/7/2023 SE251074.007
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH4.2 SOIL - 19/7/2023 SE251074.008	BH5.1 SOIL - 19/7/2023 SE251074.009	BH6.1 SOIL - 19/7/2023 SE251074.010	BH6.2 SOIL - 19/7/2023 SE251074.011	BH8.1 SOIL - 19/7/2023 SE251074.014
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH8.2 SOIL - 19/7/2023 SE251074.015	BH9.1 SOIL - 19/7/2023 SE251074.016	BH9.2 SOIL - 19/7/2023 SE251074.017	BH10.1 SOIL - 19/7/2023 SE251074.018	BH11.1 SOIL - 19/7/2023 SE251074.019
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH12.1 SOIL - 19/7/2023 SE251074.020	HB13.1 SOIL - 19/7/2023 SE251074.021	BH13.2 SOIL - 19/7/2023 SE251074.022	BH14.1 SOIL - 19/7/2023 SE251074.023	BH15.1 SOIL - 19/7/2023 SE251074.024
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH15.2 SOIL - 19/7/2023 SE251074.025	BH16.1 SOIL - 19/7/2023 SE251074.026	BH17.1 SOIL - 19/7/2023 SE251074.027	BH17.2 SOIL - 19/7/2023 SE251074.028	BH18.1 SOIL - 19/7/2023 SE251074.029
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH19.1 SOIL - 19/7/2023 SE251074.031	BH19.2 SOIL - 19/7/2023 SE251074.032	BH20.1 SOIL - 19/7/2023 SE251074.033	BH20.2 SOIL - 19/7/2023 SE251074.034	BH21.1 SOIL - 19/7/2023 SE251074.035
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH22.1 SOIL - 19/7/2023 SE251074.037	BH23.1 SOIL - 19/7/2023 SE251074.039	BH24.1 SOIL - 19/7/2023 SE251074.040	D1 SOIL - 19/7/2023 SE251074.041	D2 SOIL - 19/7/2023 SE251074.042
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	D3 SOIL - 19/7/2023 SE251074.043
TRH C6-C9	mg/kg	20	<20
Benzene (F0)	mg/kg	0.1	<0.1
TRH C6-C10	mg/kg	25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 24/7/2023

PARAMETER	UOM	LOR	BH1.1 SOIL - 19/7/2023 SE251074.001	BH1.2 SOIL - 19/7/2023 SE251074.002	BH2.1 SOIL - 19/7/2023 SE251074.003	BH2.2 SOIL - 19/7/2023 SE251074.004	BH4.1 SOIL - 19/7/2023 SE251074.007
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	**48**	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	**98**	**71**	**51**
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	**150**	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH4.2 SOIL - 19/7/2023 SE251074.008	BH5.1 SOIL - 19/7/2023 SE251074.009	BH6.1 SOIL - 19/7/2023 SE251074.010	BH6.2 SOIL - 19/7/2023 SE251074.011	BH8.1 SOIL - 19/7/2023 SE251074.014
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	BH8.2 SOIL - 19/7/2023 SE251074.015	BH9.1 SOIL - 19/7/2023 SE251074.016	BH9.2 SOIL - 19/7/2023 SE251074.017	BH10.1 SOIL - 19/7/2023 SE251074.018	BH11.1 SOIL - 19/7/2023 SE251074.019
TRH C10-C14	mg/kg	20	<20	**40**	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	**220**	**58**	<45	<45
TRH C29-C36	mg/kg	45	<45	**200**	**71**	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	**49**	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	**49**	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	**330**	**100**	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	**460**	**130**	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	**380**	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH12.1 SOIL - 19/7/2023 SE251074.020	HB13.1 SOIL - 19/7/2023 SE251074.021	BH13.2 SOIL - 19/7/2023 SE251074.022	BH14.1 SOIL - 19/7/2023 SE251074.023	BH15.1 SOIL - 19/7/2023 SE251074.024
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	**77**	<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	**100**	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH15.2 SOIL - 19/7/2023 SE251074.025	BH16.1 SOIL - 19/7/2023 SE251074.026	BH17.1 SOIL - 19/7/2023 SE251074.027	BH17.2 SOIL - 19/7/2023 SE251074.028	BH18.1 SOIL - 19/7/2023 SE251074.029
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	BH19.1 SOIL - 19/7/2023 SE251074.031	BH19.2 SOIL - 19/7/2023 SE251074.032	BH20.1 SOIL - 19/7/2023 SE251074.033	BH20.2 SOIL - 19/7/2023 SE251074.034	BH21.1 SOIL - 19/7/2023 SE251074.035
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	**58**	<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: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH22.1 SOIL - 19/7/2023 SE251074.037	BH23.1 SOIL - 19/7/2023 SE251074.039	BH24.1 SOIL - 19/7/2023 SE251074.040	D1 SOIL - 19/7/2023 SE251074.041	D2 SOIL - 19/7/2023 SE251074.042
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	D3 SOIL - 19/7/2023 SE251074.043
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-C16	mg/kg	25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120
TRH C10-C36 Total	mg/kg	110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 24/7/2023

PARAMETER	UOM	LOR	BH1.1 SOIL - 19/7/2023 SE251074.001	BH1.2 SOIL - 19/7/2023 SE251074.002	BH2.1 SOIL - 19/7/2023 SE251074.003	BH2.2 SOIL - 19/7/2023 SE251074.004	BH4.1 SOIL - 19/7/2023 SE251074.007
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	BH4.2 SOIL - 19/7/2023 SE251074.008	BH5.1 SOIL - 19/7/2023 SE251074.009	BH6.1 SOIL - 19/7/2023 SE251074.010	BH6.2 SOIL - 19/7/2023 SE251074.011	BH8.1 SOIL - 19/7/2023 SE251074.014
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	**0.3**	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	**0.3**	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	**0.1**	<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	**0.9**	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	**0.9**	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH8.2 SOIL - 19/7/2023 SE251074.015	BH9.1 SOIL - 19/7/2023 SE251074.016	BH9.2 SOIL - 19/7/2023 SE251074.017	BH10.1 SOIL - 19/7/2023 SE251074.018	BH11.1 SOIL - 19/7/2023 SE251074.019
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	BH12.1 SOIL - 19/7/2023 SE251074.020	HB13.1 SOIL - 19/7/2023 SE251074.021	BH13.2 SOIL - 19/7/2023 SE251074.022	BH14.1 SOIL - 19/7/2023 SE251074.023	BH15.1 SOIL - 19/7/2023 SE251074.024
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	**0.2**	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	**0.2**	<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: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH15.2 SOIL - 19/7/2023 SE251074.025	BH16.1 SOIL - 19/7/2023 SE251074.026	BH17.1 SOIL - 19/7/2023 SE251074.027	BH17.2 SOIL - 19/7/2023 SE251074.028	BH18.1 SOIL - 19/7/2023 SE251074.029
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	**0.2**	<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	BH19.1 SOIL - 19/7/2023 SE251074.031	BH19.2 SOIL - 19/7/2023 SE251074.032	BH20.1 SOIL - 19/7/2023 SE251074.033	BH20.2 SOIL - 19/7/2023 SE251074.034	BH21.1 SOIL - 19/7/2023 SE251074.035
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	**1.5**	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	**0.2**	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	**6.3**	**0.1**	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	**5.1**	**0.1**	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	**1.8**	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	**2.0**	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	**2.3**	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	**1.0**	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	**1.6**	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	**1.3**	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	**0.2**	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	**1.2**	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	**2.5**	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	**2.5**	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	**2.5**	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	**24**	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	**24**	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH22.1 SOIL - 19/7/2023 SE251074.037	BH23.1 SOIL - 19/7/2023 SE251074.039	BH24.1 SOIL - 19/7/2023 SE251074.040	D1 SOIL - 19/7/2023 SE251074.041	D2 SOIL - 19/7/2023 SE251074.042
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	D3 SOIL - 19/7/2023 SE251074.043
Naphthalene	mg/kg	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1
Fluorene	mg/kg	0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1
Pyrene	mg/kg	0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1
Chrysene	mg/kg	0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8

OC Pesticides in Soil [AN420] Tested: 24/7/2023

PARAMETER	UOM	LOR	BH1.1 SOIL - 19/7/2023 SE251074.001	BH1.2 SOIL - 19/7/2023 SE251074.002	BH2.1 SOIL - 19/7/2023 SE251074.003	BH2.2 SOIL - 19/7/2023 SE251074.004	BH4.1 SOIL - 19/7/2023 SE251074.007
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: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH4.2 SOIL - 19/7/2023 SE251074.008	BH5.1 SOIL - 19/7/2023 SE251074.009	BH6.1 SOIL - 19/7/2023 SE251074.010	BH6.2 SOIL - 19/7/2023 SE251074.011	BH8.1 SOIL - 19/7/2023 SE251074.014
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: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH8.2 SOIL - 19/7/2023 SE251074.015	BH9.1 SOIL - 19/7/2023 SE251074.016	BH9.2 SOIL - 19/7/2023 SE251074.017	BH10.1 SOIL - 19/7/2023 SE251074.018	BH11.1 SOIL - 19/7/2023 SE251074.019
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: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH12.1 SOIL - 19/7/2023 SE251074.020	HB13.1 SOIL - 19/7/2023 SE251074.021	BH13.2 SOIL - 19/7/2023 SE251074.022	BH14.1 SOIL - 19/7/2023 SE251074.023	BH15.1 SOIL - 19/7/2023 SE251074.024
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: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH15.2 SOIL - 19/7/2023 SE251074.025	BH16.1 SOIL - 19/7/2023 SE251074.026	BH17.1 SOIL - 19/7/2023 SE251074.027	BH17.2 SOIL - 19/7/2023 SE251074.028	BH18.1 SOIL - 19/7/2023 SE251074.029
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: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH19.1 SOIL - 19/7/2023 SE251074.031	BH19.2 SOIL - 19/7/2023 SE251074.032	BH20.1 SOIL - 19/7/2023 SE251074.033	BH20.2 SOIL - 19/7/2023 SE251074.034	BH21.1 SOIL - 19/7/2023 SE251074.035
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: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH22.1 SOIL - 19/7/2023 SE251074.037	BH23.1 SOIL - 19/7/2023 SE251074.039	BH24.1 SOIL - 19/7/2023 SE251074.040	D1 SOIL - 19/7/2023 SE251074.041	D2 SOIL - 19/7/2023 SE251074.042
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: 24/7/2023 (continued)

PARAMETER	UOM	LOR	D3 SOIL - 19/7/2023 SE251074.043
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1
Aldrin	mg/kg	0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2
Endrin	mg/kg	0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1
Isodrin	mg/kg	0.1	<0.1
Mirex	mg/kg	0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1
Total OC VIC EPA	mg/kg	1	<1

OP Pesticides in Soil [AN420] Tested: 24/7/2023

PARAMETER	UOM	LOR	BH1.1 SOIL - 19/7/2023 SE251074.001	BH1.2 SOIL - 19/7/2023 SE251074.002	BH2.1 SOIL - 19/7/2023 SE251074.003	BH2.2 SOIL - 19/7/2023 SE251074.004	BH4.1 SOIL - 19/7/2023 SE251074.007
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH4.2 SOIL - 19/7/2023 SE251074.008	BH5.1 SOIL - 19/7/2023 SE251074.009	BH6.1 SOIL - 19/7/2023 SE251074.010	BH6.2 SOIL - 19/7/2023 SE251074.011	BH8.1 SOIL - 19/7/2023 SE251074.014
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH8.2 SOIL - 19/7/2023 SE251074.015	BH9.1 SOIL - 19/7/2023 SE251074.016	BH9.2 SOIL - 19/7/2023 SE251074.017	BH10.1 SOIL - 19/7/2023 SE251074.018	BH11.1 SOIL - 19/7/2023 SE251074.019
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: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH12.1 SOIL - 19/7/2023 SE251074.020	HB13.1 SOIL - 19/7/2023 SE251074.021	BH13.2 SOIL - 19/7/2023 SE251074.022	BH14.1 SOIL - 19/7/2023 SE251074.023	BH15.1 SOIL - 19/7/2023 SE251074.024
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	BH15.2 SOIL - 19/7/2023 SE251074.025	BH16.1 SOIL - 19/7/2023 SE251074.026	BH17.1 SOIL - 19/7/2023 SE251074.027	BH17.2 SOIL - 19/7/2023 SE251074.028	BH18.1 SOIL - 19/7/2023 SE251074.029
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	BH19.1 SOIL - 19/7/2023 SE251074.031	BH19.2 SOIL - 19/7/2023 SE251074.032	BH20.1 SOIL - 19/7/2023 SE251074.033	BH20.2 SOIL - 19/7/2023 SE251074.034	BH21.1 SOIL - 19/7/2023 SE251074.035
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: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH22.1 SOIL - 19/7/2023 SE251074.037	BH23.1 SOIL - 19/7/2023 SE251074.039	BH24.1 SOIL - 19/7/2023 SE251074.040	D1 SOIL - 19/7/2023 SE251074.041	D2 SOIL - 19/7/2023 SE251074.042
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	D3 SOIL - 19/7/2023 SE251074.043
Dichlorvos	mg/kg	0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2
Malathion	mg/kg	0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2
Methidathion	mg/kg	0.5	<0.5
Ethion	mg/kg	0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7

Soluble Anions (1:5) in Soil/Solids by Ion Chromatography [AN245] Tested: 26/7/2023

PARAMETER	UOM	LOR	BH4.1 SOIL - 19/7/2023 SE251074.007	BH4.2 SOIL - 19/7/2023 SE251074.008	BH20.1 SOIL - 19/7/2023 SE251074.033	BH20.2 SOIL - 19/7/2023 SE251074.034
Nitrate Nitrogen	mg/kg	0.05	**0.35**	**0.61**	<0.05	<0.05

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/7/2023

PARAMETER	UOM	LOR	BH1.1 SOIL - 19/7/2023 SE251074.001	BH1.2 SOIL - 19/7/2023 SE251074.002	BH2.1 SOIL - 19/7/2023 SE251074.003	BH2.2 SOIL - 19/7/2023 SE251074.004	BH3.1 SOIL - 19/7/2023 SE251074.005
Arsenic, As	mg/kg	1	2	2	2	2	-
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	-
Chromium, Cr	mg/kg	0.5	33	45	18	20	-
Copper, Cu	mg/kg	0.5	<0.5	<0.5	4.8	5.4	-
Lead, Pb	mg/kg	1	8	6	17	18	7
Nickel, Ni	mg/kg	0.5	1.7	2.0	4.0	3.7	-
Zinc, Zn	mg/kg	2	12	5.0	26	25	-

PARAMETER	UOM	LOR	BH3.2 SOIL - 19/7/2023 SE251074.006	BH4.1 SOIL - 19/7/2023 SE251074.007	BH4.2 SOIL - 19/7/2023 SE251074.008	BH5.1 SOIL - 19/7/2023 SE251074.009	BH6.1 SOIL - 19/7/2023 SE251074.010
Arsenic, As	mg/kg	1	-	1	2	2	3
Cadmium, Cd	mg/kg	0.3	-	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	-	22	24	16	65
Copper, Cu	mg/kg	0.5	-	1.2	1.4	2.8	3.0
Lead, Pb	mg/kg	1	5	10	10	9	22
Nickel, Ni	mg/kg	0.5	-	2.4	2.9	2.7	2.0
Zinc, Zn	mg/kg	2	-	9.8	13	22	130

PARAMETER	UOM	LOR	BH6.2 SOIL - 19/7/2023 SE251074.011	BH7.1 SOIL - 19/7/2023 SE251074.012	BH7.2 SOIL - 19/7/2023 SE251074.013	BH8.1 SOIL - 19/7/2023 SE251074.014	BH8.2 SOIL - 19/7/2023 SE251074.015
Arsenic, As	mg/kg	1	3	-	-	2	3
Cadmium, Cd	mg/kg	0.3	<0.3	-	-	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	58	-	-	46	68
Copper, Cu	mg/kg	0.5	<0.5	-	-	1.1	<0.5
Lead, Pb	mg/kg	1	8	11	7	14	9
Nickel, Ni	mg/kg	0.5	2.4	-	-	1.8	2.1
Zinc, Zn	mg/kg	2	11	-	-	16	7.0

PARAMETER	UOM	LOR	BH9.1 SOIL - 19/7/2023 SE251074.016	BH9.2 SOIL - 19/7/2023 SE251074.017	BH10.1 SOIL - 19/7/2023 SE251074.018	BH11.1 SOIL - 19/7/2023 SE251074.019	BH12.1 SOIL - 19/7/2023 SE251074.020
Arsenic, As	mg/kg	1	3	2	2	<1	<1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	24	30	29	20	16
Copper, Cu	mg/kg	0.5	1.6	0.9	<0.5	<0.5	<0.5
Lead, Pb	mg/kg	1	12	9	8	6	7
Nickel, Ni	mg/kg	0.5	1.5	1.5	1.4	2.4	2.0
Zinc, Zn	mg/kg	2	22	6.4	8.4	<2.0	3.9

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/7/2023

(continued)

PARAMETER	UOM	LOR	HB13.1 SOIL - 19/7/2023 SE251074.021	BH13.2 SOIL - 19/7/2023 SE251074.022	BH14.1 SOIL - 19/7/2023 SE251074.023	BH15.1 SOIL - 19/7/2023 SE251074.024	BH15.2 SOIL - 19/7/2023 SE251074.025
Arsenic, As	mg/kg	1	5	3	2	3	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	32	18	22	15	26
Copper, Cu	mg/kg	0.5	<0.5	<0.5	1.7	3.6	1.9
Lead, Pb	mg/kg	1	10	5	9	15	15
Nickel, Ni	mg/kg	0.5	0.9	<0.5	1.6	1.6	1.5
Zinc, Zn	mg/kg	2	8.5	2.5	17	49	30

PARAMETER	UOM	LOR	BH16.1 SOIL - 19/7/2023 SE251074.026	BH17.1 SOIL - 19/7/2023 SE251074.027	BH17.2 SOIL - 19/7/2023 SE251074.028	BH18.1 SOIL - 19/7/2023 SE251074.029	BH18.2 SOIL - 19/7/2023 SE251074.030
Arsenic, As	mg/kg	1	10	3	8	2	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	15	37	81	35	52
Copper, Cu	mg/kg	0.5	0.6	<0.5	<0.5	<0.5	<0.5
Lead, Pb	mg/kg	1	8	8	14	7	8
Nickel, Ni	mg/kg	0.5	2.1	1.8	1.1	4.4	6.1
Zinc, Zn	mg/kg	2	12	5.8	8.7	4.4	5.0

PARAMETER	UOM	LOR	BH19.1 SOIL - 19/7/2023 SE251074.031	BH19.2 SOIL - 19/7/2023 SE251074.032	BH20.1 SOIL - 19/7/2023 SE251074.033	BH20.2 SOIL - 19/7/2023 SE251074.034	BH21.1 SOIL - 19/7/2023 SE251074.035
Arsenic, As	mg/kg	1	2	2	2	2	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	29	39	1.4	35	41
Copper, Cu	mg/kg	0.5	1.9	<0.5	<0.5	<0.5	<0.5
Lead, Pb	mg/kg	1	12	6	3	7	7
Nickel, Ni	mg/kg	0.5	5.4	4.0	1.3	1.8	6.0
Zinc, Zn	mg/kg	2	12	6.1	2.5	7.0	9.1

PARAMETER	UOM	LOR	BH21.2 SOIL - 19/7/2023 SE251074.036	BH22.1 SOIL - 19/7/2023 SE251074.037	BH22.2 SOIL - 19/7/2023 SE251074.038	BH23.1 SOIL - 19/7/2023 SE251074.039	BH24.1 SOIL - 19/7/2023 SE251074.040
Arsenic, As	mg/kg	1	3	2	-	2	<1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	-	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	48	33	-	34	35
Copper, Cu	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5
Lead, Pb	mg/kg	1	7	6	7	7	9
Nickel, Ni	mg/kg	0.5	5.6	3.3	-	3.8	1.9
Zinc, Zn	mg/kg	2	4.3	7.5	-	4.1	6.1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/7/2023

(continued)

PARAMETER	UOM	LOR	D1 SOIL - 19/7/2023 SE251074.041	D2 SOIL - 19/7/2023 SE251074.042	D3 SOIL - 19/7/2023 SE251074.043
Arsenic, As	mg/kg	1	**2**	**5**	**7**
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	**40**	**69**	**76**
Copper, Cu	mg/kg	0.5	<0.5	<0.5	<0.5
Lead, Pb	mg/kg	1	**6**	**12**	**14**
Nickel, Ni	mg/kg	0.5	**2.3**	**1.9**	<0.5
Zinc, Zn	mg/kg	2	**5.1**	**6.7**	**8.0**

