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ABN 64 002 841 063

DETAILED SITE INVESTIGATION

PROPOSED RESIDENTIAL SUBDIVISION
Lot 1 DP153167, Lot 6 DP1031236 and Lot 200 DP1288388 – REDMOND PLACE, ORANGE

REPORT NO 20674/1-AA 24 JUNE 2025

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Job No: 20674/1
Our Ref: 20674/1-AA
24 June 2025

Landcom
Level 14, 60 Station Street
PARRAMATTA NSW 2150
Email: swang@landcom.nsw.gov.au

Attention: Ms Stephanie Wang

Dear Stephanie

re: **Proposed Residential Subdivision**
Lot 1 DP153167, Lot 6 DP1031236 and Lot 200 DP1288388
Redmond Place, Orange
Detailed Site Investigation

Please find herewith our *Detailed Site Investigation* report for the above site.

A brief of the outcome of the assessment is presented in the Executive Summary.

If you have any questions, please do not hesitate to contact the undersigned.

Yours faithfully
GEOTECHNIQUE PTY LTD

LAN YE
Senior Environmental Engineer
B.E (Civil), MEng (Civil & Enviro)

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EXECUTIVE SUMMARY

A detailed site investigation (DSI) was carried out for a parcel of land currently registered as Lot 1 DP153167, Lot 6 DP1031236 and Lot 200 DP1288388, located at 6154 Lone Pine Avenue, 3 Redmond Place and 5255 Mitchell Highway, Orange NSW, in the local government area of Orange City Council.

It is understood that the proposed development will involve new subdivision including low to medium density residential lots, low rise apartments, local parks, stormwater basins, wetland, and sewer pump station.

The objectives of the assessment were to ascertain whether the site potentially presents a risk of harm to human health and the environment, and to determine the suitability of the site for the proposed RFS project development, in consideration of State Environmental Planning Policy (Resilience and Hazards, 2021- Chapter 4 Remediation of Land) under the Environmental Planning and Assessment Act 1979.

To achieve the objectives of this assessment, the scope of work included site reconnaissance, review of site history information and geological maps, test pit excavation and borehole drilling, soil sampling and testing, and preparation of this report.

The Data Quality Objectives outlined in the report have been satisfied. The findings of this DSI are summarised as follows:

- The site consists of rural open grass land that is utilised for livestock grazing in the northern / northwestern portion of the site. A stockpile was noted in the northwestern portion of the site.
- Based on the site history and site inspection, several areas of concern and potential contaminants were identified within the site as summarised in the table presented in **Section 7.0**.
- The general soil profile encountered during the soil investigation was a layer of topsoil / filling (to the depths of up to 0.2 mBGL), overlying natural silty clay.
- No contaminants of concern (primary metals, BTEX compounds, PAHs, OCPs, OPPs, PCBs, Phenols and PFAS) were reported at concentrations above adopted health-based criteria with exception of Lead in sample TP151 (0.0-0.3) as indicated on Drawing No. 20674/1-AA2.
- Bonded ACM (>7mm) in soil sample TP157 (0.0-0.15) exceeded the HSL A. Five fibro-cement piece samples tested positive as ACM - FCP150 (surface sample), FCP151 (0.0-0.3), FCP152 (0.0-0.3), FCP152 (0.5-0.8) and FCP157 (0.0-0.15).
- Exceedances of the EIL were present for copper and zinc in sample TP151 (0.0-0.3) and zinc in sample TP151 (0.5-0.8).
- Data gaps were identified in the current conceptual site model.

Based on the findings obtained from this DSI, and with consideration of Geotechnique's *Statement of Limitations* (**Section 19.0**), Geotechnique concludes that the site can be made suitable for proposed land use being residential development, provided the recommendations detailed in **Section 18.0** are implemented.

Geotechnique note that the site contamination issues can be managed through the development application process in accordance with the *State Environmental Planning Policy 55 (SEPP 55) – Remediation of Land*, with the requirements for remediation and validation incorporated into conditions of development consent.

Geotechnique provides the following recommendations:

- Preparation and implementation of a Remedial Action Plan (RAP), which should:
  - Detail investigations to close the data gaps identified during this investigation.
  - Outline the remediation requirements for contamination identified during this DSI and other contamination that may be identified during data gap closure investigations.
  - Provide the requirements and procedure for waste classification assessment, in order to enable classification of site soils/stockpile to be excavated and disposed off-site, in accordance with the EPA (2014) *Waste Classification Guidelines.*
  - Provide an unexpected finds protocol for implementation during site excavation to ensure any potential contamination sources (e.g. soil staining, asbestos) that maybe identified are managed in accordance with the NSW EPA legislation and guidelines.
  - Provide a SAQP for the validation of remediation activities performed on-site.
- Undertake supplementary investigations, and subsequent remediation and validation works for the site, as outlined in the RAP.
- Preparation of a final site validation report by a suitably qualified environmental consultant, certifying site suitability of soils for the proposed land use.

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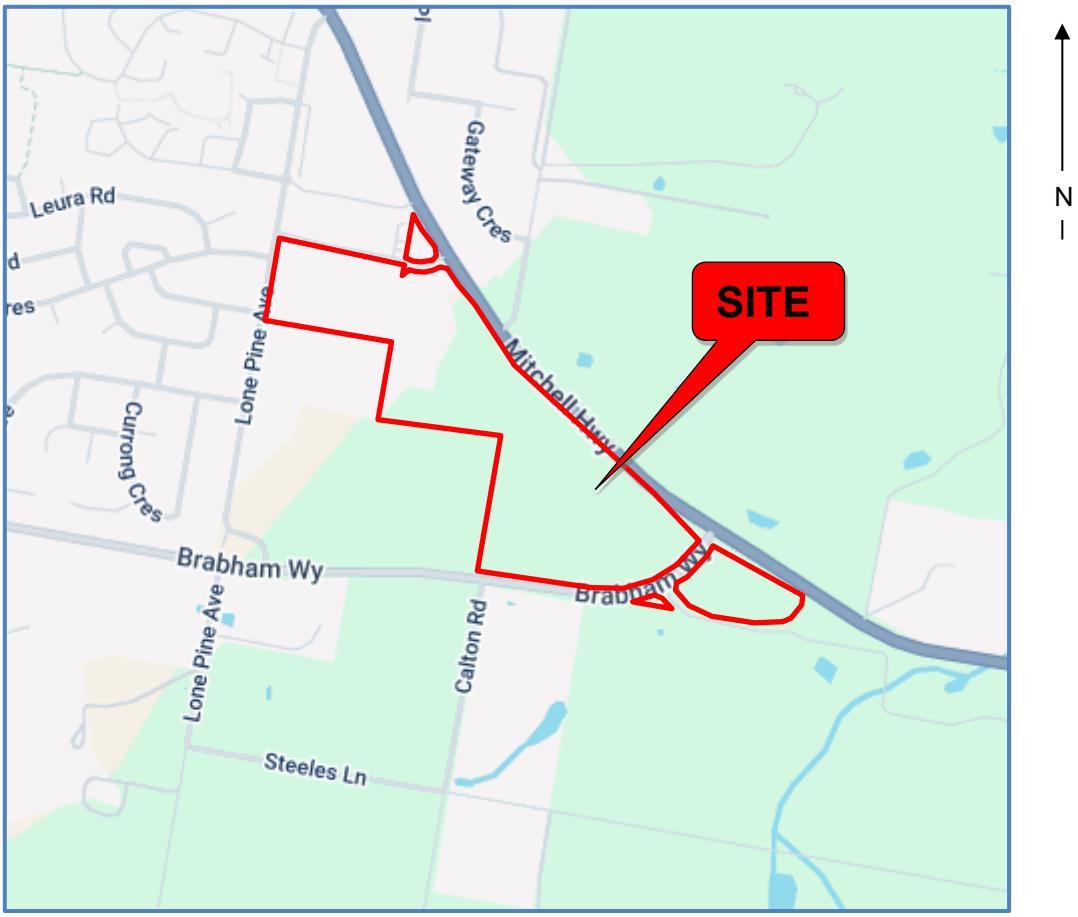
1.0 INTRODUCTION

This report presents the results of a detailed site investigation (DSI) for a parcel of land currently registered as Lot 1 DP153167, Lot 6 DP1031236 and Lot 200 DP1288388, located at 154 Lone Pine Avenue, 3 Redmond Place and 5255 Mitchell Highway, Orange NSW (hereby referred to as the site), in the local government area of Orange City Council, as indicated on **Figure 1** below.

FIGURE 1



Map Data ©2025 Google

Based on the Master Plan provided by the client, it is understood that the proposed development will involve new subdivision including low to medium density residential lots, low rise apartments with ground parking, local parks, stormwater basins, wetland and sewer pump station (**Appendix A**). The current hangar building and existing picnic shelter, toilet block and The Old Dairy Building (heritage) will remain on site.

The objectives of the assessment were to ascertain whether the site potentially presents a risk of harm to human health and the environment, and to determine the suitability of the site for the proposed residential subdivision project, in consideration of State Environmental Planning Policy (Resilience and Hazards, 2021- Chapter 4 Remediation of Land) under the Environmental Planning and Assessment Act 1979.

The DSI has been carried out in consideration of the following regulatory framework and guideline documents:

- *Contaminated Land Management Act 1997, NSW.*
- *Protection of the Environment Operations Act 1997* (the POEO Act 1997).
- *Environmental Planning and Assessment Act 1979* (the EP&A Act 1979).
- *Orange Local Environmental Plan 2011 (2012 EPI 55).*
- *Chapter 4 Remediation of Land of State Environmental Planning Policy (Resilience and Hazards)* 2021 under the Environmental Planning and Assessment Act 1979, which has repealed "Managing Land Contamination: Planning Guidelines, State Environmental Planning Policy No. 55 – Remediation of Land".
- *National Environmental Protection (Assessment of Site Contamination) Measures, 1999 (April 2013),* National Environmental Protection Council.
- NSW EPA 2020, Consultants Reporting on Contaminated Land: Contaminated land Guidelines, New South Wales Environment Protection Authority (EPA), Sydney.
- NSW EPA (2022) *Sampling Design Guidelines Part 1 – Application.*
- *Contaminated land Management: Guidelines for the NSW Site Auditor Scheme (3rd* Edition), New South Wales.

This report was prepared generally in accordance with the NSW EPA, "Consultants Reporting on Contaminated Land" – 2020.

2.0 SCOPE OF WORK

To achieve the objectives of the assessment, the following scope of work was carried out:

- Review of previous contamination investigations.
- Scanning of sample locations by a services locator.
- An inspection of accessible open area by an Environmental Scientist to determine current site conditions and identification of any environmental concerns based on visual and olfactory indicators of potential contamination.
- In accordance with the NSW EPA (2022) Contaminated Land Guidelines - *Sampling Design part 1 – Application,* for a site of about 24.23 hectares, 271 sampling points are required. However, to gain an "indication" of potential site contamination, limited samples were recovered from sixty-nine (69) locations.
- Re-instatement of the test pits after sampling.
- Forwarding the soil and quality assurance (QA) / Quality Control (QC) samples to National Association of Testing Authorities (NATA) accredited laboratories for testing of potential contaminants of concern (PCOC).
- Assessment of the laboratory analytical results.
- Assessment of the field and laboratory QA/QC.
- Assessment of the contamination status of soil at the sampling locations.

3.0 SITE DESCRIPTION

The site identification details, and associated information are presented in table below. The site locality and assessment area are illustrated in Drawing No 20674/1-AA1.

Attribute	Description
Street Address	Redmond Place, Orange
Location Description	200 km northwest of Sydney CBD
Site Coordinates	Northern-western corner of site Lot 1 DP153167 (GDA2020-MGA55): ▪ Easting: 697215.731 ▪ Northing: 6313197.824 (Source: portal.spatial.nsw.gov.au/explorer)
Site Area	24.23 hectares
Lots and DP	Lot 1 DP153167, Lot 6 DP1031236 and Lot 200 DP1288388
State Survey Marks	Six State Survey Mark and One Permanent Marks are situated within close proximity to the site: ▪ SS12485: on the corner of Lone Pine Avenue and Leumeah Road (17m west). ▪ SS16205: on the corner of Lone Pine Avenue and Adina Cresent (15m west). ▪ SS29626 D: on Mitchell Highway (1m north). ▪ SS138478: on the corner of Perc Griffith Way and Mitchell Highway (48m northeast). ▪ SS29625 D: in the southeastern portion of the site. ▪ SS100154: in the southeastern portion of the site. ▪ PM117584 D: in the southeastern portion of the site. (Source: portal.spatial.nsw.gov.au/explorer)
LGA	Orange City Council
Parish	Orange
County	Bathurst
Current Zoning	R1 General Residential, RE1 Public Recreation and SP2 Infrastructure Sewerage System (Orange Local Environmental Plan 2011)

4.0 PREVIOUS SITE INVESTIGATION

Previous investigations completed at the site were documented under the following reports:

- Preliminary Contamination Report, Redmond Place, Orange NSW (Envirowest Consulting, Report Number R15854c, Dated 18 August 2023).
- Preliminary Site Investigation, Redmond Place, Orange NSW (GHD, Project Number 12627900, Dated 14 May 2024).