Mercury in Soil [AN312] Tested: 24/7/2023

PARAMETER	UOM	LOR	BH1.1 SOIL - 19/7/2023 SE251074.001	BH1.2 SOIL - 19/7/2023 SE251074.002	BH2.1 SOIL - 19/7/2023 SE251074.003	BH2.2 SOIL - 19/7/2023 SE251074.004	BH4.1 SOIL - 19/7/2023 SE251074.007
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH4.2 SOIL - 19/7/2023 SE251074.008	BH5.1 SOIL - 19/7/2023 SE251074.009	BH6.1 SOIL - 19/7/2023 SE251074.010	BH6.2 SOIL - 19/7/2023 SE251074.011	BH8.1 SOIL - 19/7/2023 SE251074.014
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH8.2 SOIL - 19/7/2023 SE251074.015	BH9.1 SOIL - 19/7/2023 SE251074.016	BH9.2 SOIL - 19/7/2023 SE251074.017	BH10.1 SOIL - 19/7/2023 SE251074.018	BH11.1 SOIL - 19/7/2023 SE251074.019
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH12.1 SOIL - 19/7/2023 SE251074.020	HB13.1 SOIL - 19/7/2023 SE251074.021	BH13.2 SOIL - 19/7/2023 SE251074.022	BH14.1 SOIL - 19/7/2023 SE251074.023	BH15.1 SOIL - 19/7/2023 SE251074.024
Mercury	mg/kg	0.05	<0.05	<0.05	**0.09**	<0.05	<0.05

PARAMETER	UOM	LOR	BH15.2 SOIL - 19/7/2023 SE251074.025	BH16.1 SOIL - 19/7/2023 SE251074.026	BH17.1 SOIL - 19/7/2023 SE251074.027	BH17.2 SOIL - 19/7/2023 SE251074.028	BH18.1 SOIL - 19/7/2023 SE251074.029
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH18.2 SOIL - 19/7/2023 SE251074.030	BH19.1 SOIL - 19/7/2023 SE251074.031	BH19.2 SOIL - 19/7/2023 SE251074.032	BH20.1 SOIL - 19/7/2023 SE251074.033	BH20.2 SOIL - 19/7/2023 SE251074.034
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH21.1 SOIL - 19/7/2023 SE251074.035	BH21.2 SOIL - 19/7/2023 SE251074.036	BH22.1 SOIL - 19/7/2023 SE251074.037	BH23.1 SOIL - 19/7/2023 SE251074.039	BH24.1 SOIL - 19/7/2023 SE251074.040
Mercury	mg/kg	0.05	**0.06**	<0.05	<0.05	<0.05	<0.05

Mercury in Soil [AN312] Tested: 24/7/2023 (continued)

PARAMETER	UOM	LOR	D1 SOIL - 19/7/2023 SE251074.041	D2 SOIL - 19/7/2023 SE251074.042	D3 SOIL - 19/7/2023 SE251074.043
Mercury	mg/kg	0.05	<0.05	<0.05	**0.07**

Moisture Content [AN002] Tested: 24/7/2023

PARAMETER	UOM	LOR	BH1.1 SOIL - 19/7/2023 SE251074.001	BH1.2 SOIL - 19/7/2023 SE251074.002	BH2.1 SOIL - 19/7/2023 SE251074.003	BH2.2 SOIL - 19/7/2023 SE251074.004	BH3.1 SOIL - 19/7/2023 SE251074.005
% Moisture	%w/w	1	17.0	23.5	9.5	9.9	17.8

PARAMETER	UOM	LOR	BH3.2 SOIL - 19/7/2023 SE251074.006	BH4.1 SOIL - 19/7/2023 SE251074.007	BH4.2 SOIL - 19/7/2023 SE251074.008	BH5.1 SOIL - 19/7/2023 SE251074.009	BH6.1 SOIL - 19/7/2023 SE251074.010
% Moisture	%w/w	1	13.5	15.4	16.2	8.9	8.2

PARAMETER	UOM	LOR	BH6.2 SOIL - 19/7/2023 SE251074.011	BH7.1 SOIL - 19/7/2023 SE251074.012	BH7.2 SOIL - 19/7/2023 SE251074.013	BH8.1 SOIL - 19/7/2023 SE251074.014	BH8.2 SOIL - 19/7/2023 SE251074.015
% Moisture	%w/w	1	14.8	20.9	11.4	17.0	19.3

PARAMETER	UOM	LOR	BH9.1 SOIL - 19/7/2023 SE251074.016	BH9.2 SOIL - 19/7/2023 SE251074.017	BH10.1 SOIL - 19/7/2023 SE251074.018	BH11.1 SOIL - 19/7/2023 SE251074.019	BH12.1 SOIL - 19/7/2023 SE251074.020
% Moisture	%w/w	1	20.9	16.2	19.3	21.6	18.0

PARAMETER	UOM	LOR	HB13.1 SOIL - 19/7/2023 SE251074.021	BH13.2 SOIL - 19/7/2023 SE251074.022	BH14.1 SOIL - 19/7/2023 SE251074.023	BH15.1 SOIL - 19/7/2023 SE251074.024	BH15.2 SOIL - 19/7/2023 SE251074.025
% Moisture	%w/w	1	12.8	22.4	23.7	19.4	17.6

PARAMETER	UOM	LOR	BH16.1 SOIL - 19/7/2023 SE251074.026	BH17.1 SOIL - 19/7/2023 SE251074.027	BH17.2 SOIL - 19/7/2023 SE251074.028	BH18.1 SOIL - 19/7/2023 SE251074.029	BH18.2 SOIL - 19/7/2023 SE251074.030
% Moisture	%w/w	1	11.4	21.4	19.6	18.6	22.4

PARAMETER	UOM	LOR	BH19.1 SOIL - 19/7/2023 SE251074.031	BH19.2 SOIL - 19/7/2023 SE251074.032	BH20.1 SOIL - 19/7/2023 SE251074.033	BH20.2 SOIL - 19/7/2023 SE251074.034	BH21.1 SOIL - 19/7/2023 SE251074.035
% Moisture	%w/w	1	21.2	23.4	14.6	24.1	22.8

Moisture Content [AN002] Tested: 24/7/2023 (continued)

PARAMETER	UOM	LOR	BH21.2 SOIL - 19/7/2023 SE251074.036	BH22.1 SOIL - 19/7/2023 SE251074.037	BH22.2 SOIL - 19/7/2023 SE251074.038	BH23.1 SOIL - 19/7/2023 SE251074.039	BH24.1 SOIL - 19/7/2023 SE251074.040
% Moisture	%w/w	1	21.8	17.4	19.5	21.1	14.1

PARAMETER	UOM	LOR	D1 SOIL - 19/7/2023 SE251074.041	D2 SOIL - 19/7/2023 SE251074.042	D3 SOIL - 19/7/2023 SE251074.043	Trip Blank SOIL - 19/7/2023 SE251074.045
% Moisture	%w/w	1	22.8	18.4	16.7	<1.0

Fibre Identification in soil [AS4964/AN602] Tested: 25/7/2023

PARAMETER	UOM	LOR	BH1.1 SOIL - 19/7/2023 SE251074.001	BH2.1 SOIL - 19/7/2023 SE251074.003	BH3.1 SOIL - 19/7/2023 SE251074.005	BH4.1 SOIL - 19/7/2023 SE251074.007	BH5.1 SOIL - 19/7/2023 SE251074.009
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	BH6.1 SOIL - 19/7/2023 SE251074.010	BH7.1 SOIL - 19/7/2023 SE251074.012	BH8.1 SOIL - 19/7/2023 SE251074.014	BH9.1 SOIL - 19/7/2023 SE251074.016	BH10.1 SOIL - 19/7/2023 SE251074.018
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	BH11.1 SOIL - 19/7/2023 SE251074.019	BH12.1 SOIL - 19/7/2023 SE251074.020	HB13.1 SOIL - 19/7/2023 SE251074.021	BH14.1 SOIL - 19/7/2023 SE251074.023	BH15.1 SOIL - 19/7/2023 SE251074.024
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	BH16.1 SOIL - 19/7/2023 SE251074.026	BH17.1 SOIL - 19/7/2023 SE251074.027	BH18.1 SOIL - 19/7/2023 SE251074.029	BH19.1 SOIL - 19/7/2023 SE251074.031	BH20.1 SOIL - 19/7/2023 SE251074.033
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	BH21.1 SOIL - 19/7/2023 SE251074.035	BH22.1 SOIL - 19/7/2023 SE251074.037	BH23.1 SOIL - 19/7/2023 SE251074.039	BH24.1 SOIL - 19/7/2023 SE251074.040
Asbestos Detected	No unit	-	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01

Gravimetric Determination of Asbestos in Soil [AN605] Tested: 25/7/2023

PARAMETER	UOM	LOR	BH1.1 SOIL - 19/7/2023 SE251074.001	BH2.1 SOIL - 19/7/2023 SE251074.003	BH3.1 SOIL - 19/7/2023 SE251074.005	BH4.1 SOIL - 19/7/2023 SE251074.007	BH5.1 SOIL - 19/7/2023 SE251074.009
Total Sample Weight*	g	1	**569**	**841**	**563**	**701**	**757**
Bonded ACM in >7mm Sample*	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AF/FA in >2mm to <7mm Sample*	g	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
AF/FA in <2mm Sample*	g	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

PARAMETER	UOM	LOR	BH7.1 SOIL - 19/7/2023 SE251074.012	BH8.1 SOIL - 19/7/2023 SE251074.014	BH9.1 SOIL - 19/7/2023 SE251074.016	HB13.1 SOIL - 19/7/2023 SE251074.021	BH15.1 SOIL - 19/7/2023 SE251074.024
Total Sample Weight*	g	1	**557**	**653**	**577**	**681**	**677**
Bonded ACM in >7mm Sample*	g	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
AF/FA in >2mm to <7mm Sample*	g	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
AF/FA in <2mm Sample*	g	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD	NAD	NAD

PARAMETER	UOM	LOR	BH16.1 SOIL - 19/7/2023 SE251074.026	BH17.1 SOIL - 19/7/2023 SE251074.027	BH20.1 SOIL - 19/7/2023 SE251074.033
Total Sample Weight*	g	1	**831**	**563**	**847**
Bonded ACM in >7mm Sample*	g	0.001	<0.001	<0.001	<0.001
AF/FA in >2mm to <7mm Sample*	g	0.00001	<0.00001	<0.00001	<0.00001
AF/FA in <2mm Sample*	g	0.00001	<0.00001	<0.00001	<0.00001
Asbestos in soil (>7mm ACM)*	%w/w	0.01	<0.01	<0.01	<0.01
Asbestos in soil (>2mm to <7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001
Asbestos in soil (<2mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001
Asbestos in soil (<7mm AF/FA)*	%w/w	0.001	<0.001	<0.001	<0.001
Fibre Type*	No unit	-	NAD	NAD	NAD

VOCs in Water [AN433] Tested: 25/7/2023

PARAMETER	UOM	LOR	Rinsate WATER - 19/7/2023 SE251074.046
Benzene	µg/L	0.5	NT
Toluene	µg/L	0.5	NT
Ethylbenzene	µg/L	0.5	NT
m/p-xylene	µg/L	1	NT
o-xylene	µg/L	0.5	NT
Total Xylenes	µg/L	1.5	NT
Total BTEX	µg/L	3	NT
Naphthalene (VOC)*	µg/L	0.5	NT

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 25/7/2023

PARAMETER	UOM	LOR	Rinsate WATER - 19/7/2023 SE251074.046
TRH C6-C9	µg/L	40	NT
Benzene (F0)	µg/L	0.5	NT
TRH C6-C10	µg/L	50	NT
TRH C6-C10 minus BTEX (F1)	µg/L	50	NT

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 25/7/2023

PARAMETER	UOM	LOR	Rinsate WATER - 19/7/2023 SE251074.046
TRH C10-C14	µg/L	50	<50
TRH C15-C28	µg/L	200	<200
TRH C29-C36	µg/L	200	<200
TRH C37-C40	µg/L	200	<200
TRH >C10-C16	µg/L	60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60
TRH >C16-C34 (F3)	µg/L	500	<500
TRH >C34-C40 (F4)	µg/L	500	<500
TRH C10-C40	µg/L	320	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 25/7/2023

PARAMETER	UOM	LOR	Rinsate WATER - 19/7/2023 SE251074.046
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(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
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
Total PAH (18)	µg/L	1	<1

OC Pesticides in Water [AN420] Tested: 25/7/2023

PARAMETER	UOM	LOR	Rinsate WATER - 19/7/2023 SE251074.046
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
Alpha BHC	µg/L	0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1
Heptachlor	µg/L	0.1	<0.1
Aldrin	µg/L	0.1	<0.1
Beta BHC	µg/L	0.1	<0.1
Delta BHC	µg/L	0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1
trans-Nonachlor	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
o,p'-DDD	µg/L	0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1
Isodrin	µg/L	0.1	<0.1
Mirex	µg/L	0.1	<0.1
Total OC	µg/L	1	<1
Total OC	µg/L	1	<1

OP Pesticides in Water [AN420] Tested: 25/7/2023

PARAMETER	UOM	LOR	Rinsate WATER - 19/7/2023 SE251074.046
Dichlorvos	µg/L	0.5	<0.5
Dimethoate	µg/L	0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2
Malathion	µg/L	0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2
Methidathion	µg/L	0.5	<0.5
Ethion	µg/L	0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 25/7/2023

PARAMETER	UOM	LOR	Rinsate WATER - 19/7/2023 SE251074.046
Arsenic	µg/L	1	<1
Cadmium	µg/L	0.1	<0.1
Chromium	µg/L	1	<1
Copper	µg/L	1	<1
Lead	µg/L	1	<1
Nickel	µg/L	1	<1
Zinc	µg/L	5	<5

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 25/7/2023

PARAMETER	UOM	LOR	Rinsate WATER - 19/7/2023 SE251074.046
Mercury	mg/L	0.0001	<0.0001

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by AAS or ICP as per USEPA Method 200.8.
AN245	Anions by Ion Chromatography: A water sample is injected into an eluent stream that passes through the ion chromatographic system where the anions of interest ie Br, Cl, NO2, NO3 and SO4 are separated on their relative affinities for the active sites on the column packing material. Changes to the conductivity and the UV-visible absorbance of the eluent enable identification and quantitation of the anions based on their retention time and peak height or area. APHA 4110 B
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents .
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting .
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602/AS4964	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602/AS4964	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.

AN602/AS4964	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602/AS4964	The sample can be reported “no asbestos found at the reporting limit (RL) of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (a) no trace asbestos fibres have been detected (i.e. no ‘respirable’ fibres): (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.
AN605	This technique gravimetrically determines the mass of Bonded Asbestos Containing Material retained on a 7mm Sieve and assumes that 15% of this ACM is asbestos. This calculated asbestos weight is then calculated as a percentage of the total sample weight. Any fibrous asbestos (FA) found in this fraction will be added to the 2-7mm fraction and its mass recorded there.
AN605	This technique also gravimetrically determines the mass of Fibrous Asbestos (FA) and Asbestos Fines (AF) Containing Material retained on and passing a 2mm sieve post 7mm sieving. Assumes that FA and AF are 100% asbestos containing. This calculated asbestos weight is then calculated as a percentage of the total sample weight. This does not include free/respirable fibres which are only observed by standard trace analysis as per AN602.
AN605	Bonded asbestos containing material (Bonded ACM) comprises asbestos-containing-material which is sound in condition. Fibrous asbestos (FA) comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. Asbestos fines (AF) includes free fibres, small fibre bundles and also small fragments of bonded ACM that passes through a 7mm sieve - which implies that the bonded ACM fragments have a substantial degree of damage which increases the potential for fibre release.
AN-605	Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment Remediation and Management of Asbestos - Contaminated Sites in Western Australia - May 2009 and NEPM 1999 (2013) schedule B1 section 4..

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.

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Admin
Client	NEO CONSULTING PTY LTD
Address	PO BOX 279 RIVERSTONE NSW 2765
Telephone	0416 680 375
Facsimile	(Not specified)
Email	admin@neoconsulting.com.au
Project	**N6382**
Order Number	**N6382**
Samples	24

LABORATORY DETAILS

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Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
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SGS Reference	**SE251074 R0**
Date Received	20 Jul 2023
Date Reported	27 Jul 2023

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.
Sample #10,18,19,20.23,29,31,35,37,39,40: A portion of the sample supplied has been sub-sampled for asbestos analysis in soil according to SGS In-house procedures due to large volume. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Industries and Environment recommends supplying approximately 50-100g of sample in a separate container.
Asbestos analysed by Approved Identifier Yusuf Kuthpudin

VPH - Sample # 46 Not Tested due to no sample provided.

SIGNATORIES

S. Ravendra.

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

RESULTS

Fibre Identification in soil — Method AS4964/AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE251074.001	BH1.1	Soil	569g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.003	BH2.1	Soil	841g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.005	BH3.1	Soil	563g Clay, Sand, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg	<0.01
SE251074.007	BH4.1	Soil	701g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.009	BH5.1	Soil	757g Clay, Sand, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg	<0.01
SE251074.010	BH6.1	Soil	170g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.012	BH7.1	Soil	557g Clay, Sand, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.014	BH8.1	Soil	653g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.016	BH9.1	Soil	577g Clay, Sand, Soil, Rocks, Plant Matter	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.018	BH10.1	Soil	148g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.019	BH11.1	Soil	164g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.020	BH12.1	Soil	197g Clay, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg	<0.01
SE251074.021	HB13.1	Soil	681g Clay, Sand, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg	<0.01
SE251074.023	BH14.1	Soil	87g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.024	BH15.1	Soil	677g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.026	BH16.1	Soil	831g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.027	BH17.1	Soil	563g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.029	BH18.1	Soil	171g Clay	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg	<0.01
SE251074.031	BH19.1	Soil	171g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.033	BH20.1	Soil	847g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.035	BH21.1	Soil	116g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01

ANALYTICAL REPORT

RESULTS

Fibre Identification in soil — Method AS4964/AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE251074.037	BH22.1	Soil	174g Clay, Sand, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg	<0.01
SE251074.039	BH23.1	Soil	137g Clay, Sand, Soil, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE251074.040	BH24.1	Soil	209g Clay, Sand, Rocks	19 Jul 2023	No Asbestos Found at RL of 0.1g/kg	<0.01

METHOD SUMMARY

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

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	NATA accreditation does not cover the performance of this service .
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.
			***	-	Indicates that both * and ** apply.

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.
Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy , including dispersion staining.
Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos -containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

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

STATEMENT OF QA/QC PERFORMANCE

SE251074 R0

CLIENT DETAILS

Contact	Admin
Client	NEO CONSULTING PTY LTD
Address	PO BOX 279 RIVERSTONE NSW 2765
Telephone	0416 680 375
Facsimile	(Not specified)
Email	admin@neoconsulting.com.au
Project	**N6382**
Order Number	**N6382**
Samples	46

LABORATORY DETAILS

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Email	au.environmental.sydney@sgs.com
SGS Reference	**SE251074 R0**
Date Received	20 Jul 2023
Date Reported	27 Jul 2023

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Surrogate	VOC's in Soil	1 item
	Volatile Petroleum Hydrocarbons in Soil	1 item

SAMPLE SUMMARY

Sample counts by matrix	45 Soil. 1 Water	Type of documentation received	COC
Date documentation received	20/7/2023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	8.6°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE251074 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.

Fibre Identification in soil

Method: ME-(AU)-[ENV]AS4964/AN602

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1.1	SE251074.001	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH2.1	SE251074.003	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH3.1	SE251074.005	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH4.1	SE251074.007	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH5.1	SE251074.009	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH6.1	SE251074.010	LB286231	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH7.1	SE251074.012	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH8.1	SE251074.014	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH9.1	SE251074.016	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH10.1	SE251074.018	LB286231	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH11.1	SE251074.019	LB286231	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH12.1	SE251074.020	LB286231	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
HB13.1	SE251074.021	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH14.1	SE251074.023	LB286231	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH15.1	SE251074.024	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH16.1	SE251074.026	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH17.1	SE251074.027	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH18.1	SE251074.029	LB286231	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH19.1	SE251074.031	LB286231	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH20.1	SE251074.033	LB286230	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH21.1	SE251074.035	LB286231	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH22.1	SE251074.037	LB286231	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH23.1	SE251074.039	LB286231	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023
BH24.1	SE251074.040	LB286231	19 Jul 2023	20 Jul 2023	18 Jul 2024	25 Jul 2023	18 Jul 2024	27 Jul 2023

Gravimetric Determination of Asbestos in Soil

Method: ME-(AU)-[ENV]AN605

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1.1	SE251074.001	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023
BH2.1	SE251074.003	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023
BH3.1	SE251074.005	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023
BH4.1	SE251074.007	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023
BH5.1	SE251074.009	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023
BH7.1	SE251074.012	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023
BH8.1	SE251074.014	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023
BH9.1	SE251074.016	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023
HB13.1	SE251074.021	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023
BH15.1	SE251074.024	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023
BH16.1	SE251074.026	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023
BH17.1	SE251074.027	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023
BH20.1	SE251074.033	LB286230	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	27 Jul 2023

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
Rinsate	SE251074.046	LB286195	19 Jul 2023	20 Jul 2023	16 Aug 2023	25 Jul 2023	16 Aug 2023	26 Jul 2023

Mercury in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1.1	SE251074.001	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH1.2	SE251074.002	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH2.1	SE251074.003	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH2.2	SE251074.004	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH4.1	SE251074.007	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH4.2	SE251074.008	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH5.1	SE251074.009	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH6.1	SE251074.010	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH6.2	SE251074.011	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH8.1	SE251074.014	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH8.2	SE251074.015	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH9.1	SE251074.016	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH9.2	SE251074.017	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023

HOLDING TIME SUMMARY

SE251074 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.