A summary of the key findings of this report is provided in the table below:

Preliminary Contamination Report (Envirowest Consulting, 2023)	
Objectives	The objective of the investigation was to provide a preliminary contamination assessment of the site to determine suitability for the proposed land-use.
Scope of Works	The scope was to identify past potentially contaminating activities, identify potential contamination types, discuss the site condition, provide an assessment of site contamination and assess the need for further investigation or suitability for residential land-use. The scope of works included visual inspection and desktop review.
Recommendations	A detailed investigation of the site is required to characterise areas of potential contamination and suitability for residential land-use. A sampling analysis and quality plan should be prepared for the detailed contamination investigation.
Preliminary Site Investigation (GHD, 2024)	
Objectives	The overarching objective of this preliminary site investigation (PSI) is to identify potential contamination issues that may be present based on the current and historical use of the site.
Scope of Works	▪ Preparation of site-specific health, safety and environment documentation for the site walkover and intrusive investigation works including a Job Safety and Environment Assessment (JSEA). ▪ A review of publicly available information (i.e., historical aerial imagery and registered groundwater bores). ▪ A desktop assessment of historical reports and anecdotal evidence relevant to the site, collect information about the site's past and current environmental conditions. A field-based site walkover of the site to assess potential sources of contamination, surrounding land use, topography, drainage, nearby sensitive environments and to determine potential areas of environmental concern (AEC) and contaminants of potential concern (COPC). ▪ Furthermore, identify potential access constraints to the proposed investigation locations, and ground truthing the previous site investigation (Envirowest Consulting, 2023) that identified potential sources of contamination. ▪ Collection of soil samples during excavation of twenty-eight test pits. ▪ Laboratory analysis of soil samples. ▪ Comparison and analysis of the analytical results to ecological and human health screening criteria.

Preliminary Contamination Report (Envirowest Consulting, 2023)	
Findings	▪ Nickel concentration that exceeded the ecological assessment criterion was localised to one location within Lot 6 (adjacent to the concrete AST bund and hangar building). ▪ Total recoverable hydrocarbons (TRHs) within two locations (TP03 and TP08) were below the adopted human-health and ecological assessment criteria within Lot 1. ▪ TRHs, OCP and PFOS below the adopted human-health and ecological assessment criteria. ▪ Various metals (arsenic, chromium (III+VI), copper, lead, nickel, and zinc) were reported within an order of magnitude below the adopted assessment criteria in the majority of soil samples. ▪ A cement pipe fragment in Lot 1 visually assessed as asbestos containing material. ▪ Asbestos was not identified in soils sampled and analysed for the presence of asbestos.
Conclusion and Recommendation	The overall potential for contamination impacts in soil to represent a material constraint to redevelopment for low density residential use is low. An identified constraint in relation to the proposed rezoning of the site from rural to residential is the potential for exposure to asbestos contamination during future construction and development works. It is recommended that asbestos should be managed with further investigation (quantitative analysis) of soils containing potential asbestos containing fragments based on information detailed within this report, that includes removal of waste stockpiles and associated material, hand picking of surface material followed by validation and clearance from a licenced asbestos assessor. Appropriate occupational health and safety (OH&S) protocols during construction should also be adopted, including management of any unexpected finds. Further, the area around the helipad, and associated hangar building, was assessed for PFAS in soil at investigation locations TP11, TP12, and PFAS_S1. Measured PFAS concentrations were below adopted assessment criteria for low density residential and ecological (direct/indirect) exposure. This should not preclude the hangar area from being rezoned to R1 ‘General Residential’ and/or RE1 ‘Public Recreation’ given there was no evidence to suggest that PFAS within this area is present at concentrations of concern for the protection of human and ecological health; however, investigation within the hangar itself was not part of the scope of work. Should there be any future changes to the existing infrastructure (i.e., hangar building, helipad, and hardstand area) within Lot 6, further site investigation is warranted.

5.0 SITE CONDITION AND SURROUNDING ENVIRONMENT

5.1 Site Condition

An Environmental Scientist from Geotechnique carried out a site inspection for this DSI on 15, 16 & 17 April 2025.

The site consists of rural open grass land that is utilised for livestock grazing in the northern / northwestern portion of the site. The following key features can be made about the site:

- A stockpile was noted in the northwestern portion of the site.
- Two large boulders are located in the northwestern portion of the site.
- A concrete and galvanized iron (GI) hangar (currently used as a storage facility for the local club) and cargo shipping container are located in the northwestern portion of the site.
- A heritage brick building (The Old Dairy building) is located in the northern portion of the site.
- A GI public toilet block and rest shed is located in the northwestern portion if the site.
- Two wetlands are located in the central northern and southeastern portion of the site.

Site Features are indicated on Drawing No 20674/1-AA1.

There was no petroleum hydrocarbon staining on the ground surface of the site that would indicate the potential for contamination. There were no signs of plant distress indicating the potential of contamination. There were no olfactory indicators of potential contamination. There were no obvious features associated with underground storage tanks (bowsers, breather pipe, inlet valve and piping).

5.2 Surrounding Environment

At the time of undertaking the inspection, observations of the neighbouring properties were as follows:

To the north:	Rural Residential and Commercial
To the east:	Rural Residential and Mitchell Highway
To the south	Rural Residential and Dairy Creek Road
To the west:	Low density residential properties and Lone Pine Avenue

6.0 TOPOGRAPHY, GEOLOGY & HYDROGEOLOGY

Topography

The site slopes from the northwest to the southeast.

Soil Landscape

Soil and Landscape of Central and Eastern NSW eSPADE v2.2 (Online Dataset, 2025), prepared by the NSW Department of Planning, Industry and Environment indicates that the site is located within the North Orange Landscape area, typically consisting of undulating to rolling low hills on upper slopes with brown and yellow solodic soils in drainage depressions and non-calcic brown and red / brown podzolic soils in other areas.

Regional Geology

The Geological Map of Orange (Geological Series Sheet 9030-1, Scale 1:50,000, Edition 1, 1967), published by the Geological Survey of New South Wales indicates the alluvial soils within the site to be Cainozoic units from the Tertiary period, comprising of pyroxene olivine basalt, plagioclase basalt, alkali basalt, trachybasalt and trachyandesite.

Acid Sulfate Soil (ASS) Risk

With reference to eSPADE v2.2 (Online Dataset, 2025), prepared by the NSW Department of Planning, Industry and Environment indicates the subject land lies within the map class description of No Known Occurrence, for which acid sulfate soils are not known or expected to occur in these environments.

Nearest Surface Water Feature

There are no named water courses located within the site. There are two wetlands connected by a creek located in the southeastern portion of the site. The closest water course is Dairy Creek, which is approximately 200m to the east of the site.

Groundwater Bore Records

A site-specific groundwater analysis was outside the scope of this assessment. However, a search was carried out on 20 May 2025 through the website of Department of Primary Industries Office of Water for any registered groundwater bore data within a radius of 500m of the site. The search revealed four bores to be located near the site. The groundwater map is included in **Appendix B** and summarised below.