Mercury in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH10.1	SE251074.018	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH11.1	SE251074.019	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH12.1	SE251074.020	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
HB13.1	SE251074.021	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH13.2	SE251074.022	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH14.1	SE251074.023	LB286096	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	27 Jul 2023
BH15.1	SE251074.024	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH15.2	SE251074.025	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH16.1	SE251074.026	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH17.1	SE251074.027	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH17.2	SE251074.028	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH18.1	SE251074.029	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH18.2	SE251074.030	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH19.1	SE251074.031	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH19.2	SE251074.032	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH20.1	SE251074.033	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH20.2	SE251074.034	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH21.1	SE251074.035	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH21.2	SE251074.036	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH22.1	SE251074.037	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH23.1	SE251074.039	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
BH24.1	SE251074.040	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
D1	SE251074.041	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
D2	SE251074.042	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023
D3	SE251074.043	LB286097	19 Jul 2023	20 Jul 2023	16 Aug 2023	24 Jul 2023	16 Aug 2023	26 Jul 2023

Moisture Content

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1.1	SE251074.001	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH1.2	SE251074.002	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH2.1	SE251074.003	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH2.2	SE251074.004	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH3.1	SE251074.005	LB286164	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	27 Jul 2023
BH3.2	SE251074.006	LB286164	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	27 Jul 2023
BH4.1	SE251074.007	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH4.2	SE251074.008	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH5.1	SE251074.009	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH6.1	SE251074.010	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH6.2	SE251074.011	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH7.1	SE251074.012	LB286164	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	27 Jul 2023
BH7.2	SE251074.013	LB286164	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	27 Jul 2023
BH8.1	SE251074.014	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH8.2	SE251074.015	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH9.1	SE251074.016	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH9.2	SE251074.017	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH10.1	SE251074.018	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH11.1	SE251074.019	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH12.1	SE251074.020	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
HB13.1	SE251074.021	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH13.2	SE251074.022	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH14.1	SE251074.023	LB286113	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH15.1	SE251074.024	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH15.2	SE251074.025	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH16.1	SE251074.026	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH17.1	SE251074.027	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH17.2	SE251074.028	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH18.1	SE251074.029	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH18.2	SE251074.030	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH19.1	SE251074.031	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH19.2	SE251074.032	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023

HOLDING TIME SUMMARY

SE251074 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
BH20.1	SE251074.033	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH20.2	SE251074.034	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH21.1	SE251074.035	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH21.2	SE251074.036	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH22.1	SE251074.037	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH22.2	SE251074.038	LB286164	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	27 Jul 2023
BH23.1	SE251074.039	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
BH24.1	SE251074.040	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
D1	SE251074.041	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
D2	SE251074.042	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
D3	SE251074.043	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023
Trip Blank	SE251074.045	LB286114	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	29 Jul 2023	26 Jul 2023

OC Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1.1	SE251074.001	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH1.2	SE251074.002	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH2.1	SE251074.003	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH2.2	SE251074.004	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH4.1	SE251074.007	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH4.2	SE251074.008	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH5.1	SE251074.009	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH6.1	SE251074.010	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH6.2	SE251074.011	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH8.1	SE251074.014	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH8.2	SE251074.015	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH9.1	SE251074.016	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH9.2	SE251074.017	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH10.1	SE251074.018	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH11.1	SE251074.019	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH12.1	SE251074.020	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
HB13.1	SE251074.021	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023
BH13.2	SE251074.022	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023
BH14.1	SE251074.023	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023
BH15.1	SE251074.024	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH15.2	SE251074.025	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH16.1	SE251074.026	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH17.1	SE251074.027	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH17.2	SE251074.028	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH18.1	SE251074.029	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH19.1	SE251074.031	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH19.2	SE251074.032	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023
BH20.1	SE251074.033	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023
BH20.2	SE251074.034	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023
BH21.1	SE251074.035	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023
BH22.1	SE251074.037	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023
BH23.1	SE251074.039	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023
BH24.1	SE251074.040	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023
D1	SE251074.041	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023
D2	SE251074.042	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023
D3	SE251074.043	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	27 Jul 2023

OC Pesticides in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
Rinsate	SE251074.046	LB286199	19 Jul 2023	20 Jul 2023	26 Jul 2023	25 Jul 2023	03 Sep 2023	27 Jul 2023

OP Pesticides in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1.1	SE251074.001	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH1.2	SE251074.002	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023

HOLDING TIME SUMMARY

SE251074 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.

OP Pesticides in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH2.1	SE251074.003	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH2.2	SE251074.004	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH4.1	SE251074.007	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH4.2	SE251074.008	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH5.1	SE251074.009	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH6.1	SE251074.010	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH6.2	SE251074.011	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH8.1	SE251074.014	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH8.2	SE251074.015	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH9.1	SE251074.016	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH9.2	SE251074.017	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH10.1	SE251074.018	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH11.1	SE251074.019	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH12.1	SE251074.020	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
HB13.1	SE251074.021	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH13.2	SE251074.022	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH14.1	SE251074.023	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH15.1	SE251074.024	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH15.2	SE251074.025	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH16.1	SE251074.026	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH17.1	SE251074.027	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH17.2	SE251074.028	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH18.1	SE251074.029	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH19.1	SE251074.031	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH19.2	SE251074.032	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH20.1	SE251074.033	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH20.2	SE251074.034	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH21.1	SE251074.035	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH22.1	SE251074.037	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH23.1	SE251074.039	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH24.1	SE251074.040	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
D1	SE251074.041	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
D2	SE251074.042	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
D3	SE251074.043	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023

OP Pesticides in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
Rinsate	SE251074.046	LB286199	19 Jul 2023	20 Jul 2023	26 Jul 2023	25 Jul 2023	03 Sep 2023	27 Jul 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
BH1.1	SE251074.001	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH1.2	SE251074.002	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH2.1	SE251074.003	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH2.2	SE251074.004	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH4.1	SE251074.007	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH4.2	SE251074.008	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH5.1	SE251074.009	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH6.1	SE251074.010	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH6.2	SE251074.011	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH8.1	SE251074.014	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH8.2	SE251074.015	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH9.1	SE251074.016	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH9.2	SE251074.017	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH10.1	SE251074.018	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH11.1	SE251074.019	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH12.1	SE251074.020	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
HB13.1	SE251074.021	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH13.2	SE251074.022	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH14.1	SE251074.023	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 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 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.

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
BH15.1	SE251074.024	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH15.2	SE251074.025	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH16.1	SE251074.026	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH17.1	SE251074.027	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH17.2	SE251074.028	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH18.1	SE251074.029	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH19.1	SE251074.031	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH19.2	SE251074.032	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH20.1	SE251074.033	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH20.2	SE251074.034	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH21.1	SE251074.035	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH22.1	SE251074.037	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH23.1	SE251074.039	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH24.1	SE251074.040	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
D1	SE251074.041	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
D2	SE251074.042	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
D3	SE251074.043	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 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
Rinsate	SE251074.046	LB286199	19 Jul 2023	20 Jul 2023	26 Jul 2023	25 Jul 2023	03 Sep 2023	27 Jul 2023

Soluble Anions (1:5) in Soil/Solids by Ion Chromatography

Method: ME-(AU)-[ENV]AN245

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH4.1	SE251074.007	LB286316	19 Jul 2023	20 Jul 2023	26 Jul 2023	26 Jul 2023	23 Aug 2023	27 Jul 2023
BH4.2	SE251074.008	LB286316	19 Jul 2023	20 Jul 2023	26 Jul 2023	26 Jul 2023	23 Aug 2023	27 Jul 2023
BH20.1	SE251074.033	LB286316	19 Jul 2023	20 Jul 2023	26 Jul 2023	26 Jul 2023	23 Aug 2023	27 Jul 2023
BH20.2	SE251074.034	LB286316	19 Jul 2023	20 Jul 2023	26 Jul 2023	26 Jul 2023	23 Aug 2023	27 Jul 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
BH1.1	SE251074.001	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH1.2	SE251074.002	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH2.1	SE251074.003	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH2.2	SE251074.004	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH3.1	SE251074.005	LB286107	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH3.2	SE251074.006	LB286107	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH4.1	SE251074.007	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH4.2	SE251074.008	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH5.1	SE251074.009	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH6.1	SE251074.010	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH6.2	SE251074.011	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH7.1	SE251074.012	LB286107	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH7.2	SE251074.013	LB286107	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH8.1	SE251074.014	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH8.2	SE251074.015	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH9.1	SE251074.016	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH9.2	SE251074.017	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH10.1	SE251074.018	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH11.1	SE251074.019	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH12.1	SE251074.020	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
HB13.1	SE251074.021	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH13.2	SE251074.022	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH14.1	SE251074.023	LB286094	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH15.1	SE251074.024	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH15.2	SE251074.025	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH16.1	SE251074.026	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH17.1	SE251074.027	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH17.2	SE251074.028	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH18.1	SE251074.029	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 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 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.

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
BH18.2	SE251074.030	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH19.1	SE251074.031	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH19.2	SE251074.032	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH20.1	SE251074.033	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH20.2	SE251074.034	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH21.1	SE251074.035	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH21.2	SE251074.036	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH22.1	SE251074.037	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH22.2	SE251074.038	LB286107	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH23.1	SE251074.039	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
BH24.1	SE251074.040	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
D1	SE251074.041	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
D2	SE251074.042	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 2023
D3	SE251074.043	LB286095	19 Jul 2023	20 Jul 2023	15 Jan 2024	24 Jul 2023	15 Jan 2024	27 Jul 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
Rinsate	SE251074.046	LB286192	19 Jul 2023	20 Jul 2023	15 Jan 2024	25 Jul 2023	15 Jan 2024	26 Jul 2023

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
BH1.1	SE251074.001	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH1.2	SE251074.002	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH2.1	SE251074.003	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH2.2	SE251074.004	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH4.1	SE251074.007	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH4.2	SE251074.008	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH5.1	SE251074.009	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH6.1	SE251074.010	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH6.2	SE251074.011	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH8.1	SE251074.014	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH8.2	SE251074.015	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH9.1	SE251074.016	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH9.2	SE251074.017	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH10.1	SE251074.018	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH11.1	SE251074.019	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH12.1	SE251074.020	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
HB13.1	SE251074.021	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH13.2	SE251074.022	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH14.1	SE251074.023	LB286104	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH15.1	SE251074.024	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH15.2	SE251074.025	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH16.1	SE251074.026	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH17.1	SE251074.027	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH17.2	SE251074.028	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH18.1	SE251074.029	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH19.1	SE251074.031	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH19.2	SE251074.032	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH20.1	SE251074.033	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH20.2	SE251074.034	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH21.1	SE251074.035	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH22.1	SE251074.037	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH23.1	SE251074.039	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
BH24.1	SE251074.040	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
D1	SE251074.041	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
D2	SE251074.042	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023
D3	SE251074.043	LB286105	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Sep 2023	26 Jul 2023

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref

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.

TRH (Total Recoverable Hydrocarbons) in Water (continued)

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
Rinsate	SE251074.046	LB286199	19 Jul 2023	20 Jul 2023	26 Jul 2023	25 Jul 2023	03 Sep 2023	27 Jul 2023

VOC's in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH1.1	SE251074.001	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH1.2	SE251074.002	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH2.1	SE251074.003	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH2.2	SE251074.004	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH4.1	SE251074.007	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH4.2	SE251074.008	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH5.1	SE251074.009	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH6.1	SE251074.010	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH6.2	SE251074.011	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH8.1	SE251074.014	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH8.2	SE251074.015	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH9.1	SE251074.016	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH9.2	SE251074.017	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH10.1	SE251074.018	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH11.1	SE251074.019	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH12.1	SE251074.020	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
HB13.1	SE251074.021	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH13.2	SE251074.022	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH14.1	SE251074.023	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH15.1	SE251074.024	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH15.2	SE251074.025	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH16.1	SE251074.026	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH17.1	SE251074.027	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH17.2	SE251074.028	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH18.1	SE251074.029	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH19.1	SE251074.031	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH19.2	SE251074.032	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH20.1	SE251074.033	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH20.2	SE251074.034	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH21.1	SE251074.035	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH22.1	SE251074.037	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH23.1	SE251074.039	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH24.1	SE251074.040	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
D1	SE251074.041	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
D2	SE251074.042	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
D3	SE251074.043	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
Trip Spike	SE251074.044	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
Trip Blank	SE251074.045	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023

VOCs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
Rinsate	SE251074.046	LB286219	19 Jul 2023	20 Jul 2023	02 Aug 2023	25 Jul 2023	02 Aug 2023	27 Jul 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
BH1.1	SE251074.001	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH1.2	SE251074.002	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH2.1	SE251074.003	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH2.2	SE251074.004	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH4.1	SE251074.007	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH4.2	SE251074.008	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH5.1	SE251074.009	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH6.1	SE251074.010	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH6.2	SE251074.011	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH8.1	SE251074.014	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023

HOLDING TIME SUMMARY

SE251074 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.

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
BH8.2	SE251074.015	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH9.1	SE251074.016	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH9.2	SE251074.017	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH10.1	SE251074.018	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH11.1	SE251074.019	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH12.1	SE251074.020	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
HB13.1	SE251074.021	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH13.2	SE251074.022	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH14.1	SE251074.023	LB286110	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH15.1	SE251074.024	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH15.2	SE251074.025	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH16.1	SE251074.026	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH17.1	SE251074.027	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH17.2	SE251074.028	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH18.1	SE251074.029	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH19.1	SE251074.031	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH19.2	SE251074.032	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH20.1	SE251074.033	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH20.2	SE251074.034	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH21.1	SE251074.035	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH22.1	SE251074.037	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH23.1	SE251074.039	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
BH24.1	SE251074.040	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
D1	SE251074.041	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
D2	SE251074.042	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
D3	SE251074.043	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
Trip Spike	SE251074.044	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 2023
Trip Blank	SE251074.045	LB286112	19 Jul 2023	20 Jul 2023	02 Aug 2023	24 Jul 2023	02 Aug 2023	26 Jul 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
Rinsate	SE251074.046	LB286219	19 Jul 2023	20 Jul 2023	02 Aug 2023	25 Jul 2023	02 Aug 2023	27 Jul 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)	BH1.1	SE251074.001	%	60 - 130%	82
	BH1.2	SE251074.002	%	60 - 130%	86
	BH2.1	SE251074.003	%	60 - 130%	86
	BH2.2	SE251074.004	%	60 - 130%	90
	BH4.1	SE251074.007	%	60 - 130%	94
	BH4.2	SE251074.008	%	60 - 130%	91
	BH5.1	SE251074.009	%	60 - 130%	91
	BH6.1	SE251074.010	%	60 - 130%	92
	BH6.2	SE251074.011	%	60 - 130%	86
	BH8.1	SE251074.014	%	60 - 130%	89
	BH8.2	SE251074.015	%	60 - 130%	89
	BH9.1	SE251074.016	%	60 - 130%	95
	BH9.2	SE251074.017	%	60 - 130%	88
	BH10.1	SE251074.018	%	60 - 130%	91
	BH11.1	SE251074.019	%	60 - 130%	87
	BH12.1	SE251074.020	%	60 - 130%	85
	HB13.1	SE251074.021	%	60 - 130%	88
	BH13.2	SE251074.022	%	60 - 130%	91
	BH14.1	SE251074.023	%	60 - 130%	94
	BH15.1	SE251074.024	%	60 - 130%	114
	BH15.2	SE251074.025	%	60 - 130%	110
	BH16.1	SE251074.026	%	60 - 130%	109
	BH17.1	SE251074.027	%	60 - 130%	110
	BH17.2	SE251074.028	%	60 - 130%	109
	BH18.1	SE251074.029	%	60 - 130%	107
	BH19.1	SE251074.031	%	60 - 130%	111
	BH19.2	SE251074.032	%	60 - 130%	115
	BH20.1	SE251074.033	%	60 - 130%	105
	BH20.2	SE251074.034	%	60 - 130%	108
	BH21.1	SE251074.035	%	60 - 130%	107
	BH22.1	SE251074.037	%	60 - 130%	110
	BH23.1	SE251074.039	%	60 - 130%	107
	BH24.1	SE251074.040	%	60 - 130%	108
	D1	SE251074.041	%	60 - 130%	107
	D2	SE251074.042	%	60 - 130%	104
	D3	SE251074.043	%	60 - 130%	107

OC Pesticides in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	Rinsate	SE251074.046	%	40 - 130%	81

OP Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1.1	SE251074.001	%	60 - 130%	75
	BH1.2	SE251074.002	%	60 - 130%	77
	BH2.1	SE251074.003	%	60 - 130%	83
	BH2.2	SE251074.004	%	60 - 130%	82
	BH4.1	SE251074.007	%	60 - 130%	79
	BH4.2	SE251074.008	%	60 - 130%	82
	BH5.1	SE251074.009	%	60 - 130%	79
	BH6.1	SE251074.010	%	60 - 130%	83
	BH6.2	SE251074.011	%	60 - 130%	72
	BH8.1	SE251074.014	%	60 - 130%	79
	BH8.2	SE251074.015	%	60 - 130%	78
	BH9.1	SE251074.016	%	60 - 130%	85
	BH9.2	SE251074.017	%	60 - 130%	83
	BH10.1	SE251074.018	%	60 - 130%	82
	BH11.1	SE251074.019	%	60 - 130%	78
	BH12.1	SE251074.020	%	60 - 130%	75
	HB13.1	SE251074.021	%	60 - 130%	80

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)	BH13.2	SE251074.022	%	60 - 130%	79
	BH14.1	SE251074.023	%	60 - 130%	81
	BH15.1	SE251074.024	%	60 - 130%	79
	BH15.2	SE251074.025	%	60 - 130%	83
	BH16.1	SE251074.026	%	60 - 130%	82
	BH17.1	SE251074.027	%	60 - 130%	84
	BH17.2	SE251074.028	%	60 - 130%	80
	BH18.1	SE251074.029	%	60 - 130%	82
	BH19.1	SE251074.031	%	60 - 130%	83
	BH19.2	SE251074.032	%	60 - 130%	82
	BH20.1	SE251074.033	%	60 - 130%	81
	BH20.2	SE251074.034	%	60 - 130%	79
	BH21.1	SE251074.035	%	60 - 130%	83
	BH22.1	SE251074.037	%	60 - 130%	84
	BH23.1	SE251074.039	%	60 - 130%	84
	BH24.1	SE251074.040	%	60 - 130%	84
	D1	SE251074.041	%	60 - 130%	82
	D2	SE251074.042	%	60 - 130%	79
	D3	SE251074.043	%	60 - 130%	80
d14-p-terphenyl (Surrogate)	BH1.1	SE251074.001	%	60 - 130%	92
	BH1.2	SE251074.002	%	60 - 130%	93
	BH2.1	SE251074.003	%	60 - 130%	94
	BH2.2	SE251074.004	%	60 - 130%	93
	BH4.1	SE251074.007	%	60 - 130%	93
	BH4.2	SE251074.008	%	60 - 130%	93
	BH5.1	SE251074.009	%	60 - 130%	90
	BH6.1	SE251074.010	%	60 - 130%	97
	BH6.2	SE251074.011	%	60 - 130%	84
	BH8.1	SE251074.014	%	60 - 130%	93
	BH8.2	SE251074.015	%	60 - 130%	95
	BH9.1	SE251074.016	%	60 - 130%	95
	BH9.2	SE251074.017	%	60 - 130%	95
	BH10.1	SE251074.018	%	60 - 130%	94
	BH11.1	SE251074.019	%	60 - 130%	92
	BH12.1	SE251074.020	%	60 - 130%	89
	HB13.1	SE251074.021	%	60 - 130%	94
	BH13.2	SE251074.022	%	60 - 130%	94
	BH14.1	SE251074.023	%	60 - 130%	93
	BH15.1	SE251074.024	%	60 - 130%	92
	BH15.2	SE251074.025	%	60 - 130%	97
	BH16.1	SE251074.026	%	60 - 130%	97
	BH17.1	SE251074.027	%	60 - 130%	99
	BH17.2	SE251074.028	%	60 - 130%	96
	BH18.1	SE251074.029	%	60 - 130%	97
	BH19.1	SE251074.031	%	60 - 130%	97
	BH19.2	SE251074.032	%	60 - 130%	98
	BH20.1	SE251074.033	%	60 - 130%	96
	BH20.2	SE251074.034	%	60 - 130%	99
	BH21.1	SE251074.035	%	60 - 130%	98
	BH22.1	SE251074.037	%	60 - 130%	95
	BH23.1	SE251074.039	%	60 - 130%	100
	BH24.1	SE251074.040	%	60 - 130%	98
	D1	SE251074.041	%	60 - 130%	96
	D2	SE251074.042	%	60 - 130%	97
	D3	SE251074.043	%	60 - 130%	97

OP Pesticides in Water — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	Rinsate	SE251074.046	%	40 - 130%	46
d14-p-terphenyl (Surrogate)	Rinsate	SE251074.046	%	40 - 130%	56

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 — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH1.1	SE251074.001	%	70 - 130%	75
	BH1.2	SE251074.002	%	70 - 130%	77
	BH2.1	SE251074.003	%	70 - 130%	83
	BH2.2	SE251074.004	%	70 - 130%	82
	BH4.1	SE251074.007	%	70 - 130%	79
	BH4.2	SE251074.008	%	70 - 130%	82
	BH5.1	SE251074.009	%	70 - 130%	79
	BH6.1	SE251074.010	%	70 - 130%	83
	BH6.2	SE251074.011	%	70 - 130%	72
	BH8.1	SE251074.014	%	70 - 130%	79
	BH8.2	SE251074.015	%	70 - 130%	78
	BH9.1	SE251074.016	%	70 - 130%	85
	BH9.2	SE251074.017	%	70 - 130%	83
	BH10.1	SE251074.018	%	70 - 130%	82
	BH11.1	SE251074.019	%	70 - 130%	78
	BH12.1	SE251074.020	%	70 - 130%	75
	HB13.1	SE251074.021	%	70 - 130%	80
	BH13.2	SE251074.022	%	70 - 130%	79
	BH14.1	SE251074.023	%	70 - 130%	81
	BH15.1	SE251074.024	%	70 - 130%	79
	BH15.2	SE251074.025	%	70 - 130%	83
	BH16.1	SE251074.026	%	70 - 130%	82
	BH17.1	SE251074.027	%	70 - 130%	84
	BH17.2	SE251074.028	%	70 - 130%	80
	BH18.1	SE251074.029	%	70 - 130%	82
	BH19.1	SE251074.031	%	70 - 130%	83
	BH19.2	SE251074.032	%	70 - 130%	82
	BH20.1	SE251074.033	%	70 - 130%	81
	BH20.2	SE251074.034	%	70 - 130%	79
	BH21.1	SE251074.035	%	70 - 130%	83
	BH22.1	SE251074.037	%	70 - 130%	84
	BH23.1	SE251074.039	%	70 - 130%	84
	BH24.1	SE251074.040	%	70 - 130%	84
	D1	SE251074.041	%	70 - 130%	82
	D2	SE251074.042	%	70 - 130%	79
	D3	SE251074.043	%	70 - 130%	80
d14-p-terphenyl (Surrogate)	BH1.1	SE251074.001	%	70 - 130%	92
	BH1.2	SE251074.002	%	70 - 130%	93
	BH2.1	SE251074.003	%	70 - 130%	94
	BH2.2	SE251074.004	%	70 - 130%	93
	BH4.1	SE251074.007	%	70 - 130%	93
	BH4.2	SE251074.008	%	70 - 130%	93
	BH5.1	SE251074.009	%	70 - 130%	90
	BH6.1	SE251074.010	%	70 - 130%	97
	BH6.2	SE251074.011	%	70 - 130%	84
	BH8.1	SE251074.014	%	70 - 130%	93
	BH8.2	SE251074.015	%	70 - 130%	95
	BH9.1	SE251074.016	%	70 - 130%	95
	BH9.2	SE251074.017	%	70 - 130%	95
	BH10.1	SE251074.018	%	70 - 130%	94
	BH11.1	SE251074.019	%	70 - 130%	92
	BH12.1	SE251074.020	%	70 - 130%	89
	HB13.1	SE251074.021	%	70 - 130%	94
	BH13.2	SE251074.022	%	70 - 130%	94
	BH14.1	SE251074.023	%	70 - 130%	93
	BH15.1	SE251074.024	%	70 - 130%	92
	BH15.2	SE251074.025	%	70 - 130%	97
	BH16.1	SE251074.026	%	70 - 130%	97
	BH17.1	SE251074.027	%	70 - 130%	99
	BH17.2	SE251074.028	%	70 - 130%	96
	BH18.1	SE251074.029	%	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.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d14-p-terphenyl (Surrogate)	BH19.1	SE251074.031	%	70 - 130%	97
	BH19.2	SE251074.032	%	70 - 130%	98
	BH20.1	SE251074.033	%	70 - 130%	96
	BH20.2	SE251074.034	%	70 - 130%	99
	BH21.1	SE251074.035	%	70 - 130%	98
	BH22.1	SE251074.037	%	70 - 130%	95
	BH23.1	SE251074.039	%	70 - 130%	100
	BH24.1	SE251074.040	%	70 - 130%	98
	D1	SE251074.041	%	70 - 130%	96
	D2	SE251074.042	%	70 - 130%	97
	D3	SE251074.043	%	70 - 130%	97
d5-nitrobenzene (Surrogate)	BH1.1	SE251074.001	%	70 - 130%	80
	BH1.2	SE251074.002	%	70 - 130%	80
	BH2.1	SE251074.003	%	70 - 130%	83
	BH2.2	SE251074.004	%	70 - 130%	83
	BH4.1	SE251074.007	%	70 - 130%	82
	BH4.2	SE251074.008	%	70 - 130%	82
	BH5.1	SE251074.009	%	70 - 130%	77
	BH6.1	SE251074.010	%	70 - 130%	85
	BH6.2	SE251074.011	%	70 - 130%	76
	BH8.1	SE251074.014	%	70 - 130%	82
	BH8.2	SE251074.015	%	70 - 130%	82
	BH9.1	SE251074.016	%	70 - 130%	84
	BH9.2	SE251074.017	%	70 - 130%	84
	BH10.1	SE251074.018	%	70 - 130%	82
	BH11.1	SE251074.019	%	70 - 130%	82
	BH12.1	SE251074.020	%	70 - 130%	77
	HB13.1	SE251074.021	%	70 - 130%	83
	BH13.2	SE251074.022	%	70 - 130%	82
	BH14.1	SE251074.023	%	70 - 130%	81
	BH15.1	SE251074.024	%	70 - 130%	81
	BH15.2	SE251074.025	%	70 - 130%	84
	BH16.1	SE251074.026	%	70 - 130%	86
	BH17.1	SE251074.027	%	70 - 130%	85
	BH17.2	SE251074.028	%	70 - 130%	82
	BH18.1	SE251074.029	%	70 - 130%	86
	BH19.1	SE251074.031	%	70 - 130%	84
	BH19.2	SE251074.032	%	70 - 130%	87
	BH20.1	SE251074.033	%	70 - 130%	85
	BH20.2	SE251074.034	%	70 - 130%	83
	BH21.1	SE251074.035	%	70 - 130%	86
	BH22.1	SE251074.037	%	70 - 130%	83
	BH23.1	SE251074.039	%	70 - 130%	85
	BH24.1	SE251074.040	%	70 - 130%	84
	D1	SE251074.041	%	70 - 130%	84
	D2	SE251074.042	%	70 - 130%	79
	D3	SE251074.043	%	70 - 130%	84

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	Rinsate	SE251074.046	%	40 - 130%	46
d14-p-terphenyl (Surrogate)	Rinsate	SE251074.046	%	40 - 130%	56
d5-nitrobenzene (Surrogate)	Rinsate	SE251074.046	%	40 - 130%	46

VOC's in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1.1	SE251074.001	%	60 - 130%	76
	BH1.2	SE251074.002	%	60 - 130%	79
	BH2.1	SE251074.003	%	60 - 130%	79
	BH2.2	SE251074.004	%	60 - 130%	82
	BH4.1	SE251074.007	%	60 - 130%	75
	BH4.2	SE251074.008	%	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)	BH5.1	SE251074.009	%	60 - 130%	77
	BH6.1	SE251074.010	%	60 - 130%	85
	BH6.2	SE251074.011	%	60 - 130%	83
	BH8.1	SE251074.014	%	60 - 130%	82
	BH8.2	SE251074.015	%	60 - 130%	79
	BH9.1	SE251074.016	%	60 - 130%	72
	BH9.2	SE251074.017	%	60 - 130%	74
	BH10.1	SE251074.018	%	60 - 130%	59 ①
	BH11.1	SE251074.019	%	60 - 130%	71
	BH12.1	SE251074.020	%	60 - 130%	74
	HB13.1	SE251074.021	%	60 - 130%	76
	BH13.2	SE251074.022	%	60 - 130%	76
	BH14.1	SE251074.023	%	60 - 130%	74
	BH15.1	SE251074.024	%	60 - 130%	96
	BH15.2	SE251074.025	%	60 - 130%	102
	BH16.1	SE251074.026	%	60 - 130%	93
	BH17.1	SE251074.027	%	60 - 130%	103
	BH17.2	SE251074.028	%	60 - 130%	106
	BH18.1	SE251074.029	%	60 - 130%	107
	BH19.1	SE251074.031	%	60 - 130%	100
	BH19.2	SE251074.032	%	60 - 130%	106
	BH20.1	SE251074.033	%	60 - 130%	103
	BH20.2	SE251074.034	%	60 - 130%	100
	BH21.1	SE251074.035	%	60 - 130%	95
	BH22.1	SE251074.037	%	60 - 130%	98
	BH23.1	SE251074.039	%	60 - 130%	103
	BH24.1	SE251074.040	%	60 - 130%	108
	D1	SE251074.041	%	60 - 130%	98
	D2	SE251074.042	%	60 - 130%	103
	D3	SE251074.043	%	60 - 130%	106
	Trip Spike	SE251074.044	%	60 - 130%	105
	Trip Blank	SE251074.045	%	60 - 130%	118
d4-1,2-dichloroethane (Surrogate)	BH1.1	SE251074.001	%	60 - 130%	81
	BH1.2	SE251074.002	%	60 - 130%	84
	BH2.1	SE251074.003	%	60 - 130%	89
	BH2.2	SE251074.004	%	60 - 130%	92
	BH4.1	SE251074.007	%	60 - 130%	89
	BH4.2	SE251074.008	%	60 - 130%	67
	BH5.1	SE251074.009	%	60 - 130%	87
	BH6.1	SE251074.010	%	60 - 130%	71
	BH6.2	SE251074.011	%	60 - 130%	71
	BH8.1	SE251074.014	%	60 - 130%	72
	BH8.2	SE251074.015	%	60 - 130%	66
	BH9.1	SE251074.016	%	60 - 130%	68
	BH9.2	SE251074.017	%	60 - 130%	82
	BH10.1	SE251074.018	%	60 - 130%	70
	BH11.1	SE251074.019	%	60 - 130%	66
	BH12.1	SE251074.020	%	60 - 130%	84
	HB13.1	SE251074.021	%	60 - 130%	86
	BH13.2	SE251074.022	%	60 - 130%	71
	BH14.1	SE251074.023	%	60 - 130%	86
	BH15.1	SE251074.024	%	60 - 130%	114
	BH15.2	SE251074.025	%	60 - 130%	111
	BH16.1	SE251074.026	%	60 - 130%	110
	BH17.1	SE251074.027	%	60 - 130%	116
	BH17.2	SE251074.028	%	60 - 130%	118
	BH18.1	SE251074.029	%	60 - 130%	117
	BH19.1	SE251074.031	%	60 - 130%	114
	BH19.2	SE251074.032	%	60 - 130%	115
	BH20.1	SE251074.033	%	60 - 130%	116
	BH20.2	SE251074.034	%	60 - 130%	113

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)	BH21.1	SE251074.035	%	60 - 130%	116
	BH22.1	SE251074.037	%	60 - 130%	114
	BH23.1	SE251074.039	%	60 - 130%	124
	BH24.1	SE251074.040	%	60 - 130%	126
	D1	SE251074.041	%	60 - 130%	110
	D2	SE251074.042	%	60 - 130%	121
	D3	SE251074.043	%	60 - 130%	121
	Trip Spike	SE251074.044	%	60 - 130%	125
	Trip Blank	SE251074.045	%	60 - 130%	115
d8-toluene (Surrogate)	BH1.1	SE251074.001	%	60 - 130%	97
	BH1.2	SE251074.002	%	60 - 130%	104
	BH2.1	SE251074.003	%	60 - 130%	111
	BH2.2	SE251074.004	%	60 - 130%	114
	BH4.1	SE251074.007	%	60 - 130%	109
	BH4.2	SE251074.008	%	60 - 130%	91
	BH5.1	SE251074.009	%	60 - 130%	102
	BH6.1	SE251074.010	%	60 - 130%	106
	BH6.2	SE251074.011	%	60 - 130%	104
	BH8.1	SE251074.014	%	60 - 130%	104
	BH8.2	SE251074.015	%	60 - 130%	95
	BH9.1	SE251074.016	%	60 - 130%	85
	BH9.2	SE251074.017	%	60 - 130%	94
	BH10.1	SE251074.018	%	60 - 130%	76
	BH11.1	SE251074.019	%	60 - 130%	87
	BH12.1	SE251074.020	%	60 - 130%	98
	HB13.1	SE251074.021	%	60 - 130%	101
	BH13.2	SE251074.022	%	60 - 130%	95
	BH14.1	SE251074.023	%	60 - 130%	100
	BH15.1	SE251074.024	%	60 - 130%	95
	BH15.2	SE251074.025	%	60 - 130%	92
	BH16.1	SE251074.026	%	60 - 130%	91
	BH17.1	SE251074.027	%	60 - 130%	92
	BH17.2	SE251074.028	%	60 - 130%	93
	BH18.1	SE251074.029	%	60 - 130%	94
	BH19.1	SE251074.031	%	60 - 130%	91
	BH19.2	SE251074.032	%	60 - 130%	91
	BH20.1	SE251074.033	%	60 - 130%	89
	BH20.2	SE251074.034	%	60 - 130%	86
	BH21.1	SE251074.035	%	60 - 130%	90
	BH22.1	SE251074.037	%	60 - 130%	94
	BH23.1	SE251074.039	%	60 - 130%	95
	BH24.1	SE251074.040	%	60 - 130%	96
	D1	SE251074.041	%	60 - 130%	84
	D2	SE251074.042	%	60 - 130%	92
	D3	SE251074.043	%	60 - 130%	94
	Trip Spike	SE251074.044	%	60 - 130%	106
	Trip Blank	SE251074.045	%	60 - 130%	103

VOCs in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	Rinsate	SE251074.046	%	40 - 130%	NA
d4-1,2-dichloroethane (Surrogate)	Rinsate	SE251074.046	%	40 - 130%	NA
d8-toluene (Surrogate)	Rinsate	SE251074.046	%	40 - 130%	NA

Volatile Petroleum Hydrocarbons in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH1.1	SE251074.001	%	60 - 130%	76
	BH1.2	SE251074.002	%	60 - 130%	79
	BH2.1	SE251074.003	%	60 - 130%	79
	BH2.2	SE251074.004	%	60 - 130%	82
	BH4.1	SE251074.007	%	60 - 130%	75
	BH4.2	SE251074.008	%	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.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH5.1	SE251074.009	%	60 - 130%	77
	BH6.1	SE251074.010	%	60 - 130%	85
	BH6.2	SE251074.011	%	60 - 130%	83
	BH8.1	SE251074.014	%	60 - 130%	82
	BH8.2	SE251074.015	%	60 - 130%	79
	BH9.1	SE251074.016	%	60 - 130%	72
	BH9.2	SE251074.017	%	60 - 130%	74
	BH10.1	SE251074.018	%	60 - 130%	59 ①
	BH11.1	SE251074.019	%	60 - 130%	71
	BH12.1	SE251074.020	%	60 - 130%	74
	HB13.1	SE251074.021	%	60 - 130%	76
	BH13.2	SE251074.022	%	60 - 130%	76
	BH14.1	SE251074.023	%	60 - 130%	74
	BH15.1	SE251074.024	%	60 - 130%	96
	BH15.2	SE251074.025	%	60 - 130%	102
	BH16.1	SE251074.026	%	60 - 130%	93
	BH17.1	SE251074.027	%	60 - 130%	103
	BH17.2	SE251074.028	%	60 - 130%	106
	BH18.1	SE251074.029	%	60 - 130%	107
	BH19.1	SE251074.031	%	60 - 130%	100
	BH19.2	SE251074.032	%	60 - 130%	106
	BH20.1	SE251074.033	%	60 - 130%	103
	BH20.2	SE251074.034	%	60 - 130%	100
	BH21.1	SE251074.035	%	60 - 130%	95
	BH22.1	SE251074.037	%	60 - 130%	98
	BH23.1	SE251074.039	%	60 - 130%	103
	BH24.1	SE251074.040	%	60 - 130%	108
	D1	SE251074.041	%	60 - 130%	98
	D2	SE251074.042	%	60 - 130%	103
	D3	SE251074.043	%	60 - 130%	106
d4-1,2-dichloroethane (Surrogate)	BH1.1	SE251074.001	%	60 - 130%	81
	BH1.2	SE251074.002	%	60 - 130%	84
	BH2.1	SE251074.003	%	60 - 130%	89
	BH2.2	SE251074.004	%	60 - 130%	92
	BH4.1	SE251074.007	%	60 - 130%	89
	BH4.2	SE251074.008	%	60 - 130%	67
	BH5.1	SE251074.009	%	60 - 130%	87
	BH6.1	SE251074.010	%	60 - 130%	71
	BH6.2	SE251074.011	%	60 - 130%	71
	BH8.1	SE251074.014	%	60 - 130%	72
	BH8.2	SE251074.015	%	60 - 130%	66
	BH9.1	SE251074.016	%	60 - 130%	68
	BH9.2	SE251074.017	%	60 - 130%	82
	BH10.1	SE251074.018	%	60 - 130%	70
	BH11.1	SE251074.019	%	60 - 130%	66
	BH12.1	SE251074.020	%	60 - 130%	84
	HB13.1	SE251074.021	%	60 - 130%	86
	BH13.2	SE251074.022	%	60 - 130%	71
	BH14.1	SE251074.023	%	60 - 130%	86
	BH15.1	SE251074.024	%	60 - 130%	114
	BH15.2	SE251074.025	%	60 - 130%	111
	BH16.1	SE251074.026	%	60 - 130%	110
	BH17.1	SE251074.027	%	60 - 130%	116
	BH17.2	SE251074.028	%	60 - 130%	118
	BH18.1	SE251074.029	%	60 - 130%	117
	BH19.1	SE251074.031	%	60 - 130%	114
	BH19.2	SE251074.032	%	60 - 130%	115
	BH20.1	SE251074.033	%	60 - 130%	116
	BH20.2	SE251074.034	%	60 - 130%	113
	BH21.1	SE251074.035	%	60 - 130%	116
	BH22.1	SE251074.037	%	60 - 130%	114

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)	BH23.1	SE251074.039	%	60 - 130%	124
	BH24.1	SE251074.040	%	60 - 130%	126
	D1	SE251074.041	%	60 - 130%	110
	D2	SE251074.042	%	60 - 130%	121
	D3	SE251074.043	%	60 - 130%	121
d8-toluene (Surrogate)	BH1.1	SE251074.001	%	60 - 130%	97
	BH1.2	SE251074.002	%	60 - 130%	104
	BH2.1	SE251074.003	%	60 - 130%	111
	BH2.2	SE251074.004	%	60 - 130%	114
	BH4.1	SE251074.007	%	60 - 130%	109
	BH4.2	SE251074.008	%	60 - 130%	91
	BH5.1	SE251074.009	%	60 - 130%	102
	BH6.1	SE251074.010	%	60 - 130%	106
	BH6.2	SE251074.011	%	60 - 130%	104
	BH8.1	SE251074.014	%	60 - 130%	104
	BH8.2	SE251074.015	%	60 - 130%	95
	BH9.1	SE251074.016	%	60 - 130%	85
	BH9.2	SE251074.017	%	60 - 130%	94
	BH10.1	SE251074.018	%	60 - 130%	76
	BH11.1	SE251074.019	%	60 - 130%	87
	BH12.1	SE251074.020	%	60 - 130%	98
	HB13.1	SE251074.021	%	60 - 130%	101
	BH13.2	SE251074.022	%	60 - 130%	95
	BH14.1	SE251074.023	%	60 - 130%	100
	BH15.1	SE251074.024	%	60 - 130%	95
	BH15.2	SE251074.025	%	60 - 130%	92
	BH16.1	SE251074.026	%	60 - 130%	91
	BH17.1	SE251074.027	%	60 - 130%	92
	BH17.2	SE251074.028	%	60 - 130%	93
	BH18.1	SE251074.029	%	60 - 130%	94
	BH19.1	SE251074.031	%	60 - 130%	91
	BH19.2	SE251074.032	%	60 - 130%	91
	BH20.1	SE251074.033	%	60 - 130%	89
	BH20.2	SE251074.034	%	60 - 130%	86
	BH21.1	SE251074.035	%	60 - 130%	90
	BH22.1	SE251074.037	%	60 - 130%	94
	BH23.1	SE251074.039	%	60 - 130%	95
	BH24.1	SE251074.040	%	60 - 130%	96
	D1	SE251074.041	%	60 - 130%	84
	D2	SE251074.042	%	60 - 130%	92
	D3	SE251074.043	%	60 - 130%	94

Volatile Petroleum Hydrocarbons in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	Rinsate	SE251074.046	%	40 - 130%	82
d4-1,2-dichloroethane (Surrogate)	Rinsate	SE251074.046	%	60 - 130%	99
d8-toluene (Surrogate)	Rinsate	SE251074.046	%	40 - 130%	88

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
LB286195.001	Mercury	mg/L	0.0001	<0.0001

Mercury in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB286096.001	Mercury	mg/kg	0.05	<0.05
LB286097.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB286104.001		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)	%	-	83
LB286105.001		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)	%	-	99

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 Water

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

Sample Number		Parameter	Units	LOR	Result
LB286199.001		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)	%	-	88

OP Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB286104.001		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)	%	-	80
		d14-p-terphenyl (Surrogate)	%	-	96
LB286105.001		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)	%	-	88
		d14-p-terphenyl (Surrogate)	%	-	108

OP Pesticides in Water

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

Sample Number		Parameter	Units	LOR	Result
LB286199.001		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

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 Water (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB286199.001		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)	%	-	66
		d14-p-terphenyl (Surrogate)	%	-	84

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB286104.001		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)	%	-	86
		2-fluorobiphenyl (Surrogate)	%	-	80
		d14-p-terphenyl (Surrogate)	%	-	96
LB286105.001		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)	%	-	93
		2-fluorobiphenyl (Surrogate)	%	-	88
		d14-p-terphenyl (Surrogate)	%	-	108

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Number	Parameter	Units	LOR	Result
LB286199.001	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

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
LB286199.001		Pyrene	µg/L	0.1	<0.1
		Benzo(a)anthracene	µg/L	0.1	<0.1
		Chrysene	µg/L	0.1	<0.1
		Benzo(a)pyrene	µg/L	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1
		Benzo(ghi)perylene	µg/L	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	60
		2-fluorobiphenyl (Surrogate)	%	-	66
		d14-p-terphenyl (Surrogate)	%	-	84

Soluble Anions (1:5) in Soil/Solids by Ion Chromatography

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result
LB286316.001	Nitrate Nitrogen	mg/kg	0.05	<0.05

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

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

Sample Number	Parameter	Units	LOR	Result
LB286094.001	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
LB286095.001	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
LB286107.001	Lead, Pb	mg/kg	1	<1

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB286192.001	Arsenic	µg/L	1	<1
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Copper	µg/L	1	<1
	Lead	µg/L	1	<1
	Nickel	µg/L	1	<1
	Zinc	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB286104.001	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
LB286105.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB286199.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	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.