Bore	Date	Authorised/ Intended Purpose	AMG coordinates	Water Bearing Zone (m)	Standing Water Level (m)	Salinity (mg/L)
GW05377	01.12.1981	Domestic / Stock	$_{6}98.025_{E}$ & $_{63}12.715_{N}$	7.90-8.20 13.10-13.40 15.50-15.80	7.30 7.30 7.30	No Details
GW042830	01.12.1976	Domestic / Stock	$_{6}97.411_{E}$ & $_{63}13.036_{N}$	12.20-16.80 22.20-25.90 29.50-32.90	1.50 1.50 1.50	No Details
GW038003	No Details	Domestic	$_{6}97.402_{E}$ & $_{63}12.605_{N}$	No Details	No Details	Good
GW038004	01.01.1975	Domestic / Stock	$_{6}97.592_{E}$ & $_{63}12.592_{N}$	15.20-21.20	3.90	Good

7.0 CONCENTUAL SITE MODEL

7.1 Areas of Environmental Concern (AEC) / Potential AEC (PAEC)

Based on the information provided and the site inspection, the AEC / PAEC and associated potential contaminants (CoPC) have been identified and are presented in the following Table 7.1.

Table 7.1 AEC / PAEC and Associated COPC

Potential AEC	Rational / Details	Potential Contaminants
Stockpile	In the soil stockpile in the northwestern portion of the site, there is potential for metals, OCP, OPP, fungicides and asbestos due to inclusion of building debris and possible pest control.	Metals Asbestos Total Recoverable Hydrocarbons (TRH) Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) Polycyclic Aromatic Hydrocarbons (PAH) Organochlorine Pesticides (OCP) Organophosphorus Pesticides (OPP)
GI Features	In the surface soils surrounding the GI features there is potential for metals contamination due to degradation of building materials, such as GI sheets, paint (if painted with lead-based paint).	Metals
Fill Materials	There is potential for fill materials contamination due to their unknown source and origin.	Metals TRH BTEX PAH Asbestos
Hangar	Zinc and lead contamination could be present from tyre rubber wear. In addition, there is potential for petroleum hydrocarbon contamination if there is any fuel leak/oil-stained area observed.	Zinc Lead TRH BTEX PAH
Wetland	There is potential for contaminants to accumulate in dam water and sediment resulting from surface water run-off over the site and the adjoining property.	Metals OCP OPP

Metals suite includes Arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), mercury (Hg), nickel (Ni) and zinc (Zn)

7.2 Potentially Contaminated Media

The site historical review and site inspection identified current site activities, as well as the sources of AEC / PAEC, which might have impacted the historical soils.

Potentially contaminated media present at the site is considered to be surface soils and fill materials.

Based on the potential mobility of contaminants and associated potential leachability through the soil profile, vertical migration of contaminants from the surface soils into the underlying natural soils might have occurred. As a result, the natural soils and underlying shale bedrock are also considered to be potentially contaminated media.

Surface water is identified as a potentially contaminated medium, as part of surface run-off may eventuate in the dam.

7.3 Potential for Migration

Contaminants generally migrate from site via a combination of windblown dust, rainwater infiltration, groundwater migration and surface water run-off. The potential for contaminants to migrate is a combination of:

- The nature of the contaminants (solid / liquid and mobility characteristics).
- The extent of the contaminants (isolated or widespread).
- The locations of the contaminants (surface soils or at depth).
- The site topography, geology, hydrology and hydrogeology.

Off-site impacts of contaminants in soil are generally governed by the transport media available and likely receptors. The most common transport medium is water, whilst receptors include initially uncontaminated soils, groundwater, surface waterbodies, humans, flora and fauna.

The ground surface within the site was in general covered with buildings, hard stands, trees and grass. The potential for migration of contaminants via wind-blown dust is considered low as a result of the exposed soils within the site. The potential for migration of contamination via surface run-off is also expected to be minor. Some migration of contaminants via surface water might still occur in the event of heavy rain. Surface run-off would generally follow the topography, and part of surface run-off may eventuate in the dam.

Groundwater was not encountered in any test pit or borehole. Given that the naturally occurring soils beneath the site are relatively impermeable based on the regional geology information and test pit excavation for this assessment, the potential for recent and ongoing migration of contaminants from the site to the groundwater table below is considered low. Furthermore, the relatively impermeable clay layer would have minimised the potential for contaminants in the past to migrate to deeper soils or the groundwater regime. It is considered unlikely that the groundwater regime beneath the site has been impacted by contaminants in the soils. However, if high levels and widespread contaminants are detected through this assessment, a groundwater assessment may need to be considered.

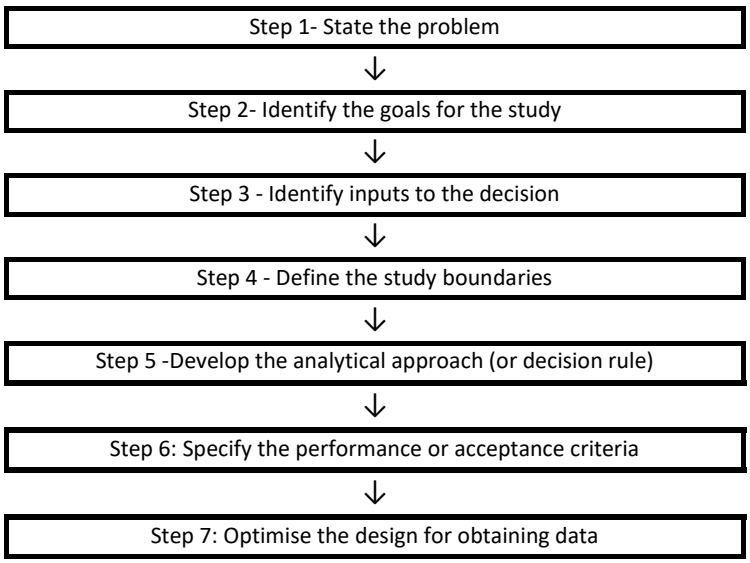
Sensitive receptors at the site and in the immediate vicinity, under current site conditions and based on the future land use of the site, are considered to include visitors and those living and working at the site who might come into contact with potentially contaminated media. The sensitive environmental receptors that could be adversely impacted by possible contamination are considered to be surface water and groundwater.

Geotechnique consider that the outlined potential contaminations can be managed with discussed strategies.

8.0 DATA QUALITY OBJECTIVES

Data quality objectives (DQO) are qualitative and quantitative statements that specify the quality of the data required for the contamination assessment. DQO must ensure that the data obtained is sufficient to characterise the contamination on a site and enable appropriate assessment of health and environmental risks for the current or proposed use. The DQO were developed for this contamination assessment in accordance with the NSW EPA, Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme (3rd edition) and the NEPM 1999 (2013) Assessment of Site Contamination.

The project specific DQO process adopted consists of the following steps and is outlined as follows:



State the Problem

The site comprised of rural land with a hangar developed between 1998 and 2015, and residential building developed before 1972. The site's historical information and site inspection identified AEC / PAEC including a stockpile with hazardous building material and presence of FCP and fill materials.