TRH (Total Recoverable Hydrocarbons) in Water (continued)

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result
LB286199.001		TRH C37-C40	µg/L	200	<200

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB286110.001	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)	%	-	118
		Bromofluorobenzene (Surrogate)	%	-	83
	Totals	Total BTEX*	mg/kg	0.6	<0.6
LB286112.001	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)	%	-	101
		Bromofluorobenzene (Surrogate)	%	-	110
	Totals	Total BTEX*	mg/kg	0.6	<0.6

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result
LB286219.001	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)	%	-	112
		d8-toluene (Surrogate)	%	-	110
		Bromofluorobenzene (Surrogate)	%	-	98

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB286110.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
LB286112.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	119

Volatile Petroleum Hydrocarbons in Water

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

Sample Number		Parameter	Units	LOR	Result
LB286219.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	112
		d8-toluene (Surrogate)	%	-	110
		Bromofluorobenzene (Surrogate)	%	-	98

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.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251218.002	LB286195.012	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	0

Mercury in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.014	LB286096.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE251074.023	LB286096.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE251074.033	LB286097.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE251074.043	LB286097.024	Mercury	mg/kg	0.05	0.07	0.07	102	0

Moisture Content

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.014	LB286113.011	% Moisture	%w/w	1	17.0	15.5	36	10
SE251074.023	LB286113.021	% Moisture	%w/w	1	23.7	25.8	34	9
SE251074.033	LB286114.011	% Moisture	%w/w	1	14.6	14.4	37	1
SE251074.043	LB286114.021	% Moisture	%w/w	1	16.7	15.2	36	9
SE251096.005	LB286164.011	% Moisture	%w/w	1	12.9	15.7	37	20
SE251145.002	LB286164.015	% Moisture	%w/w	1	4.1	4.6	53	12

OC Pesticides in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.014	LB286104.014		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	-	0.13	0.13	30	1
SE251074.023	LB286104.024		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

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.

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.023	LB286104.024		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	-	0.14	0.14	30	1
SE251074.034	LB286105.014		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	0.16	30	1
SE251074.043	LB286105.022		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

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.

OC Pesticides in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.043	LB286105.022		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	0.15	30	6

OP Pesticides in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.014	LB286104.014		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	-	0.4	0.4	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE251074.023	LB286104.024		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	-	0.4	0.4	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE251074.034	LB286105.014		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

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.

OP Pesticides in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.034	LB286105.014		Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE251074.043	LB286105.022		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	-	0.4	0.4	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.014	LB286104.014		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	30	0
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE251074.023	LB286104.024		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

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.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.023	LB286104.024		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE251074.034	LB286105.014		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE251074.043	LB286105.022		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	30	3
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	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 give a different calculated RPD.

Soluble Anions (1:5) in Soil/Solids by Ion Chromatography

Method: ME-(AU)-[ENV]AN245

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.034	LB286316.010	Nitrate Nitrogen	mg/kg	0.05	<0.05	<0.05	200	0

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.014	LB286094.014	Arsenic, As	mg/kg	1	2	3	66	25
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	46	58	31	24
		Copper, Cu	mg/kg	0.5	1.1	1.0	77	3
		Nickel, Ni	mg/kg	0.5	1.8	1.7	58	9
		Lead, Pb	mg/kg	1	14	11	38	26
		Zinc, Zn	mg/kg	2	16	16	43	1
SE251074.023	LB286094.024	Arsenic, As	mg/kg	1	2	2	82	22
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	22	17	33	23
		Copper, Cu	mg/kg	0.5	1.7	2.1	57	21
		Nickel, Ni	mg/kg	0.5	1.6	1.6	62	1
		Lead, Pb	mg/kg	1	9	11	40	21
		Zinc, Zn	mg/kg	2	17	19	41	9
SE251074.033	LB286095.014	Arsenic, As	mg/kg	1	2	<1	94	74
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	1.4	1.0	72	29
		Copper, Cu	mg/kg	0.5	<0.5	<0.5	200	0
		Nickel, Ni	mg/kg	0.5	1.3	0.8	78	55
		Lead, Pb	mg/kg	1	3	2	75	53
		Zinc, Zn	mg/kg	2	2.5	<2.0	129	24
SE251074.043	LB286095.024	Arsenic, As	mg/kg	1	7	7	44	2
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	76	79	31	3
		Nickel, Ni	mg/kg	0.5	<0.5	0.6	125	12
		Lead, Pb	mg/kg	1	14	15	37	5
		Zinc, Zn	mg/kg	2	8.0	8.2	55	2
SE251096.005	LB286107.014	Lead, Pb	mg/kg	1	6	6	47	2
SE251145.002	LB286107.018	Lead, Pb	mg/kg	1	120	100	31	10

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251218.002	LB286192.024	Arsenic	µg/L	1	2	2	76	2
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	2	2	78	2
		Copper	µg/L	1	4	4	42	2
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	158	0

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.014	LB286104.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	181	0
			TRH C29-C36	mg/kg	45	<45	<45	168	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	198	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE251074.023	LB286104.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	66	112	38
			TRH C29-C36	mg/kg	45	77	110	78	38
			TRH C37-C40	mg/kg	100	<100	<100	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.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.023	LB286104.024		TRH C10-C36 Total	mg/kg	110	<110	180	116	48
			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	100	140	105	33
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE251074.034	LB286105.014		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
SE251074.043	LB286105.022		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251018.001	LB286199.028		TRH C10-C14	µg/L	50	1400	1600	33	14
			TRH C15-C28	µg/L	200	490	640	65	26
			TRH C29-C36	µg/L	200	<200	330	112	50
			TRH C37-C40	µg/L	200	<200	<200	200	0
			TRH C10-C40	µg/L	320	2000	2600	44	23
		TRH F Bands	TRH >C10-C16	µg/L	60	1400	1600	34	14
			TRH >C16-C34 (F3)	µg/L	500	620	920	95	39
			TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0
SE251095.007	LB286199.029		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

VOC's in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.014	LB286110.014	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	-	7.2	6.9	50	5
			d8-toluene (Surrogate)	mg/kg	-	10.4	10.0	50	4
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.2	8.1	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
SE251074.023	LB286110.024	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
			Toluene	mg/kg	0.1	<0.1	<0.1	200	0

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.

VOC's in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.023	LB286110.024	Monocyclic	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	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	8.6	50	1
			d8-toluene (Surrogate)	mg/kg	-	10.0	9.9	50	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.6	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
SE251074.034	LB286112.014	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	-	11.3	11.8	50	5
			d8-toluene (Surrogate)	mg/kg	-	8.6	9.8	50	13
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.0	11.1	50	11
		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
SE251074.043	LB286112.026	Monocyclic	Benzene	mg/kg	0.1	<0.1	0	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	0.0050236631	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	0.0004997957	200	0
			m/p-xylene	mg/kg	0.2	<0.2	0.0017906956	200	0
			o-xylene	mg/kg	0.1	<0.1	0.0004592799	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	0.0016461067	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.1	12.0655599212	50	0
			d8-toluene (Surrogate)	mg/kg	-	9.4	9.0613973584	50	4
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.6	10.3723951990	50	2
		Totals	Total BTEX*	mg/kg	0.6	<0.6	0	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	0.0022499755	200	0

VOCs in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251218.001	LB286219.025	Monocyclic	Benzene	µg/L	0.5	5.7	5.9	39	4
		Aromatic	Toluene	µg/L	0.5	15	15	33	2
			Ethylbenzene	µg/L	0.5	2.9	2.8	48	4
			m/p-xylene	µg/L	1	13	12	38	1
			o-xylene	µg/L	0.5	5.5	5.5	39	2
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	0.6	0.6	111	5
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.6	10	30	6
			d8-toluene (Surrogate)	µg/L	-	9.7	10	30	7
			Bromofluorobenzene (Surrogate)	µg/L	-	11	11	30	4
		Totals	Total BTEX	µg/L	3	41	41	37	0

Volatile Petroleum Hydrocarbons in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.014	LB286110.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.2	6.9	50	5
			d8-toluene (Surrogate)	mg/kg	-	10.4	10.0	50	4
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.2	8.1	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
SE251074.023	LB286110.024		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	-	8.6	8.6	50	1
			d8-toluene (Surrogate)	mg/kg	-	10.0	9.9	50	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.4	7.6	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
SE251074.034	LB286112.014		TRH C6-C10	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 give a different calculated RPD.

Volatile Petroleum Hydrocarbons in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251074.034	LB286112.014		TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.3	11.8	50	5
			d8-toluene (Surrogate)	mg/kg	-	8.6	9.8	50	13
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.0	11.1	50	11
		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
SE251074.043	LB286112.026		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	-	12.1	12.0655599212	50	0
			d8-toluene (Surrogate)	mg/kg	-	9.4	9.0613973584	50	4
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.6	10.372395199(	50	2
		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	200	0

Volatile Petroleum Hydrocarbons in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE251081.001	LB286219.024		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	12	9.3	30	22
			d8-toluene (Surrogate)	µg/L	-	11	9.4	30	20
			Bromofluorobenzene (Surrogate)	µg/L	-	10	11	30	10
		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
SE251218.001	LB286219.025		TRH C6-C10	µg/L	50	110	130	72	17
			TRH C6-C9	µg/L	40	97	110	68	16
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.6	10	30	6
			d8-toluene (Surrogate)	µg/L	-	9.7	10	30	7
			Bromofluorobenzene (Surrogate)	µg/L	-	11	11	30	4
		VPH F Bands	Benzene (F0)	µg/L	0.5	5.7	5.9	39	4
			TRH C6-C10 minus BTEX (F1)	µg/L	50	67	87	95	27

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 %
LB286096.002	Mercury	mg/kg	0.05	0.21	0.2	80 - 120	104
LB286097.002	Mercury	mg/kg	0.05	0.23	0.2	80 - 120	116

OC Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286104.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	83
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	91
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	87
		Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	88
		Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	96
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	95
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.13	0.15	40 - 130	87
LB286105.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	105
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	114
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	109
		Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	111
		Endrin	mg/kg	0.2	0.2	0.2	60 - 140	116
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	106
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.15	40 - 130	107

OC Pesticides in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286199.002		Delta BHC	µg/L	0.1	0.2	0.2	60 - 140	84
		Heptachlor	µg/L	0.1	0.2	0.2	60 - 140	86
		Aldrin	µg/L	0.1	0.2	0.2	60 - 140	81
		Dieldrin	µg/L	0.1	0.2	0.2	60 - 140	83
		Endrin	µg/L	0.1	0.2	0.2	60 - 140	85
		p,p'-DDT	µg/L	0.1	0.2	0.2	60 - 140	95
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.12	0.15	40 - 130	79

OP Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286104.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.8	2	60 - 140	90
		Diazinon (Dimpylate)	mg/kg	0.5	1.8	2	60 - 140	91
		Dichlorvos	mg/kg	0.5	1.5	2	60 - 140	73
		Ethion	mg/kg	0.2	1.7	2	60 - 140	84
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	81
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	96
LB286105.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.7	2	60 - 140	87
		Diazinon (Dimpylate)	mg/kg	0.5	1.8	2	60 - 140	88
		Dichlorvos	mg/kg	0.5	1.4	2	60 - 140	68
		Ethion	mg/kg	0.2	1.6	2	60 - 140	79
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	92
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	107

OP Pesticides in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286199.002		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	7.2	8	60 - 140	90
		Diazinon (Dimpylate)	µg/L	0.5	7.2	8	60 - 140	90
		Dichlorvos	µg/L	0.5	6.1	8	60 - 140	76
		Ethion	µg/L	0.2	7.2	8	60 - 140	90
	Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	52
		d14-p-terphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	62

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286104.002	Naphthalene	mg/kg	0.1	3.3	4	60 - 140	83
	Acenaphthylene	mg/kg	0.1	3.4	4	60 - 140	84
	Acenaphthene	mg/kg	0.1	3.6	4	60 - 140	89
	Phenanthrene	mg/kg	0.1	3.5	4	60 - 140	88
	Anthracene	mg/kg	0.1	3.5	4	60 - 140	87
	Fluoranthene	mg/kg	0.1	3.4	4	60 - 140	84

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 %
LB286104.002		Pyrene	mg/kg	0.1	3.5	4	60 - 140	88
		Benzo(a)pyrene	mg/kg	0.1	3.3	4	60 - 140	84
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	83
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	81
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	96
LB286105.002		Naphthalene	mg/kg	0.1	3.4	4	60 - 140	85
		Acenaphthylene	mg/kg	0.1	3.5	4	60 - 140	88
		Acenaphthene	mg/kg	0.1	3.8	4	60 - 140	94
		Phenanthrene	mg/kg	0.1	3.7	4	60 - 140	91
		Anthracene	mg/kg	0.1	3.6	4	60 - 140	91
		Fluoranthene	mg/kg	0.1	3.5	4	60 - 140	88
		Pyrene	mg/kg	0.1	3.7	4	60 - 140	92
		Benzo(a)pyrene	mg/kg	0.1	3.5	4	60 - 140	87
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	90
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	92
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	107

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286199.002		Naphthalene	µg/L	0.1	38	40	60 - 140	94
		Acenaphthylene	µg/L	0.1	42	40	60 - 140	104
		Acenaphthene	µg/L	0.1	41	40	60 - 140	101
		Phenanthrene	µg/L	0.1	39	40	60 - 140	98
		Anthracene	µg/L	0.1	40	40	60 - 140	100
		Fluoranthene	µg/L	0.1	42	40	60 - 140	105
		Pyrene	µg/L	0.1	42	40	60 - 140	104
		Benzo(a)pyrene	µg/L	0.1	41	40	60 - 140	104
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.2	0.5	40 - 130	48
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	52
		d14-p-terphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	62

Soluble Anions (1:5) in Soil/Solids by Ion Chromatography

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286316.002	Nitrate Nitrogen	mg/kg	0.05	9.6	10	70 - 130	96

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 %
LB286094.002	Arsenic, As	mg/kg	1	360	318.22	80 - 120	113
	Cadmium, Cd	mg/kg	0.3	5.0	4.81	70 - 130	104
	Chromium, Cr	mg/kg	0.5	44	38.31	80 - 120	116
	Copper, Cu	mg/kg	0.5	330	290	80 - 120	114
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	109
	Lead, Pb	mg/kg	1	98	89.9	80 - 120	109
	Zinc, Zn	mg/kg	2	300	273	80 - 120	109
LB286095.002	Arsenic, As	mg/kg	1	360	318.22	80 - 120	113
	Cadmium, Cd	mg/kg	0.3	5.1	4.81	70 - 130	106
	Chromium, Cr	mg/kg	0.5	45	38.31	80 - 120	117
	Copper, Cu	mg/kg	0.5	340	290	80 - 120	116
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	107
	Lead, Pb	mg/kg	1	98	89.9	80 - 120	109
	Zinc, Zn	mg/kg	2	300	273	80 - 120	109
LB286107.002	Lead, Pb	mg/kg	1	92	89.9	80 - 120	103

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286192.002	Arsenic	µg/L	1	20	20	80 - 120	100
	Cadmium	µg/L	0.1	20	20	80 - 120	102
	Chromium	µg/L	1	20	20	80 - 120	99
	Copper	µg/L	1	20	20	80 - 120	98
	Lead	µg/L	1	21	20	80 - 120	104
	Nickel	µg/L	1	21	20	80 - 120	103

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Trace Metals (Dissolved) in Water by ICPMS (continued)

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286192.002	Zinc	µg/L	5	21	20	80 - 120	104

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286104.002		TRH C10-C14	mg/kg	20	42	40	60 - 140	106
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	99
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	80
	TRH F Bands	TRH >C10-C16	mg/kg	25	42	40	60 - 140	105
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	89
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	79
LB286105.002		TRH C10-C14	mg/kg	20	41	40	60 - 140	103
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	99
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	88
	TRH F Bands	TRH >C10-C16	mg/kg	25	42	40	60 - 140	104
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	96
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	82

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286199.002		TRH C10-C14	µg/L	50	910	1200	60 - 140	75
		TRH C15-C28	µg/L	200	1100	1200	60 - 140	93
		TRH C29-C36	µg/L	200	1000	1200	60 - 140	87
	TRH F Bands	TRH >C10-C16	µg/L	60	1000	1200	60 - 140	83
		TRH >C16-C34 (F3)	µg/L	500	1100	1200	60 - 140	92
		TRH >C34-C40 (F4)	µg/L	500	530	600	60 - 140	89

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286110.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.8	5	60 - 140	96
		Toluene	mg/kg	0.1	4.6	5	60 - 140	92
		Ethylbenzene	mg/kg	0.1	4.6	5	60 - 140	93
		m/p-xylene	mg/kg	0.2	9.5	10	60 - 140	95
		o-xylene	mg/kg	0.1	4.8	5	60 - 140	96
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.6	10	70 - 130	96
		d8-toluene (Surrogate)	mg/kg	-	11.6	10	70 - 130	116
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.4	10	70 - 130	104
LB286112.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.5	5	60 - 140	89
		Toluene	mg/kg	0.1	4.2	5	60 - 140	83
		Ethylbenzene	mg/kg	0.1	4.4	5	60 - 140	87
		m/p-xylene	mg/kg	0.2	8.7	10	60 - 140	87
		o-xylene	mg/kg	0.1	4.4	5	60 - 140	87
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.0	10	70 - 130	100
		d8-toluene (Surrogate)	mg/kg	-	10.1	10	70 - 130	101
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.6	10	70 - 130	96

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286219.002	Monocyclic Aromatic	Benzene	µg/L	0.5	47	45.45	60 - 140	102
		Toluene	µg/L	0.5	51	45.45	60 - 140	112
		Ethylbenzene	µg/L	0.5	47	45.45	60 - 140	104
		m/p-xylene	µg/L	1	95	90.9	60 - 140	105
		o-xylene	µg/L	0.5	48	45.45	60 - 140	105
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.7	10	60 - 140	107
		d8-toluene (Surrogate)	µg/L	-	12.3	10	70 - 130	123
		Bromofluorobenzene (Surrogate)	µg/L	-	12.8	10	70 - 130	128

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286110.002		TRH C6-C10	mg/kg	25	110	92.5	60 - 140	114
		TRH C6-C9	mg/kg	20	91	80	60 - 140	114
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.6	10	70 - 130	96
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.4	10	70 - 130	104
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	77	62.5	60 - 140	124

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Volatile Petroleum Hydrocarbons in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286112.002		TRH C6-C10	mg/kg	25	93	92.5	60 - 140	101
		TRH C6-C9	mg/kg	20	80	80	60 - 140	101
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.0	10	70 - 130	100
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.6	10	70 - 130	96
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	67	62.5	60 - 140	107

Volatile Petroleum Hydrocarbons in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB286219.002		TRH C6-C10	µg/L	50	810	946.63	60 - 140	85
		TRH C6-C9	µg/L	40	700	818.71	60 - 140	85
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.7	10	60 - 140	107
		d8-toluene (Surrogate)	µg/L	-	12.3	10	70 - 130	123
		Bromofluorobenzene (Surrogate)	µg/L	-	12.8	10	70 - 130	128
	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%
SE251074.046	LB286195.004	Mercury	mg/L	0.0001	0.0018	<0.0001	0.008	91