It is understood that the proposed development will involve new subdivision including low to medium density residential lots, low rise apartments, local parks, stormwater basins, wetland and sewer pump station (**Appendix A**). The current hangar building and existing picnic shelter and toilet block will remain on site.

The 'problem' as it stands is that previous and existing land uses may have given rise to potential soil contamination, which could impact on the proposed development.

An investigation is to be undertaken in order to provide data on the status of the soil on site. The analytical data should then enable recommendations to be made with regard to any future remedial works.

The 'problem' to be addressed is whether the site can be declared environmentally suitable for the proposed development, following completion of the remedial works, if required.

The following key professional personnel will be involved in the contamination assessment:

Lan Ye	Senior Environmental Engineer
Kienan Brown	Environmental Scientist

Identify the Goals for the Study
The goals for the assessment are as follows:

- Does the site or is the site, likely to present a risk of harm to human health or the environment*?*
- Is the site currently suitable for the proposed land use?
- Are there any off-site migration issues to be considered?
- Is further investigation required to adequately address the abovementioned decisions?
- Is further investigation required to delineate the extent of contamination identified?
- Does the site require remediation to ensure suitability for the proposed land use?

Identify Inputs to the Decisions
The inputs into the decision process are as follows:

- Site setting and Site history information (presented in **Section 4.0**).
- Site conditions and observation details (presented in **Section 5.0**).
- In accordance with the NSW EPA (2022) Contaminated Land Guidelines - *Sampling Design part 1 – Application,* for about 24.23 hectares site, 271 sampling points are required. However, to gain an "indication" of potential site contamination limited samples will be recovered from sixty-nine (69) locations.
- Soil profile information obtained through the sampling phase.
- Develop a conceptual site model (presented in **Section 7.0**).
- Laboratory test data on analysed samples.
- Assessment of test results against applicable soil Investigation levels and screening levels in the National Environment Protection (Assessment of Site Contamination) Measure (NEPM) 1999 (April 2013).

Define the Study Boundaries
The study boundary for this assessment is defined by boundaries of the site, as shown on Drawing No 20674/1-AA1 and summarised in **Section 3.0**.

The site comprises 3 lots and covers an area of approximately 24.23 hectares.

The vertical boundary of the study is approximately 0.5m into the natural soil across the site.

The temporal boundaries are expected to comprise the time frame for field investigation to be completed, access restrictions and availability of key personnel.

In order to make sure the completion of the field investigation, the field work schedule was planned well in advance; site access was organised, and only qualified and trained field engineers were assigned to this project.

Develop a Decision Rule
The information obtained through this assessment will be used to characterise the subject site in terms of contamination issues and risk to human health and the environment. The decision rules in characterising the site will be as follows:

- The assessment criteria are the NSW EPA produced and / or endorsed criteria, as specified in **Section 13.0**.

- The subject site will be deemed contaminated if any of the above criteria are unfulfilled.
- Further investigation, remediation and / or management will be recommended if the site is found to be contaminated.

Laboratory test results will only be accepted and considered useable for this assessment under the following conditions:

- All laboratories used are accredited by NATA for the analyses undertaken.
- All detection limits set by the laboratories fall below the assessment criteria adopted.
- Analyte concentrations in the rinsate water samples should be less than laboratory limits of reporting or should not be detected significantly (refer to **Section 10.3**).
- The recovery of spike concentrations in the trip spike samples is sufficient so as not to affect the reported concentrations of the soil samples when the same recovery is applied (BTEX only) (refer to **Section 10.4**).
- The differences between the reported concentrations of the analytes in the field duplicate and the corresponding original samples are within accepted limits (refer to **Section 10.5**).
- The differences between the reported concentrations of the analytes in the inter-laboratory duplicate (split) and the corresponding original samples are within accepted limits (refer to **Section 10.6**).
- The QA and QC protocols and results reported by the laboratories comply with the requirements of the NEPM 1999 (April 2013) "*Guideline on Laboratory Analysis of Potentially Contaminated Soils*".

Specify Performance or Acceptance Criteria
The performance or acceptance criteria for this assessment are as follows:

- Selection of sampling patterns complies with those recommended in the NSW EPA sampling design guidelines, which have risk probabilities already incorporated. Sample numbers and sampling plans are therefore considered to be adequate for site characterisation.
- The analyte selection is based on the soil profiles, site observation and site history provided from the previous site investigations. The possibility of any other potential contaminants that would be detected through field observation (odours, staining, and colouring) during sampling may need to be included. The potential for contaminants other than those analysed is considered remote.
- The assessment criteria adopted from the guidelines stated in **Section 13.0** have risk probabilities already incorporated.
- The acceptable limits for field and inter-laboratory duplicate comparisons are outlined in **Sections 10.5** and **10.6**.
- The acceptance limits for laboratory QA and QC parameters are based on the laboratory reported acceptance limits and those stated in the NEPM 1999 (April 2013) "*Guideline on Laboratory Analysis of Potentially Contaminated Soils*".

Optimise the Design for Obtaining Data
The following measures were undertaken to ensure accurate data collection:

- The procedures adopted for the location and collection of environmental samples were developed prior to implementation, in accordance with 25% of NSW EPA guidelines and current industry practice. The limited sampling program was designed to ensure integrity of data collection during the assessment, including decontamination techniques, sample labelling, storage and chain of custody protocols.

- The analytical program was developed in theory prior to undertaking the sampling (based on the site history and soil profiles) and refined on the basis of field observations (both surface and sub-surface) during the sampling phase. All potential contaminants have been covered.
- Only laboratories accredited by NATA for the analyses undertaken were used for this assessment. The laboratory performance is assessed through review of statistics calculated for QA samples such as blanks, spikes, duplicates, and surrogates.
- The field QA and QC protocols adopted are outlined in **Section 10.0**. The QA and QC program incorporates preparation of traceable documentation of procedures used in the sampling and analytical program and in data validation procedures.

Data Quality Indicators

The performance of the assessment in achieving the DQO will be assessed through the application of Data Quality Indicators (DQI), defined as follows:

Precision	A quantitative measure of the variability (or reproducibility) of data.
Accuracy	A quantitative measure of the closeness of reported data to the “true” value.
Representativeness	The confidence (expressed qualitatively) that data is representative of each media present on the site.
Completeness	A measure of the amount of useable data from a data collection activity.
Comparability	The confidence (expressed qualitatively) that data can be considered equivalent for each sampling and analytical event.

An assessment of the DQI is presented in **Section 10.0** and **Section 11.0** for field procedures (soil sampling phase) and for laboratory procedures (analytical phase), respectively. Evaluation of QA & QC data is presented in **Section 12.0**.

9.0 SAMPLING, ANALYSIS & QUALITY PLAN AND SAMPLING METHODOLOGY

Sampling and analyses for the assessment were carried out to obtain a reasonable assessment of the following:

1. Nature, location and likely distribution of soil contaminants beneath the site.
2. The risks that the contaminants (if present) pose to human health or the environment under the conditions of the proposed land use.