Mercury in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE251074.001	LB286096.004	Mercury	mg/kg	0.05	0.21	<0.05	0.2	97
SE251074.024	LB286097.004	Mercury	mg/kg	0.05	0.23	<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%
SE251074.001	LB286104.004		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
			Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	-	-
			Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	85
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	93
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	88
			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	90
			Endrin	mg/kg	0.2	<0.2	<0.2	0.2	97
			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	97
			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	-	0.13	0.12	-	88
SE251074.024	LB286105.004		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	111
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	120
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	113
			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	112
			Endrin	mg/kg	0.2	0.2	<0.2	0.2	110
			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	-	-

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%
SE251074.024	LB286105.004		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	112
			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	0.17	-	118

OP Pesticides in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE251074.001	LB286104.004		Azinphos-methyl (Guthion)	mg/kg	0.2	1.4	<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.8	<0.2	2	88
			Diazinon (Dimpylate)	mg/kg	0.5	1.8	<0.5	2	88
			Dichlorvos	mg/kg	0.5	1.4	<0.5	2	71
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	1.6	<0.2	2	82
			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	8.1	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	80
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	91
SE251074.024	LB286105.004		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	1.8	<0.2	2	91
			Diazinon (Dimpylate)	mg/kg	0.5	1.8	<0.5	2	92
			Dichlorvos	mg/kg	0.5	1.5	<0.5	2	77
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	1.7	<0.2	2	86
			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	6.9	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	81
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	94

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE251074.001	LB286104.004	Naphthalene	mg/kg	0.1	3.2	<0.1	4	79
		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	3.2	<0.1	4	80
		Acenaphthene	mg/kg	0.1	3.5	<0.1	4	87
		Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
		Phenanthrene	mg/kg	0.1	3.4	<0.1	4	84
		Anthracene	mg/kg	0.1	3.3	<0.1	4	83
		Fluoranthene	mg/kg	0.1	3.2	<0.1	4	81
		Pyrene	mg/kg	0.1	3.3	<0.1	4	83
		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	3.2	<0.1	4	79
		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	-	-

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%
SE251074.001	LB286104.004		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	3.2	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	3.2	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	3.3	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	26	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	-	77
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	80
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	91
SE251074.024	LB286105.004		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	3.4	<0.1	4	85
			Acenaphthene	mg/kg	0.1	3.7	<0.1	4	92
			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	89
			Fluoranthene	mg/kg	0.1	3.5	<0.1	4	88
			Pyrene	mg/kg	0.1	3.5	<0.1	4	87
			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	3.4	<0.1	4	85
			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	3.4	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	3.5	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	3.6	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	28	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	-	82
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	-	81
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	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%
SE251074.001	LB286094.004	Arsenic, As	mg/kg	1	50	2	50	96
		Cadmium, Cd	mg/kg	0.3	44	<0.3	50	88
		Chromium, Cr	mg/kg	0.5	75	33	50	85
		Copper, Cu	mg/kg	0.5	52	<0.5	50	104
		Nickel, Ni	mg/kg	0.5	52	1.7	50	100
		Lead, Pb	mg/kg	1	64	8	50	112
		Zinc, Zn	mg/kg	2	75	12	50	126
SE251074.005	LB286107.004	Lead, Pb	mg/kg	1	53	7	50	91
SE251074.024	LB286095.004	Arsenic, As	mg/kg	1	52	3	50	99
		Cadmium, Cd	mg/kg	0.3	44	<0.3	50	89
		Chromium, Cr	mg/kg	0.5	64	15	50	98
		Copper, Cu	mg/kg	0.5	57	3.6	50	106
		Nickel, Ni	mg/kg	0.5	53	1.6	50	102
		Lead, Pb	mg/kg	1	64	15	50	98
		Zinc, Zn	mg/kg	2	100	49	50	111

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE251074.001	LB286104.004		TRH C10-C14	mg/kg	20	47	<20	40	114
			TRH C15-C28	mg/kg	45	52	<45	40	113
			TRH C29-C36	mg/kg	45	<45	<45	40	86
			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	48	<25	40	115
		Bands	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	48	<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%
SE251074.001	LB286104.004	TRH F Bands	TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	99
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE251074.024	LB286105.004		TRH C10-C14	mg/kg	20	53	<20	40	132
			TRH C15-C28	mg/kg	45	<45	<45	40	111
			TRH C29-C36	mg/kg	45	<45	<45	40	103
			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	52	<25	40	131
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	52	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	126
			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%
SE251074.001	LB286110.004	Monocyclic Aromatic	Benzene	mg/kg	0.1	5.1	<0.1	5	102
			Toluene	mg/kg	0.1	5.0	<0.1	5	99
			Ethylbenzene	mg/kg	0.1	5.1	<0.1	5	103
			m/p-xylene	mg/kg	0.2	11	<0.2	10	106
			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	-	8.9	8.1	10	89
			d8-toluene (Surrogate)	mg/kg	-	10.6	9.7	10	106
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.7	7.6	10	97
		Totals	Total BTEX*	mg/kg	0.6	31	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	16	<0.3	-	-
SE251074.024	LB286112.004	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.5	<0.1	5	90
			Toluene	mg/kg	0.1	5.0	<0.1	5	100
			Ethylbenzene	mg/kg	0.1	4.7	<0.1	5	94
			m/p-xylene	mg/kg	0.2	9.7	<0.2	10	97
			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	-	9.2	11.4	10	92
			d8-toluene (Surrogate)	mg/kg	-	9.3	9.5	10	93
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.4	9.6	10	94
		Totals	Total BTEX*	mg/kg	0.6	29	<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%
SE251074.001	LB286110.004		TRH C6-C10	mg/kg	25	110	<25	92.5	121
			TRH C6-C9	mg/kg	20	97	<20	80	121
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.9	8.1	10	89
			d8-toluene (Surrogate)	mg/kg	-	10.6	9.7	10	106
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.7	7.6	-	97
		VPH F Bands	Benzene (F0)	mg/kg	0.1	5.1	<0.1	-	-
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	81	<25	62.5	128
SE251074.024	LB286112.004		TRH C6-C10	mg/kg	25	85	<25	92.5	88
			TRH C6-C9	mg/kg	20	72	<20	80	86
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.2	11.4	10	92
			d8-toluene (Surrogate)	mg/kg	-	9.3	9.5	10	93
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.4	9.6	-	94
		VPH F Bands	Benzene (F0)	mg/kg	0.1	4.5	<0.1	-	-
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	57	<25	62.5	84

MATRIX SPIKE DUPLICATES

SE251074 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.

id samples expressed on a dry weight basis.

criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found he
ps://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.

SAMPLE RECEIPT ADVICE

SE251074

CLIENT DETAILS

Contact	Admin
Client	NEO CONSULTING PTY LTD
Address	PO BOX 279 RIVERSTONE NSW 2765
Telephone	0416 680 375
Facsimile	(Not specified)
Email	admin@neoconsulting.com.au
Project	**N6382**
Order Number	**N6382**
Samples	46

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 20/7/2023
Report Due	Thu 27/7/2023
SGS Reference	**SE251074**

SUBMISSION DETAILS

This is to confirm that 46 samples were received on Thursday 20/7/2023. Results are expected to be ready by COB Thursday 27/7/2023. Please quote SGS reference SE251074 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	45 Soil. 1 Water	Type of documentation received	COC
Date documentation received	20/7/2023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	8.6°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

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

SAMPLE RECEIPT ADVICE

SE251074

CLIENT DETAILS

Client NEO CONSULTING PTY LTD

Project N6382

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	Soluble Anions (1:5) in Soil/Solids by Ion	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	BH1.1	30	14	26	-	7	10	11	7
002	BH1.2	30	14	26	-	7	10	11	7
003	BH2.1	30	14	26	-	7	10	11	7
004	BH2.2	30	14	26	-	7	10	11	7
005	BH3.1	-	-	-	-	1	-	-	-
006	BH3.2	-	-	-	-	1	-	-	-
007	BH4.1	30	14	26	1	7	10	11	7
008	BH4.2	30	14	26	1	7	10	11	7
009	BH5.1	30	14	26	-	7	10	11	7
010	BH6.1	30	14	26	-	7	10	11	7
011	BH6.2	30	14	26	-	7	10	11	7
012	BH7.1	-	-	-	-	1	-	-	-
013	BH7.2	-	-	-	-	1	-	-	-
014	BH8.1	30	14	26	-	7	10	11	7
015	BH8.2	30	14	26	-	7	10	11	7
016	BH9.1	30	14	26	-	7	10	11	7
017	BH9.2	30	14	26	-	7	10	11	7
018	BH10.1	30	14	26	-	7	10	11	7
019	BH11.1	30	14	26	-	7	10	11	7
020	BH12.1	30	14	26	-	7	10	11	7
021	HB13.1	30	14	26	-	7	10	11	7
022	BH13.2	30	14	26	-	7	10	11	7
023	BH14.1	30	14	26	-	7	10	11	7
024	BH15.1	30	14	26	-	7	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 .
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SAMPLE RECEIPT ADVICE

SE251074

CLIENT DETAILS

Client NEO CONSULTING PTY LTD

Project N6382

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	Soluble Anions (1:5) in Soil/Solids by Ion	Total Recoverable Elements in Soil/Waste	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
025	BH15.2	30	14	26	-	7	10	11	7
026	BH16.1	30	14	26	-	7	10	11	7
027	BH17.1	30	14	26	-	7	10	11	7
028	BH17.2	30	14	26	-	7	10	11	7
029	BH18.1	30	14	26	-	7	10	11	7
030	BH18.2	-	-	-	-	7	-	-	-
031	BH19.1	30	14	26	-	7	10	11	7
032	BH19.2	30	14	26	-	7	10	11	7
033	BH20.1	30	14	26	1	7	10	11	7
034	BH20.2	30	14	26	1	7	10	11	7
035	BH21.1	30	14	26	-	7	10	11	7
036	BH21.2	-	-	-	-	7	-	-	-
037	BH22.1	30	14	26	-	7	10	11	7
038	BH22.2	-	-	-	-	1	-	-	-
039	BH23.1	30	14	26	-	7	10	11	7
040	BH24.1	30	14	26	-	7	10	11	7
041	D1	30	14	26	-	7	10	11	7
042	D2	30	14	26	-	7	10	11	7
043	D3	30	14	26	-	7	10	11	7
044	Trip Spike	-	-	-	-	-	-	11	-
045	Trip Blank	-	-	-	-	-	-	11	-

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

SE251074

CLIENT DETAILS

Client NEO CONSULTING PTY LTD

Project N6382

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Gravimetric Determination of Asbestos in Soil	Mercury in Soil	Moisture Content
001	BH1.1	2	9	1	1
002	BH1.2	-	-	1	1
003	BH2.1	2	9	1	1
004	BH2.2	-	-	1	1
005	BH3.1	2	9	-	1
006	BH3.2	-	-	-	1
007	BH4.1	2	9	1	1
008	BH4.2	-	-	1	1
009	BH5.1	2	9	1	1
010	BH6.1	2	-	1	1
011	BH6.2	-	-	1	1
012	BH7.1	2	9	-	1
013	BH7.2	-	-	-	1
014	BH8.1	2	9	1	1
015	BH8.2	-	-	1	1
016	BH9.1	2	9	1	1
017	BH9.2	-	-	1	1
018	BH10.1	2	-	1	1
019	BH11.1	2	-	1	1
020	BH12.1	2	-	1	1
021	HB13.1	2	9	1	1
022	BH13.2	-	-	1	1
023	BH14.1	2	-	1	1
024	BH15.1	2	9	1	1

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE251074

CLIENT DETAILS

Client NEO CONSULTING PTY LTD

Project N6382

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre Identification in soil	Gravimetric Determination of Asbestos in Soil	Mercury in Soil	Moisture Content
025	BH15.2	-	-	1	1
026	BH16.1	2	9	1	1
027	BH17.1	2	9	1	1
028	BH17.2	-	-	1	1
029	BH18.1	2	-	1	1
030	BH18.2	-	-	1	1
031	BH19.1	2	-	1	1
032	BH19.2	-	-	1	1
033	BH20.1	2	9	1	1
034	BH20.2	-	-	1	1
035	BH21.1	2	-	1	1
036	BH21.2	-	-	1	1
037	BH22.1	2	-	1	1
038	BH22.2	-	-	-	1
039	BH23.1	2	-	1	1
040	BH24.1	2	-	1	1
041	D1	-	-	1	1
042	D2	-	-	1	1
043	D3	-	-	1	1
045	Trip Blank	-	-	-	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE251074

CLIENT DETAILS

Client NEO CONSULTING PTY LTD

Project N6382

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	OC Pesticides in Water	OP Pesticides in Water	PAH (Polynuclear Aromatic Hydrocarbons) in Water	Trace Metals (Dissolved) in Water by ICPMS	TRH (Total Recoverable Hydrocarbons) in Water	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
046	Rinsate	1	30	13	22	7	9	11	7

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

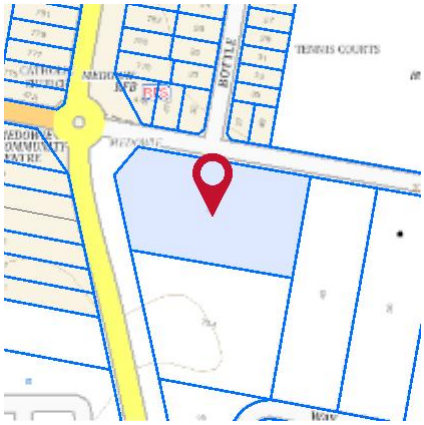
NEO CONSULTING

APPENDIX C

Property Report and Relevant Site Data

Property Report

46 FERODALE ROAD MEDOWIE 2318



Property Details

Address:	46 FERODALE ROAD MEDOWIE 2318
Lot/Section /Plan No:	7/-/DP243518
Council:	PORT STEPHENS COUNCIL

Summary of planning controls

Planning controls held within the Planning Database are summarised below. The property may be affected by additional planning controls not outlined in this report. Please contact your council for more information.

Local Environmental Plans	Port Stephens Local Environmental Plan 2013 (pub. 12-5-2023)
Land Zoning	RU2 - Rural Landscape: (pub. 12-5-2023)
Height Of Building	NA
Floor Space Ratio	NA
Minimum Lot Size	20 ha
Heritage	NA
Land Reservation Acquisition	NA
Foreshore Building Line	NA
Acid Sulfate Soils	Class 5
Drinking Water Catchment	Drinking Water Catchment

Detailed planning information

State Environmental Planning Policies which apply to this property

State Environmental Planning Policies can specify planning controls for certain areas and/or types of development. They can also identify the development assessment system that applies and the type of environmental assessment that is required.

- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Allowable Clearing Area (pub. 21-10-2022)
- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004: Land Application (pub. 25-6-2004)
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008: Land Application (pub. 12-12-2008)
- State Environmental Planning Policy (Housing) 2021: Land Application (pub. 26-11-2021)
- State Environmental Planning Policy (Industry and Employment) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Planning Systems) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Primary Production) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Resilience and Hazards) 2021: Land Application (pub. 2 -12-2021)
- State Environmental Planning Policy (Resources and Energy) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Transport and Infrastructure) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development: Land Application (pub. 26-7-2002)

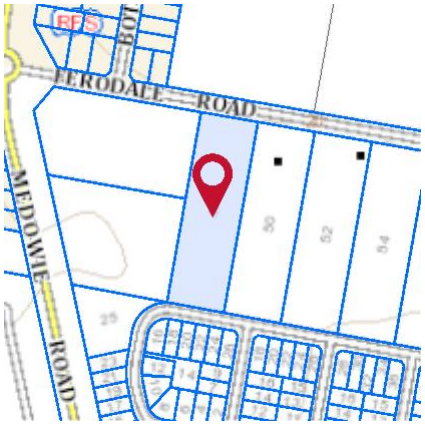
Other matters affecting the property

Information held in the Planning Database about other matters affecting the property appears below. The property may also be affected by additional planning controls not outlined in this report. Please speak to your council for more information

1.5 m Buffer around Classified Roads	Classified Road Adjacent
Bushfire Prone Land	Vegetation Category
Local Aboriginal Land Council	WORIMI
Regional Plan Boundary	Hunter

Property Report

48 FERODALE ROAD MEDOWIE 2318



Property Details

Address:	48 FERODALE ROAD MEDOWIE 2318
Lot/Section /Plan No:	6/-/DP243518
Council:	PORT STEPHENS COUNCIL

Summary of planning controls

Planning controls held within the Planning Database are summarised below. The property may be affected by additional planning controls not outlined in this report. Please contact your council for more information.

Local Environmental Plans	Port Stephens Local Environmental Plan 2013 (pub. 12-5-2023)
Land Zoning	RU2 - Rural Landscape: (pub. 12-5-2023)
Height Of Building	NA
Floor Space Ratio	NA
Minimum Lot Size	20 ha
Heritage	NA
Land Reservation Acquisition	NA
Foreshore Building Line	NA
Acid Sulfate Soils	Class 5
Drinking Water Catchment	Drinking Water Catchment
Wetlands	Wetland

Detailed planning information

State Environmental Planning Policies which apply to this property

State Environmental Planning Policies can specify planning controls for certain areas and/or types of development. They can also identify the development assessment system that applies and the type of environmental assessment that is required.

- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Allowable Clearing Area (pub. 21-10-2022)
- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004: Land Application (pub. 25-6-2004)
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008: Land Application (pub. 12-12-2008)
- State Environmental Planning Policy (Housing) 2021: Land Application (pub. 26-11-2021)
- State Environmental Planning Policy (Industry and Employment) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Planning Systems) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Primary Production) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Resilience and Hazards) 2021: Land Application (pub. 2 -12-2021)
- State Environmental Planning Policy (Resources and Energy) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Transport and Infrastructure) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development: Land Application (pub. 26-7-2002)

Other matters affecting the property

Information held in the Planning Database about other matters affecting the property appears below. The property may also be affected by additional planning controls not outlined in this report. Please speak to your council for more information

Biodiversity Value (BV) Map	Clearing native vegetation for a development on an area on the BV Map may require a Biodiversity Development Assessment Report. Consult your local council.
Bushfire Prone Land	Vegetation Category
Local Aboriginal Land Council	WORIMI
Regional Plan Boundary	Hunter

Property Report

50 FERODALE ROAD MEDOWIE 2318

Property Details

Address:	50 FERODALE ROAD MEDOWIE 2318
Lot/Section /Plan No:	5/-/DP243518
Council:	PORT STEPHENS COUNCIL

Summary of planning controls

Planning controls held within the Planning Database are summarised below. The property may be affected by additional planning controls not outlined in this report. Please contact your council for more information.

Local Environmental Plans	Port Stephens Local Environmental Plan 2013 (pub. 12-5-2023)
Land Zoning	RU2 - Rural Landscape: (pub. 12-5-2023)
Height Of Building	NA
Floor Space Ratio	NA
Minimum Lot Size	20 ha
Heritage	NA
Land Reservation Acquisition	NA
Foreshore Building Line	NA
Acid Sulfate Soils	Class 5
Drinking Water Catchment	Drinking Water Catchment

Detailed planning information

State Environmental Planning Policies which apply to this property

State Environmental Planning Policies can specify planning controls for certain areas and/or types of development. They can also identify the development assessment system that applies and the type of environmental assessment that is required.

- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Allowable Clearing Area (pub. 21-10-2022)
- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004: Land Application (pub. 25-6-2004)
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008: Land Application (pub. 12-12-2008)
- State Environmental Planning Policy (Housing) 2021: Land Application (pub. 26-11-2021)
- State Environmental Planning Policy (Industry and Employment) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Planning Systems) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Primary Production) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Resilience and Hazards) 2021: Land Application (pub. 2 -12-2021)
- State Environmental Planning Policy (Resources and Energy) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Transport and Infrastructure) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development: Land Application (pub. 26-7-2002)

Other matters affecting the property

Information held in the Planning Database about other matters affecting the property appears below. The property may also be affected by additional planning controls not outlined in this report. Please speak to your council for more information

Bushfire Prone Land	Vegetation Category
Local Aboriginal Land Council	WORIMI
Regional Plan Boundary	Hunter

Property Report

52 FERODALE ROAD MEDOWIE 2318

Property Details

Address:	52 FERODALE ROAD MEDOWIE 2318
Lot/Section /Plan No:	4/-/DP243518
Council:	PORT STEPHENS COUNCIL

Summary of planning controls

Planning controls held within the Planning Database are summarised below. The property may be affected by additional planning controls not outlined in this report. Please contact your council for more information.

Local Environmental Plans	Port Stephens Local Environmental Plan 2013 (pub. 12-5-2023)
Land Zoning	RU2 - Rural Landscape: (pub. 12-5-2023)
Height Of Building	NA
Floor Space Ratio	NA
Minimum Lot Size	20 ha
Heritage	NA
Land Reservation Acquisition	NA
Foreshore Building Line	NA
Acid Sulfate Soils	Class 5
Drinking Water Catchment	Drinking Water Catchment
Wetlands	Wetland

Detailed planning information

State Environmental Planning Policies which apply to this property

State Environmental Planning Policies can specify planning controls for certain areas and/or types of development. They can also identify the development assessment system that applies and the type of environmental assessment that is required.

- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Allowable Clearing Area (pub. 21-10-2022)
- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004: Land Application (pub. 25-6-2004)
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008: Land Application (pub. 12-12-2008)
- State Environmental Planning Policy (Housing) 2021: Land Application (pub. 26-11-2021)
- State Environmental Planning Policy (Industry and Employment) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Planning Systems) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Primary Production) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Resilience and Hazards) 2021: Land Application (pub. 2 -12-2021)
- State Environmental Planning Policy (Resources and Energy) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Transport and Infrastructure) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development: Land Application (pub. 26-7-2002)

Other matters affecting the property

Information held in the Planning Database about other matters affecting the property appears below. The property may also be affected by additional planning controls not outlined in this report. Please speak to your council for more information

Bushfire Prone Land	Vegetation Category
Local Aboriginal Land Council	WORIMI
Regional Plan Boundary	Hunter

Property Report

54 FERODALE ROAD MEDOWIE 2318

Property Details

Address:	54 FERODALE ROAD MEDOWIE 2318
Lot/Section /Plan No:	3/-/DP243518
Council:	PORT STEPHENS COUNCIL

Summary of planning controls

Planning controls held within the Planning Database are summarised below. The property may be affected by additional planning controls not outlined in this report. Please contact your council for more information.

Local Environmental Plans	Port Stephens Local Environmental Plan 2013 (pub. 12-5-2023)
Land Zoning	RU2 - Rural Landscape: (pub. 12-5-2023)
Height Of Building	NA
Floor Space Ratio	NA
Minimum Lot Size	20 ha
Heritage	NA
Land Reservation Acquisition	NA
Foreshore Building Line	NA
Acid Sulfate Soils	Class 5
Drinking Water Catchment	Drinking Water Catchment
Wetlands	Wetland

Detailed planning information

State Environmental Planning Policies which apply to this property

State Environmental Planning Policies can specify planning controls for certain areas and/or types of development. They can also identify the development assessment system that applies and the type of environmental assessment that is required.

- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Allowable Clearing Area (pub. 21-10-2022)
- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Land Application (pub. 2-12-2021)
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- State Environmental Planning Policy (Planning Systems) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Primary Production) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Resilience and Hazards) 2021: Land Application (pub. 2 -12-2021)
- State Environmental Planning Policy (Resources and Energy) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Transport and Infrastructure) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development: Land Application (pub. 26-7-2002)

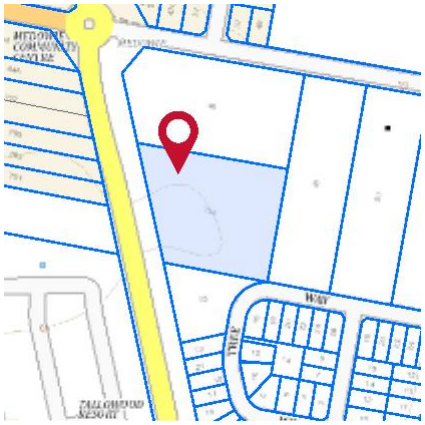
Other matters affecting the property

Information held in the Planning Database about other matters affecting the property appears below. The property may also be affected by additional planning controls not outlined in this report. Please speak to your council for more information

Bushfire Prone Land	Vegetation Buffer
	Vegetation Category
Local Aboriginal Land Council	WORIMI
Regional Plan Boundary	Hunter

Property Report

754 MEDOWIE ROAD MEDOWIE 2318



Property Details

Address:	754 MEDOWIE ROAD MEDOWIE 2318
Lot/Section /Plan No:	8/-/DP243518
Council:	PORT STEPHENS COUNCIL

Summary of planning controls

Planning controls held within the Planning Database are summarised below. The property may be affected by additional planning controls not outlined in this report. Please contact your council for more information.

Local Environmental Plans	Port Stephens Local Environmental Plan 2013 (pub. 12-5-2023)
Land Zoning	RU2 - Rural Landscape: (pub. 12-5-2023)
Height Of Building	NA
Floor Space Ratio	NA
Minimum Lot Size	20 ha
Heritage	NA
Land Reservation Acquisition	NA
Foreshore Building Line	NA
Acid Sulfate Soils	Class 5
Drinking Water Catchment	Drinking Water Catchment
Wetlands	Wetland

Detailed planning information

State Environmental Planning Policies which apply to this property

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- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004: Land Application (pub. 25-6-2004)
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008: Land Application (pub. 12-12-2008)
- State Environmental Planning Policy (Housing) 2021: Land Application (pub. 26-11-2021)
- State Environmental Planning Policy (Industry and Employment) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Planning Systems) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Primary Production) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Resilience and Hazards) 2021: Land Application (pub. 2 -12-2021)
- State Environmental Planning Policy (Resources and Energy) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Transport and Infrastructure) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development: Land Application (pub. 26-7-2002)

Other matters affecting the property

Information held in the Planning Database about other matters affecting the property appears below. The property may also be affected by additional planning controls not outlined in this report. Please speak to your council for more information

1.5 m Buffer around Classified Roads	Classified Road Adjacent
Biodiversity Value (BV) Map	Clearing native vegetation for a development on an area on the BV Map may require a Biodiversity Development Assessment Report. Consult your local council.
Bushfire Prone Land	Vegetation Category
Local Aboriginal Land Council	WORIMI
Regional Plan Boundary	Hunter

ADVANCE LEGAL SEARCHERS PTY LTD

(ACN 147 943 842)
ABN 82 147 943 842

18/36 Osborne Road,
Manly NSW 2095

Mobile: 0412 169 809

Email: search@alsearchers.com.au

12th July, 2023

NEO CONSULTING PTY LTD
PO Box 279
RIVERSTONE, NSW 2765

Attention: Stephanie Rafin,

RE: **46 & 54 Ferodale Road,**
Medowie
Reference N6382

Note 1:	**Lot 7**	**DP 243518**	**(No. 46)**	(Page 1)
Note 2:	**Lot 3**	**DP 243518**	**(No. 54)**	(Page 4)

Note 1:

Current Search

Folio Identifier 7/243518 (title attached)
DP 243518 (plan attached)
Dated 11th July, 2023
Registered Proprietor:
2 NORTH AVENUE PTY LTD *(ACN 158 690 987)*

Title Tree
Lot 7 DP 243518

Folio Identifier 7/243518

Certificate of Title Volume 11956 Folio 245

Certificate of Title Volume 5959 Folio 22

Certificate of Title Volume 5905 Folio 157

Certificate of Title Volume 4631 Folio 177

PA 18105

Conveyance Book 925 No. 465

****

Index

T – Transfer
ND – Notice of Death
CN – Change of Name
C – Conveyance

****

Summary of proprietor(s)
Lot 7 DP 243518

Year	Proprietor(s)	
	(**Lot 7 DP 243518)**	
02 Aug 2019 – todate	2 North Avenue Pty Ltd *(ACN 158 690 987)*	T
12 Sep 2017	Phillip John Downey	ND
19 Sep 1991	Phillip John Downey, assistant foreman Gwenneth Margaret Downey, his wife	CN
08 Jan 1988	Phillip John Downey, assistant foreman Margaret Downey, his wife	
	(Lot 7 DP 243518 – CTVol 11956 Fol 245)	
14 Oct 1980	Phillip John Downey, assistant foreman Margaret Downey, his wife	T
26 Oct 1972	George Malcolm Henderson, fitter	
	(Lot 223 DP 17437 – Area 26 Acres 1 Rood 19 ¾ Perches – CTVol 5959 Fol 22)	
21 Oct 1969	George Malcolm Henderson, fitter	T
06 May 1949	Richard Wallace Henderson, miner George Malcolm Henderson, fitter	T
	(Lots 223 DP 17437 and other land – Area 970 Acres 3 Roods 21 ¾ Perches – CTVol 5905 Fol 157)	
07 Dec 1948	Closer Settlement Limited	
	(Part Portion 146 Parish Stowell and other land – Area 1318 Acres 0 Roods 14 Perches – CTVol 4631 Fol 177)	
20 Jun 1934	Closer Settlement Limited	T
19 Jun 1934	Henry Ferdinand Halloran, registered surveyor	
	(Part Portion 146 Parish Stowell and other land – Conv Book 925 No. 465)	
18 Jan 1911	Henry Ferdinand Halloran, licensed surveyor	C

****

Note 2:

Current Search

Folio Identifier 3/243518 (title attached)
DP 243518 (plan attached)
Dated 11th July, 2023
Registered Proprietor:
2 NORTH AVENUE PTY LTD *(ACN 158 690 987)*

Title Tree
Lot 3 DP 243518

Folio Identifier 3/243518

Certificate of Title Volume 11956 Folio 241

Certificate of Title Volume 5959 Folio 22

Certificate of Title Volume 5905 Folio 157

Certificate of Title Volume 4631 Folio 177

PA 18105

Conveyance Book 925 No. 465

****

Index

T – Transfer
C – Conveyance

****

Summary of proprietor(s)
Lot 3 DP 243518

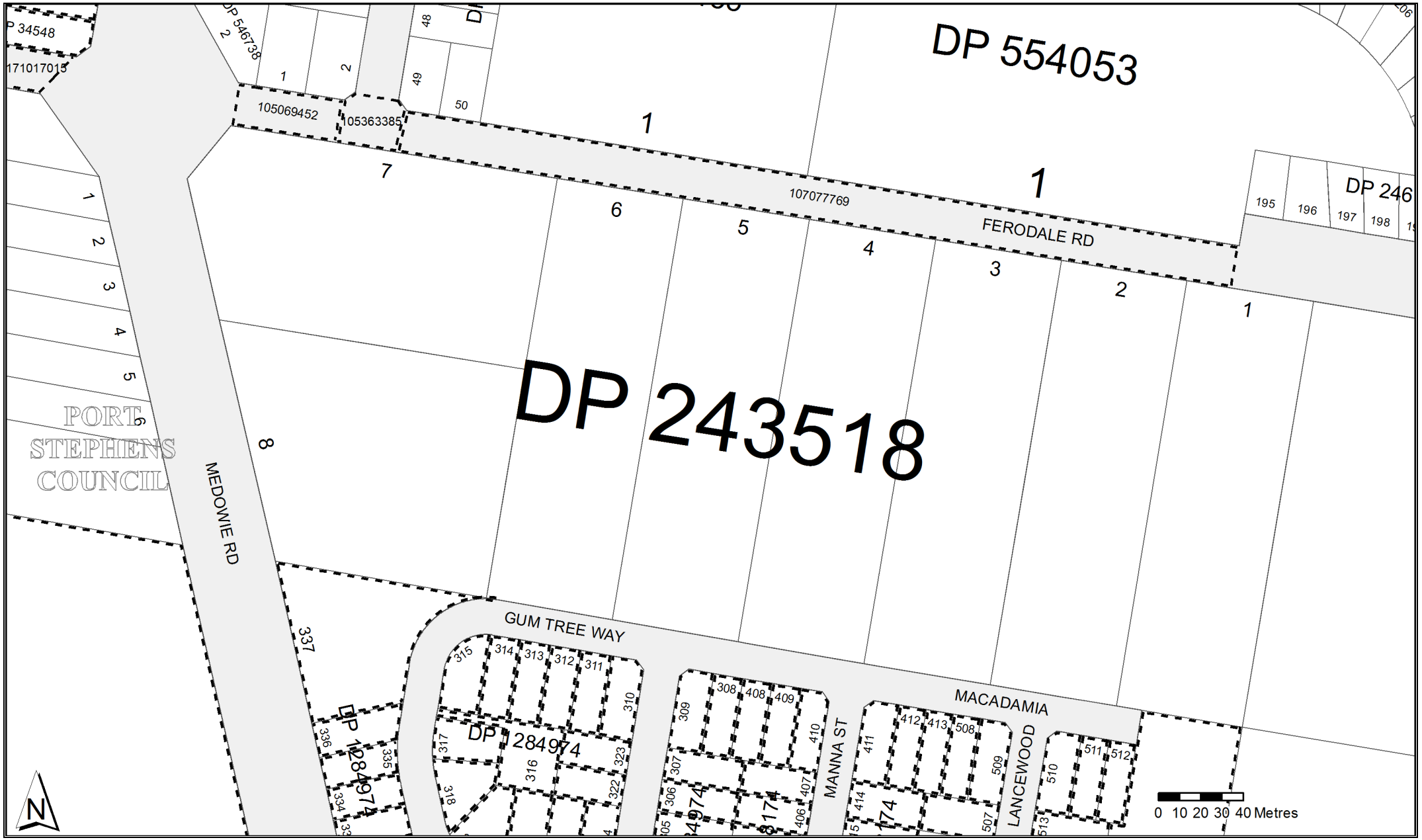
Year	Proprietor(s)	
	(**Lot 3 DP 243518)**	
09 Jan 2018 – todate	2 North Avenue Pty Ltd *(ACN 158 690 987)*	T
23 Jan 2001	Leigh Raymond Carmichael Kerrie Maureen Carmichael	T
23 Jun 1995	Michael James Johnson	T
08 Jan 1988	Michael James Johnson Robyn Leonie Johnson	
	(Lot 3 DP 243518 – CTVol 11956 Fol 241)	
10 Nov 1983	Michael James Johnson Robyn Leonie Johnson	T
28 Feb 1973	Alan Ray Brazil, member of australian airforce Susan Ann Boyd, spinster	T
26 Oct 1972	George Malcolm Henderson, fitter	
	(Lot 223 DP 17437 – Area 26 Acres 1 Rood 19 ¾ Perches – CTVol 5959 Fol 22)	
21 Oct 1969	George Malcolm Henderson, fitter	T
06 May 1949	Richard Wallace Henderson, miner George Malcolm Henderson, fitter	T
	(Lots 223 DP 17437 and other land – Area 970 Acres 3 Roods 21 ¾ Perches – CTVol 5905 Fol 157)	
07 Dec 1948	Closer Settlement Limited	
	(Part Portion 146 Parish Stowell and other land – Area 1318 Acres 0 Roods 14 Perches – CTVol 4631 Fol 177)	
20 Jun 1934	Closer Settlement Limited	T
19 Jun 1934	Henry Ferdinand Halloran, registered surveyor	
	(Part Portion 146 Parish Stowell and other land – Conv Book 925 No. 465)	
18 Jan 1911	Henry Ferdinand Halloran, licensed surveyor	C

****

Cadastral Records Enquiry Report : Lot 5 DP 243518

Ref : NOUSER

Locality : MEDOWIE
Parish : STOWELL
LGA : PORT STEPHENS
County : GLOUCESTER



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

	Status	Surv/Comp	Purpose
DP19101			
Lot(s): 2			
DP1295422	REGISTERED	COMPILATION	EASEMENT
DP1268666			
Lot(s): 10			
DP17437	HISTORICAL	SURVEY	UNRESEARCHED
DP19739	HISTORICAL	SURVEY	UNRESEARCHED
DP1262812	HISTORICAL	SURVEY	SUBDIVISION
DP1265096	HISTORICAL	COMPILATION	CONSOLIDATION
DP1284974			
Lot(s): 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 333, 334, 335, 336, 337			
DP17437	HISTORICAL	SURVEY	UNRESEARCHED
DP369073	HISTORICAL	SURVEY	UNRESEARCHED
DP567481	HISTORICAL	SURVEY	SUBDIVISION
DP855814	HISTORICAL	SURVEY	ROAD OR MOTORWAY
DP1263216	HISTORICAL	SURVEY	SUBDIVISION
DP1270580	HISTORICAL	SURVEY	SUBDIVISION
DP1276108	HISTORICAL	SURVEY	SUBDIVISION
DP1276109	HISTORICAL	SURVEY	SUBDIVISION
DP1276110	HISTORICAL	SURVEY	SUBDIVISION
DP1288174			
Lot(s): 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415			
DP17437	HISTORICAL	SURVEY	UNRESEARCHED
DP369073	HISTORICAL	SURVEY	UNRESEARCHED
DP567481	HISTORICAL	SURVEY	SUBDIVISION
DP855814	HISTORICAL	SURVEY	ROAD OR MOTORWAY
DP1263216	HISTORICAL	SURVEY	SUBDIVISION
DP1270580	HISTORICAL	SURVEY	SUBDIVISION
DP1276108	HISTORICAL	SURVEY	SUBDIVISION
DP1276109	HISTORICAL	SURVEY	SUBDIVISION
DP1276110	HISTORICAL	SURVEY	SUBDIVISION
DP1284974	HISTORICAL	SURVEY	SUBDIVISION
DP1291262			
Lot(s): 500, 507, 508, 509, 510, 511, 512, 513			
DP17437	HISTORICAL	SURVEY	UNRESEARCHED
DP369073	HISTORICAL	SURVEY	UNRESEARCHED
DP567481	HISTORICAL	SURVEY	SUBDIVISION
DP855814	HISTORICAL	SURVEY	ROAD OR MOTORWAY
DP1263216	HISTORICAL	SURVEY	SUBDIVISION
DP1270580	HISTORICAL	SURVEY	SUBDIVISION
DP1276108	HISTORICAL	SURVEY	SUBDIVISION
DP1276109	HISTORICAL	SURVEY	SUBDIVISION
DP1276110	HISTORICAL	SURVEY	SUBDIVISION
DP1284974	HISTORICAL	SURVEY	SUBDIVISION
DP1288174	HISTORICAL	SURVEY	SUBDIVISION
SP34548			
DP1295422	REGISTERED	COMPILATION	EASEMENT
Road			
Polygon Id(s): 105069452, 105363385, 107077769, 171017015			
NSW GAZ.	04-11-2016		Folio : 2930
TRANSFER OF CROWN ROAD TO COUNCIL			

Plan	Surv/Comp	Purpose
DP18438	SURVEY	UNRESEARCHED
DP19101	SURVEY	UNRESEARCHED
DP239682	SURVEY	SUBDIVISION
DP243518	SURVEY	SUBDIVISION
DP246947	SURVEY	SUBDIVISION
DP408155	SURVEY	UNRESEARCHED
DP508780	SURVEY	SUBDIVISION
DP546738	SURVEY	SUBDIVISION
DP554053	COMPILATION	SUBDIVISION
DP595932	SURVEY	RESUMPTION OR ACQUISITION
DP596640	SURVEY	SUBDIVISION
DP662386	COMPILATION	DEPARTMENTAL
DP1268666	SURVEY	SUBDIVISION
DP1284974	SURVEY	SUBDIVISION
DP1288174	SURVEY	SUBDIVISION
DP1291262	SURVEY	SUBDIVISION
SP34548	COMPILATION	STRATA PLAN

CERTIFICATE OF TITLE

NEW SOUTH WALES — REAL PROPERTY ACT, 1900

Appln.No.18105

Prior Title Vol.5959 Fol.22

Vol. 11956 Fol. 241

Edition issued 26-10-1972.

(Page 1) Vol. 11956 Fol. 241

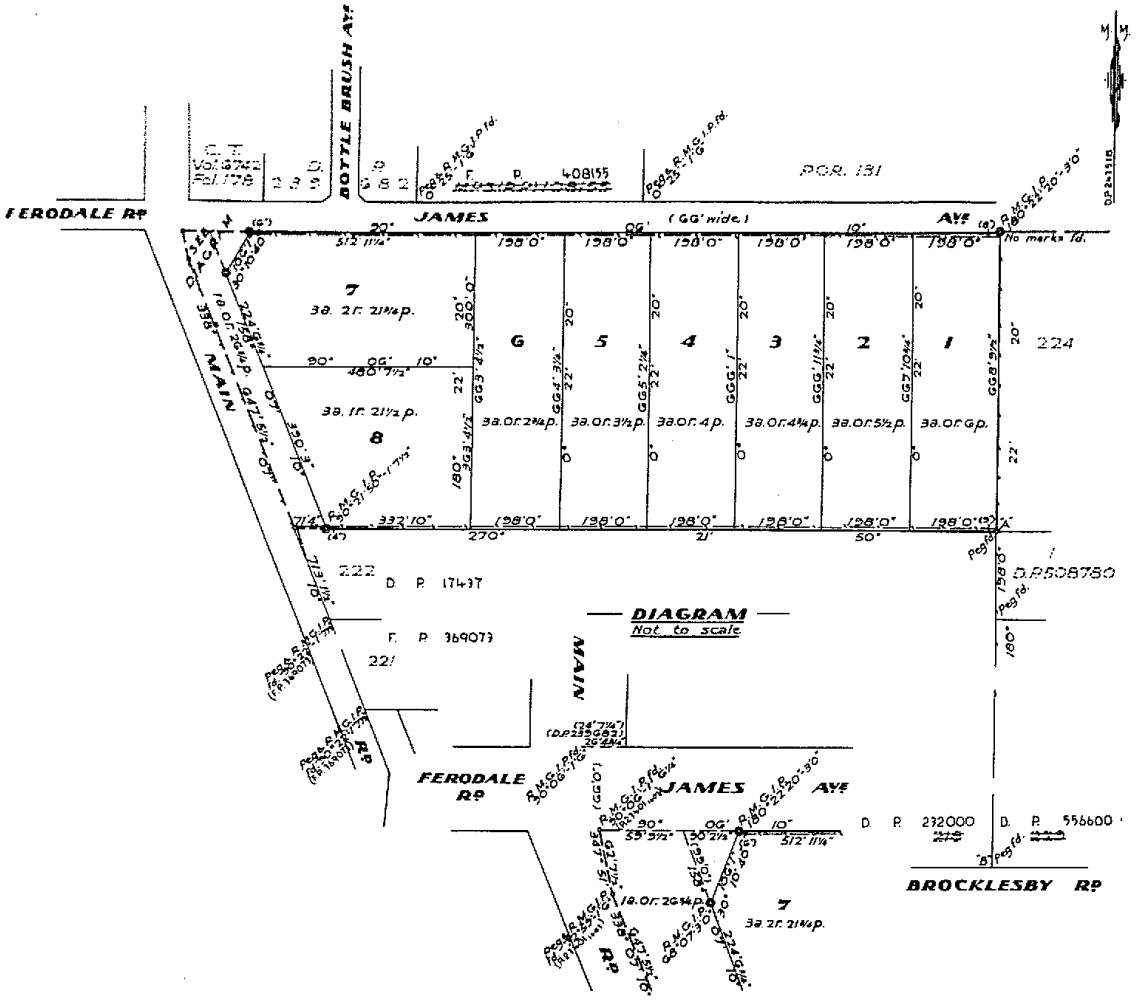
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

Registrar General.