The risk of harm to human health and the environment was determined through comparison of test results with EPA produced or endorsed criteria available at the time, as discussed in **Section 13.0**.

On 15, 16 & 17 April 2025, our Environmental Scientist carried out sampling across the site as follows:

- In accordance with the NSW EPA (2022) Contaminated Land Guidelines - *Sampling Design part 1 – Application,* for a site area of 24.23 hectares, 264 sampling points are required. However, to gain an "indication" of potential site contamination limited samples were recovered from fifty (50) systematic and fifteen (15) judgmental locations (about 25% of the required sampling number).
- TP101 to TP150 were excavated across the site, which cover systematic soil sampling, which aimed at maximising coverage of the site and minimising the risk of unexpected finds (such as the burial of demolition waste, fill, asbestos waste, etc.).
- TP151 to TP165 were excavated across the site, which covers judgmental soil sampling, aiming to target identified AEC / PAEC (mentioned in Section 7.0) from the previous site investigations.

Reference may be made to Drawing No 20674/1-AA1 for locations of the above-mentioned test pits and boreholes.

The sampling procedures adopted for the assessment were generally as follows:

- The test pits were excavated using an excavator, over the depth interval nominated by the Environmental Scientist. Representative soil samples were recovered directly from the excavator bucket using a stainless steel trowel.
- The stainless steel trowel was decontaminated prior to use between each sampling location, in order to prevent cross contamination (refer to **Section 10.2** for details of the procedures for decontamination of the trowel).
- To minimise the potential loss of organic compounds, the recovered soil sample for laboratory analysis was immediately transferred to a labelled, laboratory supplied, 250ml glass jar and sealed with an airtight, Teflon screw top lid. The fully filled jar was then placed in a chilled container.
- The recovered soil sample for asbestos analysis was transferred into a separate small plastic zip-lock bag, which was placed inside a container.

To measure the reproducibility of test results, duplicate and split (interlaboratory duplicates) samples were prepared for analyses. Each samples was kept in a labelled, laboratory supplied, glass jar (acid-washed and solvent-rinsed) and sealed with an airtight, Teflon screw top lid. The fully filled jar was placed in a chilled container.

The following table summarising the primary sample and the corresponding duplicate / split samples recovered and analysed. As shown in the table prepared, the split samples were prepared from primary sample which was not the same as that prepared for duplicate sample.

Primary Sample	Corresponding Duplicate	Primary Sample	Corresponding Split
TP105 (0.0-0.15m)	DDS1	TP155 (0.2-0.5m)	DSS1
TP142 (0.0-0.15m)	DDS2	TP141 (0.0-0.15m)	DSS2
TP139 (0.0-0.1m)	DDS3	TP165 (0.0-0.1m)	DSS3
TP113 (0.0-0.1m)	DDS4	TP122 (0.0-0.1m)	DSS4
TP121 (0.0-0.1m)	DDS5	TP120 (0.0-0.1m)	DSS5
TP130 (0.0-0.15m)	DDS6	TP137 (0.0-0.1m)	DSS6

A rinsate water samples was collected at completion of each day of sampling and placed in a glass bottle and vial supplied by the laboratory. The fully filled bottle and vial were labelled and placed in a chilled container.

The primary samples in the chilled container with trip spike sample were forwarded under Chain of Custody (COC) conditions to the primary NATA accredited laboratory, SGS Environmental Services (SGS). The split samples in the chilled container were forwarded under COC conditions to the secondary NATA accredited laboratory, Envirolab Services Pty Ltd (Envirolab). On receipt of the samples, the laboratories returned the Sample Receipt Advice verifying the integrity of all the samples received.

Samples for asbestos analysis in plastic bags within the container were delivered to the NATA accredited testing laboratory, Australian Safer Environment & Technology Pty Ltd (ASET). All samples were sent to the laboratory with a completed form. On receipt of the samples, the laboratory returned a signed COC, acknowledging the receipt of samples and verifying the integrity of all the samples received.

Reference should be made to engineering logs in **Appendix C** for descriptions of the soils encountered during sampling on 15, 16 & 17 April 2025 for this assessment.

There was no detectable odour nor obvious staining / discolouration of the soil and vegetation in the test pit/borehole locations or recovered soil samples that would indicate potential for contamination.

Based on the site observation, the soil profiles encountered, data gaps identified within the previous PSI and CA reports from GHD and the potential for contamination / conceptual site model presented in **Section 7.0**, the laboratory analysis plan was implemented and is present in the laboratory analytical reports and certificate in **Appendix D**.

10.0 FIELD QUALITY ASSURANCE AND QUALITY CONTROL

10.1 Sampling Personnel

Geotechnique undertook all the sampling associated with this assessment. An Environmental Scientist from Geotechnique (Kienan Brown) nominated sampling positions based on the project brief prepared by the Project Manager, supervised (full time) the excavation of test pits, logged the soil profile encountered, recovered soil samples at a frequency determined by the sampling plan (project brief), and packed the samples (refer to **Section 9.0**).

Mr Brown has a Bachelor of Science with a major Environmental Science and Zoology and has been employed by Geotechnique as an Environmental Scientist for 2 years. At commencement of employment, Mr Brown underwent supervised training in Geotechnique procedures for sampling and logging.

10.2 Decontamination Procedures

Soil sampling was carried out using an excavator. A stainless-steel trowel was used to transfer the soil sample from the bulk bucket sample to the laboratory supplied glass jar, plastic bottle and plastic bag. Decontamination of the trowel involved the following:

- Removal of soils adhering to the trowel by scrubbing with a brush.
- Washing the trowel thoroughly in a solution of phosphate free detergent (Decon 90) using brushes and disposable towels.
- Rinsing the trowel thoroughly with distilled water.
- Repeating the washing / rinsing steps and rinsing with distilled water.
- Drying the trowel with a clean cloth.
- A sample of the final rinsate water was recovered at completion of each day of sampling.

10.3 Rinsate

Three rinsate water samples (Rinsate RS1, RS2 & RS3) were recovered in order to identify possible cross contamination.

The rinsate water samples were analysed for metals, TRH, BTEX, PAH, OCP, OPP & PCB. The test results for the rinsate water sample are summarised in Table A. A copy of the laboratory analytical report is included in **Appendix D**.

As indicated in Table A, concentrations of analytes in the rinsate water sample were generally less than the laboratory limits of reporting (LOR), which indicates that adequate decontamination had been carried out in the field.

10.4 Trip Spike

Trip spike samples were obtained from the laboratory on a regular basis, prior to conducting field sampling where volatile substances are suspected. The samples are held in the Penrith office of Geotechnique, at less than 4°C, for a period of not more than fourteen days. During the field work, the trip spike sample was kept in the chilled container with soil samples recovered from the site. The trip spike sample was then forwarded to the primary laboratory together with the soil samples recovered from the site.

The trip spike is prepared by the laboratory by adding a known amount of a pure petrol standard to a clean sand sample. The sample is mixed thoroughly to ensure a relatively homogenous distribution of the spike throughout the sample. When the sample is submitted for analysis, the same procedure is adopted for testing as the soil samples being analysed from the site.

The purpose of the trip spike is to detect any loss, or potential loss, of volatiles from the soil samples, during field work, transportation, sample extraction or testing.

Three trip spike samples (TS1, TS2 & TS3) were forwarded to the primary analytical laboratory with the samples collected from the site and tested for BTEX. The test results for the trip spike sample, reported as a percentage recovery of the applied and known spike concentrations, are shown in Table B. A copy of the laboratory analytical report is included in **Appendix D**.

As indicated in Table B, the results show a good recovery of the spike concentrations, ranging between 78% and 106%, which were within the acceptable ranges (60% - 130%). Furthermore, all the BTEX results for the soil samples analysed were less than laboratory detection limits and there was no visible or olfactory indication of hydrocarbon contamination.

Based on the above, it is considered that any loss of volatiles from the recovered samples that might have occurred would not affect the outcome / conclusion of this report.

10.5 Duplicate Samples

Field duplicate samples were prepared in the field through the following processes:

- A larger than normal quantity of soil was recovered from the sample location selected for duplication.
- The sample was divided into two portions, using the decontaminated trowel.
- One portion of the sub-sample was immediately transferred into a labelled, laboratory supplied, 250ml glass jar and sealed with an airtight, Teflon screw top lid. The fully filled jar was then placed in a chilled container.
- The remaining portion was stored in the same way and labelled as the original sample.

Duplicate samples were prepared on the basis of sample numbers recovered during the field work. The duplicate sample frequency was computed using the total number of samples analysed as part of this assessment. The duplicate sample frequencies computed are as follows:

• Metals:	82 samples analysed;	5 duplicates;	16.4% frequency
• TRH, BTEX:	31 samples analysed;	3 duplicates;	10.3% frequency
• PAH:	31 samples analysed;	3 duplicates;	10.3% frequency
• OCP & OPP:	82 samples analysed;	6 duplicates;	13.6% frequency
• PCB	32 samples analysed;	3 duplicates;	10.6% frequency

The duplicate frequency adopted in general complies with Schedule B3 Guideline on Laboratory Analysis of Potentially Contaminated Soils of the NEPM 1999 (April 2013), which recommends a duplicate frequency of 5%.

The duplicate sample test results are summarised in Tables C1 to C6. A copy of the laboratory analytical report is included in **Appendix D**.

A comparison was made of the laboratory test results for the duplicate sample with the original sample, and the Relative Percentage Differences (RPD) were computed to assess the accuracy of the laboratory test procedures. RPD within 30% are generally considered acceptable. However, this variation can be higher for organic analysis than for inorganics and for low concentrations of analytes or non-homogeneous samples.

As shown in Tables C1 to C6, the comparisons between the duplicate and corresponding original sample indicated acceptable RPD for most of the samples. This is due to the low concentrations of some analytes and / or the non-homogeneous nature of the soil samples.

All the concentrations with RPD in excess of 30% in the duplicate pairs were both less than the relevant assessment criteria.

Based on the overall duplicate sample numbers and comparisons, it is concluded that the test results provided by the primary laboratory SGS are of adequate accuracy and reliability for this assessment.

10.6 Split Samples

Split samples provide a check on the analytical performance of the primary laboratory. The split sample was prepared based on sample numbers recovered during the field work, in the same manner as the duplicate sample. Reference should be made to **Section 10.5**. The split sample was forwarded to a secondary laboratory (Envirolab) for analysis.

The split sample frequency was computed using the total number of samples analysed as part of this assessment. The split sample frequencies computed are as follows:

- Metals: 82 samples analysed; 6 splits; 13.6% frequency
- TRH, BTEX: 31 samples analysed; 3 splits; 10.3% frequency
- PAH: 31 samples analysed; 3 splits; 10.3% frequency
- OCP & OPP: 82 samples analysed; 6 splits; 13.6% frequency
- PCB 32 samples analysed; 3 splits; 10.6% frequency

The split sample frequency adopted in general complies with Schedule B3 of the NEPM 1999 (April 2013), which recommends a frequency of 5%.

The split sample test results are summarised in Tables D1 to D6. A copy of the laboratory analytical report and certificate of analysis is included in **Appendix D**.

Based on Schedule B3 of the NEPM 1999 (April 2013) the difference in the results between the split samples should generally be within 30% of the mean concentration determined by both laboratories, i.e., RPD should be within 30%. However, higher variations can be expected for organic analyses compared to inorganic analyses and for samples with low analyte concentrations or non-homogeneous samples.

As shown in Tables D1 to D6 the comparisons between the split and corresponding original samples in general indicated mostly an acceptable RPD. This is due to the low concentrations of some analytes and / or the non-homogeneous nature of the soil samples.

All the concentrations with RPD in excess of 30% in the split pairs were both less than the relevant assessment criteria.

Based on the overall split sample numbers and comparisons, the variations are not considered critical; therefore, it is concluded that the test results provided by the primary laboratory can be relied upon for this assessment.

11.0 LABORATORY QUALITY ASSESSMENT AND QUALITY CONTROL

11.1 Laboratory Accreditation

Only laboratories accredited by the NATA for chemical analyses were used for analysis of samples recovered as part of this assessment. The laboratory must also incorporate quality laboratory management systems to ensure that trained analysts using validated methods and suitably calibrated equipment produce reliable results.

In addition to the QC samples, the laboratory must also ensure that all analysts receive certification as to their competence in carrying out the analysis and participate in national and international proficiency studies.

SGS, ASET and Envirolab are accredited by NATA and operate Quality Systems designed to comply with ISO / IEC 17025.

11.2 Sample Holding Times

The following table lists the allowable holding times of soils and water, detailed in Schedule B3 of the NEPM 1999 (April 2013) and in Standard Methods for the Examination of Water and Wastewater (APHA).

ANALYTE	HOLDING TIME (SOIL)	HOLDING TIME (WATER)
Metals *	6 months	6 months
Mercury (Hg)	28 days	28 days
Total Recoverable Hydrocarbons (TRH)	14 days	7 days
Benzene, Toluene, Ethyl benzene and Xylenes (BTEX)	14 days	14 days
Polycyclic Aromatic Hydrocarbons (PAH)	14 days	7 days
Organochlorine Pesticides (OCP)	14 days	-
Organophosphate Pesticides (OPP)	14 days	-
Polychlorinated Biphenyls (PCB)	14 days	-
pH	7 days	-
CEC	28 days	-

* Metals include Arsenic, Cadmium, Chromium, Copper, Lead, Nickel and Zinc

It should be noted that there is no specific holding time for asbestos analysis.