SEE AUTO FOLIO

PLAN SHOWING LOCATION OF LAND



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 3 in Deposited Plan 243518 at Medowie in the Shire of Port Stephens Parish of Stowell and County of Gloucester being part of Portion 146 granted to Richard Windeyer on 30-6-1838.

FIRST SCHEDULE

~~GEORGE MALCOLM HENDERSON of Mayfield, Fitter.~~

SECOND SCHEDULE

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

Registrar General

Vol. 11956 Fol. 241

T818393DM

V704142

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar General
~~Alan Roy Boyd of Williamtown, A member of Royal Australian Air Force and Susan Ann Boyd of Medowie Spinster as joint tenants~~	Transfer	N701531	17.6.1973	23.2.1973	
Michael James Johnson and Robyn Leonie Johnson as joint tenants by Transfer T818394. Registered 10-11-1983					

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar General	CANCELLATION		
~~Mortgage~~	~~N701532~~	~~09.12.1973~~	~~to Bank of New South Wales~~	23.2.1973		Discharged	T282693 T818393	
T818395	Mortgage to The Police Department Employees Credit Union Limited Registered 10-11-1983					Discharged	V704142	

(Page 2 of 2 pages)

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

11956245

CERTIFICATE OF TITLE

NEW SOUTH WALES

REAL PROPERTY ACT, 1900

Appln.No.18105

Prior Title Vol.5959 Fol.22

Vol. 11956 Fol. 245

Edition issued 26-10-1972.

Page 11 Vol. 11956 Fol. 245

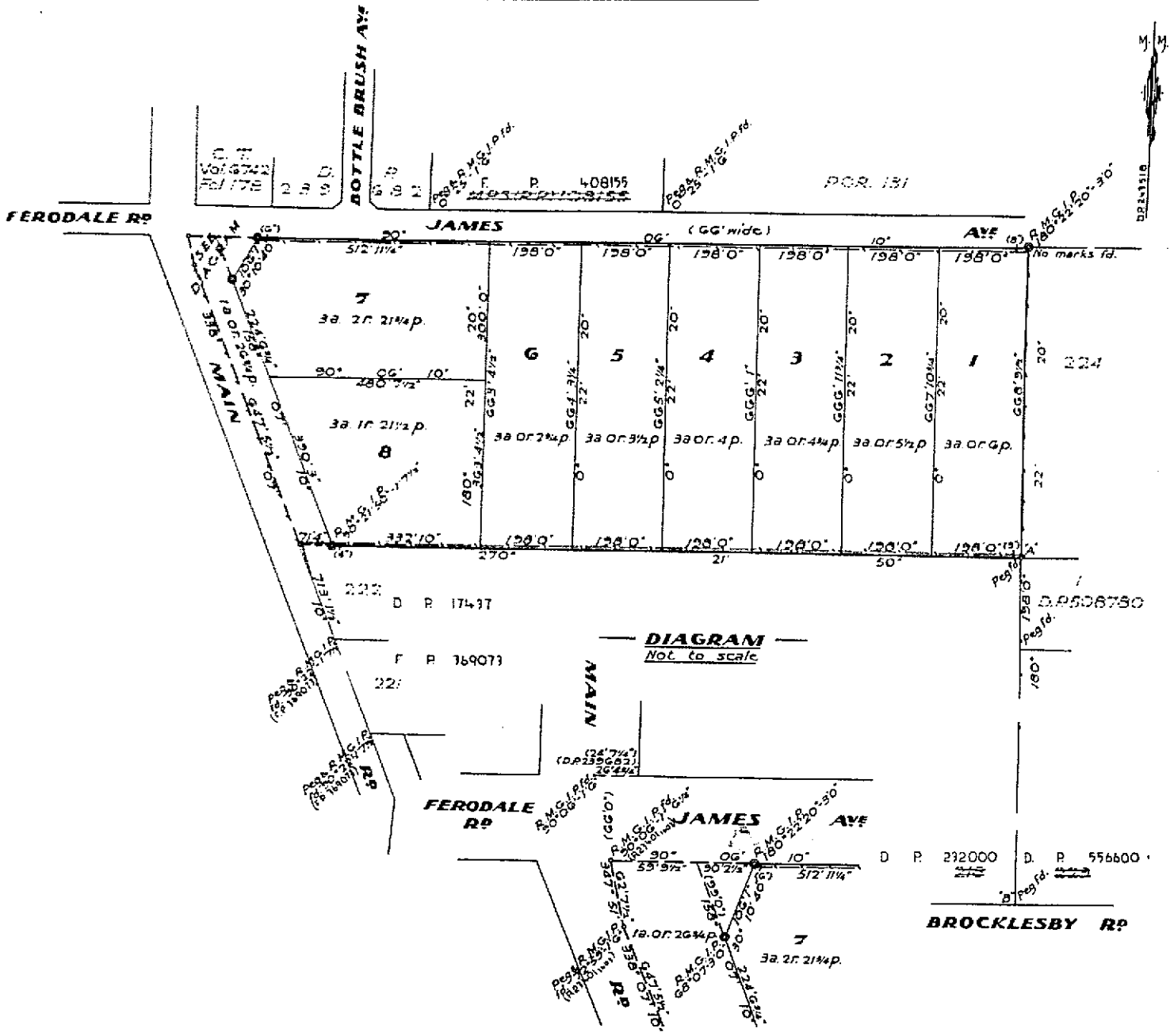
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

Registrar General.

SEE AUTO FOLIO

PLAN SHOWING LOCATION OF LAND



S

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 7 in Deposited Plan 243518 at Medowie in the Shire of Port Stephens Parish of Stowell and County of Gloucester being part of Portion 146 granted to Richard Windeyer on 30-6-1838.

FIRST SCHEDULE

~~GEORGE MALCOLM HENDERSON of Mayfield, Fitter.~~

SECOND SCHEDULE

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

Registrar General

S958597K

Vol. 11956 Fol. 245

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar General
Phillip John Downey of Medowie, Assistant Foreman and Margaret Downey his wife as joint tenants	Transfer	S95859	-------	14-10-1980	

SECOND SCHEDULE (continued)

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

(Page 2 of 2 pages)

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

Form: 01T
Licence: 05-11-638
Licensee: Softdocs
Farrar Legal Pty Ltd

1/2

TRANSFER

New South Wales
Real Property Act 1900

AN31110R

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises by this form for the establishment and maintenance of the Real Property Act Re... made available to any person for search upon payment of a fee, if any.

STAMP DUTY	Revenue NSW use only Office of State Revenue (NSW) Client No: 125977181 3908 Duty: $10— Trans No: 9239895-001 Asst details:
(A) **TORRENS TITLE**	3/243518
(B) **LODGED BY**	Document Collection Box 39U Name, Address or DX, Telephone, and Customer Account Number if any: LLPN: 123840P NAB C/- SAI GLOBAL Property DX 885 SYDNEY 02 9210 0700 Reference (optional): B3169335 - 2 NORTH **CODES** T TW
(C) **TRANSFEROR**	LEIGH RAYMOND CARMICHAEL and KERRIE MAUREEN CARMICHAEL
(D) **CONSIDERATION**	The transferor acknowledges receipt of the consideration of $ 700,000.00 and as regards the land
(E) **ESTATE**	specified above transfers to the transferee an estate in fee simple.
(F) **SHARE TRANSFERRED**	
(G)	Encumbrances (if applicable):
(H) **TRANSFEREE**	2 NORTH AVENUE PTY LTD (ACN 158 690 987) ~~atf Woodward Family Trust~~ TENANCY: -
	(TREASURY) 109558657 2781 ALTERATION NOTED
DATE	7 / 12 / 2017

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

Signature of witness:

Name of witness: ADRIAN PAUL BUTLER
Address of witness: 23 SCARLET OAK AVE
HARKNESS 3177

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

Signature of transferor:

LR Carmichael

Kerrie Carmichael

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

Signature:

Signatory's name: Allan Dixon Farrar
Capacity: Solicitor for the transferee

(K) The transferee's solicitor certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. 1446737 Full Name: Allan Farrar Dixon Signature:

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

ALL HANDWRITING MUST BE IN BLOCK CAPITALS

Number additional pages sequentially

I, Rachael Ann Marshall, on the person authorised to make this change

97-01T

TRANSFER

Real Property Act, 1900

0 327869 B

(1)

Office of State Revenue use only

OFFICE OF STATE REVENUE
NSW TREASURY
N5
NO STAMP DUTY IS PAYABLE ON THIS INSTRUMENT

(A) LAND TRANSFERRED

Show no more than 20 References to Title.
If appropriate, specify the share transferred.

VOLUME 11956 FOLIO 241 NOW BEING 3/2435518

(B) LODGED BY

L.T.O. Box	Name, Address or DX and Telephone
40L	STATE BANK OF NEW SOUTH WALES LIMITED DX 1334 SYDNEY 841 6196 REFERENCE (max. 15 characters): JOHNSON

(C) TRANSFEROR ROBYN LEONIE JOHNSON as to her undivided one half share as Joint Tenant

(D) acknowledges receipt of the consideration of Pursuant to Orders of the Family Law Act, 1975 made at the Local Court at Raymond Terrace on the 5th June, 1995. and as regards the land specified above transfers to the Transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES** 1. ..... 2. ..... 3. .....

(F) TRANSFEREE

T TS (s713 LGA) TW (Sheriff)	MICHAEL JAMES JOHNSON

(G) TENANCY:

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900. **DATED** 8-6-95

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

.....
Signature of Witness

ANNE KINNEAR
Name of Witness (BLOCK LETTERS)

SOLICITOR, THE JUNCTION
Address of Witness

R Johnson
Signature of Transferor

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

.....
Signature of Witness

.....
Name of Witness (BLOCK LETTERS)

.....
Address of Witness

.....
As solicitor for ~~Signature of~~ Transferee
Lea K Smith

INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE

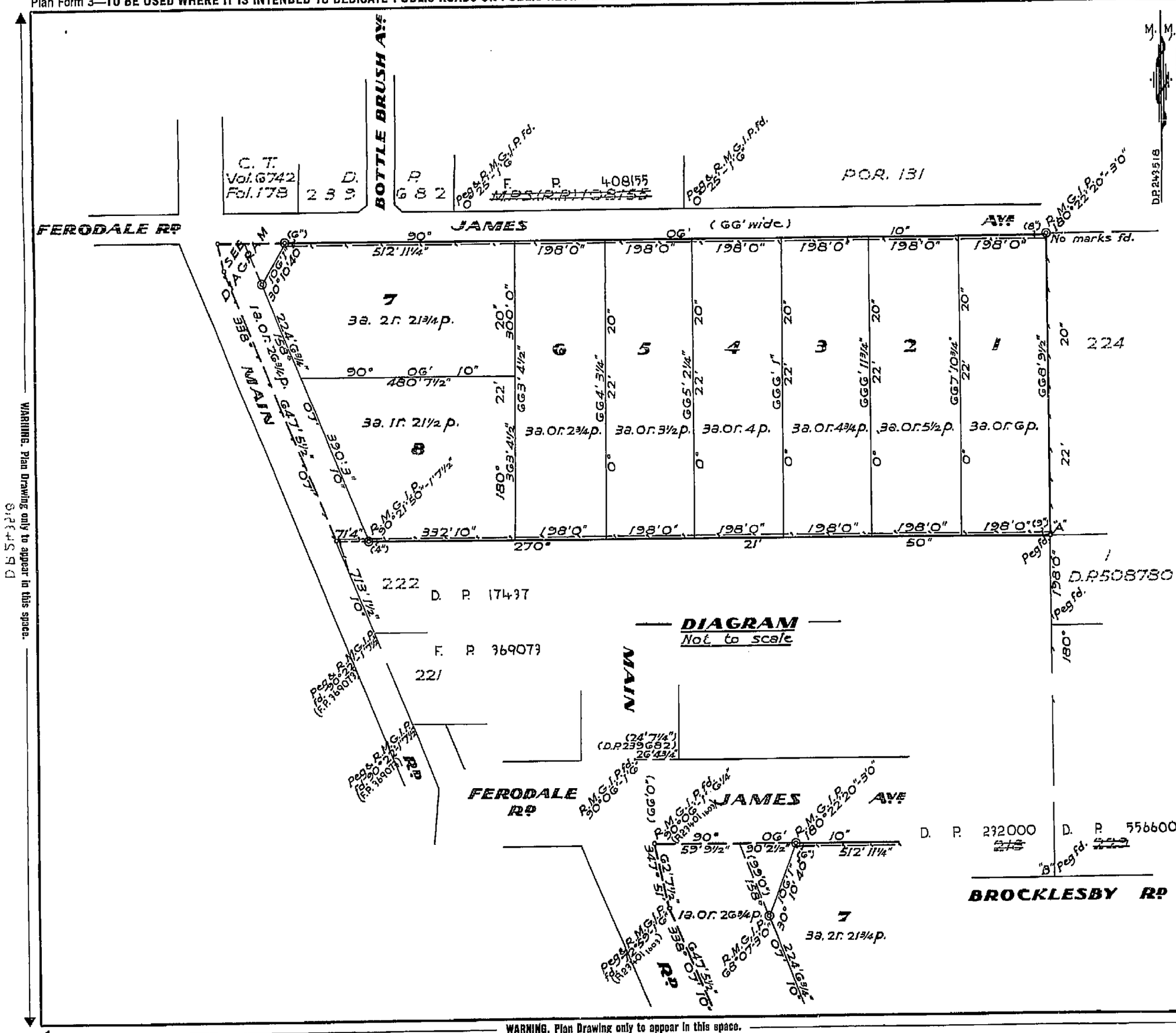
CHECKED BY (office use only) .....

Ausdoc Commercial and Law Stationers 1991

Plan Form 3—TO BE USED WHERE IT IS INTENDED TO DEDICATE PUBLIC ROADS OR PUBLIC RESERVES OR CREATE DRAINAGE RESERVES, EASEMENTS, OR RESTRICTIONS AS TO USER.

DP243518

* OFFICE USE ONLY.



WARNING. Plan Drawing only to appear in this space.

D.P. 243518

Registered: 13-10-1972

C.A. N° 1039/691 OF 17-8-1972

Title System: TORRENS

Purpose: SUBDIVISION

Ref. Map: PARISH

Last Plan: D.P. 17437

PLAN OF
subdivision of part lot 223 D.P. 17437

Scale: 160 feet to an inch

Mun./Shire
~~City~~: Port Stephens

Locality: Medowie

Parish: Stowell

County: Gloucester

~~This is sheet 1 of my plan in sheets~~
Delete if inapplicable.

I, David Ronald Walpole of PALMER BRUYN & WALPOLE 17 BOLTON ST NEWCASTLE a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that the survey represented in this plan is accurate and has been made *~~by me~~ (2) under my immediate supervision in accordance with the Survey Practice Regulations, 1933, and was completed on 1 APRIL 72

Signature

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

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

Panel for use only for statements of intention to dedicate public roads or public reserves or create drainage reserves, easements, or restrictions as to user.

It is intended to dedicate the 1a. 0r. 26¾p. parcel of land to the public as road.

SIGNATURES AND SEALS ONLY.

J. H. Henderson.

Council Clerk's Certificate.

I hereby certify that—

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

*(b) the requirements of section 348 of the ~~Metropolitan Water, Sewerage and Drainage Act, 1924, as amended,~~ †Hunter District Water, Sewerage, and Drainage Act, 1938, as amended,

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

Subdivision No. 1039/691

Date. 17-8-73

(Signature) Council Clerk.

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

†Delete if inapplicable.

CONVERSION TABLE ADDED IN REGISTRAR GENERAL'S DEPARTMENT

DP 243518

FEET	INCHES	METRES
-	6	0.15
-	8	0.205
-	9	0.23
1	6	0.455
1	6 1/4	0.465
1	7 1/2	0.495
3	-	0.915
10	2 1/2	3.11
11	-	3.355
24	7 1/4	7.5
26	4 3/4	8.045
51	9 1/8	15.775
59	9 1/2	18.225
62	7 1/2	19.09
66	-	20.115
71	4	21.74
90	2 1/2	27.495
99	-	30.175
103	-	31.395
106	-	32.31
106	1	32.335
110	-	33.53
198	-	60.35
224	6 3/4	68.45
300	-	91.44
310	3	94.56
332	0 3/8	101.2
332	6 3/4	101.42
332	10	101.45
363	3 5/8	110.73
363	4 1/2	110.76
390	3	118.95
400	7 1/2	122.11
480	7 1/2	146.49
512	1 5/8	156.1
513	11 1/4	156.34
647	5 1/2	197.35
660	6 1/2	201.38
663	3 5/8	202.17
663	4 1/2	202.2
664	3 1/4	202.47
665	1 3/8	202.73
665	2 1/4	202.75
666	-	203
666	1	203.02
666	1 1/4	203.03
666	11 3/4	203.3
667	1 1/4	203.33
667	10 3/4	203.57
668	9 1/2	203.85
713	1 1/2	217.36

AC	RD	P	SQ M
1	-	26 3/4	4723

AC	RD	P	HA
3	-	2 3/4	1.221
3	-	3 1/2	1.223
3	-	4	1.224
3	-	4 3/4	1.226
3	-	5 1/2	1.228
3	-	6	1.229
3	1	21 1/2	1.37
3	2	21 3/4	1.471

NOTICE

WARNING. CREASING OR FOLDING WILL LEAD TO REJECTION.

DB57:18

I, Bruce Richard Davies, Registrar General for New South Wales, certify that this negative is a photograph made as a permanent record of a document in my custody this 19th day of August, 1977

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
11/7/2023 9:21AM

FOLIO: 3/243518

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 11956 FOL 241

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
8/1/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
19/5/1994		AMENDMENT: LOCAL GOVT AREA	
23/6/1995	O327869	TRANSFER	
23/6/1995	O327870	MORTGAGE	EDITION 1
16/7/1999	5989314	DISCHARGE OF MORTGAGE	
16/7/1999	5989315	MORTGAGE	EDITION 2
23/1/2001	7361639	DISCHARGE OF MORTGAGE	
23/1/2001	7361640	TRANSFER	
23/1/2001	7361641	MORTGAGE	EDITION 3
28/11/2002	9167298	DISCHARGE OF MORTGAGE	
28/11/2002	9167299	MORTGAGE	EDITION 4
16/11/2017	AM894928	DISCHARGE OF MORTGAGE	EDITION 5
9/1/2018	AN31110	TRANSFER	
9/1/2018	AN31111	MORTGAGE	EDITION 6 CORD ISSUED

*** END OF SEARCH ***

advlegs PRINTED ON 11/7/2023

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
18/11/2019 11:07AM

FOLIO: 7/243518

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 11956 FOL 245

Recorded	Number	Type of Instrument	C.T. Issue
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
8/1/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
19/9/1991	Z929157	CHANGE OF NAME	
19/9/1991	Z929158	MORTGAGE	EDITION 1
19/5/1994		AMENDMENT: LOCAL GOVT AREA	
12/7/2012	AH108316	DISCHARGE OF MORTGAGE	EDITION 2
12/9/2017	AM718347	NOTICE OF DEATH	EDITION 3
2/8/2019	AP438529	TRANSFER	
2/8/2019	AP438530	MORTGAGE	EDITION 4 CORD ISSUED

*** END OF SEARCH ***

advlegs PRINTED ON 18/11/2019

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 3/243518

SEARCH DATE	TIME	EDITION NO	DATE
11/7/2023	9:21 AM	6	9/1/2018

LAND

LOT 3 IN DEPOSITED PLAN 243518
AT MEDOWIE
LOCAL GOVERNMENT AREA PORT STEPHENS
PARISH OF STOWELL COUNTY OF GLOUCESTER
TITLE DIAGRAM DP243518

FIRST SCHEDULE

2 NORTH AVENUE PTY LTD (T AN31110)

SECOND SCHEDULE (2 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 AN31111 MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

advlegs PRINTED ON 11/7/2023