The actual holding times of the laboratories used for this assessment are shown in the laboratory analytical reports / certificate of analyses in **Appendix D**. All analyses were conducted within the relevant holding times.

11.3 Test Methods and Limits of Reporting / Practical Quantitation Limits

The test methods and LOR / Practical Quantitation Limits (PQL) adopted by the laboratories are indicated with the analytical reports / certificates of analysis in **Appendix D**.

All reported laboratory LOR / PQL were less than the assessment criteria adopted for each analyte or analyte group.

11.4 Method Blanks

Method blank samples are designed to monitor the introduction of incidental or accidental interferences into the analysis, which might result in a false increase in analyte concentration. The blank comprises reagents

specific to each individual analytical method and is analysed in the same manner as the site sample. The reagents are carried through the preparation, extraction and digestion procedures and analysed at the beginning of every sample batch analysis, or at least 1 in 20 samples.

Reagent blank samples for soil samples were analysed by the primary and secondary laboratories for Metals, TRH, BTEX, PAH, OCP and PCB.

The reagent blank sample for rinsate water sample was analysed for metals, TRH, BTEX and PAH by the primary laboratory (SGS).

All reported blank concentrations were below the LOR or PQL, as detailed in the laboratory analytical reports from SGS and certificate of analysis from Envirolab. The results complied with the acceptance criteria for each laboratory (must not be detected at the LOR / PQL).

The test results indicate that there was no interference to the analysis.

11.5 Laboratory Duplicate Samples

The laboratory prepares duplicate samples from the supplied samples (original samples) and/or laboratory spike samples, carries out preparation and testing in the same manner as the original sample. The duplicate sample provides an indication of laboratory precision and reproducibility.

The laboratory prepared duplicates were analysed for the same range of analytes as the samples submitted from the site.

SGS requires 1 duplicate analysed for every 10 samples whilst Envirolab requires 1 duplicate analysed for every 20 samples.

The comparisons between the laboratory duplicates and original samples have been reported on the laboratory test results certificates as RPD.

Maximum Allowable Difference (MAD) was suggested by SGS as RPD criteria for Lab Duplicates.
Note: MAD = 100 x Statistical Detection Limit (SDL) / Mean + Limiting Repeatability.

Reference may be made to SGS analytical reports in **Appendix D** for details of the reported duplicate sample numbers, RPD ranges, as well as acceptance criteria.

As presented in the SGS analytical reports, the duplicate sample numbers and reported RPD were in within the acceptance criteria adopted by the laboratory with exception of some total recoverable elements and TRHs due to sample heterogeneity.

No duplicate sample was reported for Envirolab in the certificate of analysis in **Appendix D** but claims to run one sample in batches of 20 samples. The results are not reported with the laboratory certificates provided to clients; however, claim to be within the laboratory acceptance criteria.

Based on the above, the duplicate sample numbers and reported RPD for SGS and Envirolab were within the acceptance criteria adopted by the laboratories.

11.6 Laboratory Control Samples

A laboratory control sample is a sample of material with known concentrations of various analytes, such as a standard reference material or control matrix. The control sample is analysed with the sample batch and

the recorded concentrations reported as a percentage recovery of the known or expected concentration. At least one control sample is included in each run to confirm calibration validity.

The acceptance criteria for both laboratories are presented below:

SGS: 80% to 120% for metals / inorganics and 60% to 130% for organics
Envirolab: 70% to 130% for metals / inorganics and 60% to 140% for organics

Reference may be made to SGS analytical reports and Envirolab certificate of analyses in **Appendix D** for details of the reported percentage recoveries.

The control sample data presented by the laboratories fall within the acceptance limits of the laboratories.

11.7 Matrix Spikes

The purpose of matrix spikes is to monitor the performance of the analytical methods used and to determine whether matrix interferences exist. Samples are spiked with identical concentrations of the target analyte before extraction or digestion. The results are reported as percentage recoveries of the known spike concentration.

The acceptance criteria for the matrix spike recoveries in soil samples for SGS and Envirolab are 60% to 140% for organics and 70% to 130% for metals / inorganics.

The acceptance criteria for the matrix spike recoveries in water samples for SGS are 60% to 140% for organics and 80% to 120% for metals / inorganics.

The matrix spike data presented by SGS fall within the laboratory acceptance criteria with exception of one OP pesticides in soil and five Total recoverable elements in soil due to the matrix interference.

No matrix spike for the analytes was reported for Envirolab but claims to run one sample in batches of 20 samples. The results are generally not reported with the laboratory certificates provided to clients; however, claim to be within the laboratory acceptance criteria.

11.8 Surrogate Spikes

Surrogate spikes are used during analysis for organics to provide a means of checking that no gross errors have occurred at any stage of the procedure, leading to significant analyte losses. The surrogate spikes are added to each sample, blank, matrix spike, duplicate and control sample before the extraction stage. The percentage recovery of the known spike is recorded and reported on the laboratory report / certificate.

The acceptance limits for the laboratories are as follows:

SGS: 60% to 130% for soil and 40% to 130% for water
Envirolab: 60% to 140%

Reference may be made to SGS analytical reports and Envirolab certificate of analyses in **Appendix D** for details of the reported recovery percentages.

As shown in laboratory reports / certificate, the surrogate spike data presented by the laboratories fall within the acceptance limits of the laboratories.

12.0 QA & QC DATA EVALUATION

All QA and QC details are presented in **Sections 10.0** and **11.0**.

The following table provides a list of the DQI for the field procedures (soil sampling phase) of the assessment, and the methods adopted to ensure that the data quality indicators are met.

DATA QUALITY INDICATOR	ACHIEVEMENT
Precision and Accuracy	Use of trained and qualified field staff. Appropriate industry standard decontamination procedures adopted. Rinsate blank water, trip spike, field duplicate, and inter-laboratory duplicate (split) samples recovered or prepared. Refer to **Section 10.0** for all the above.
Representativeness	Good sampling coverage of the soils of concern. Sample numbers and selection of sampling patterns complies with NSW EPA sampling design guidelines. Collection and analysis of soil samples was in accordance with the sampling and analysis plan. Representative coverage of potential contaminants, based on the site history and soil profiles.
Completeness	Grid soil sampling at predetermined locations, spacing and depths. All soils of concern (potential contamination) sampled. On site visual assessment of soils uncovered. Preparation of sample location plan. Records of test pit logs. Field duplicate sample numbers complying with NEPM. Inter-laboratory duplicate (split) numbers complying with NEPM. One Rinsate sample recovered per day per equipment. Trip spike sample prepared and sent with sample batch. Preparation of COC records.
Comparability	Using appropriate techniques for sample recovery. Using the same sampling and decontamination procedures for the fieldwork. Experienced sampler used. Using appropriate sample storage and transportation methods for sampling.

The following table provides a list of the DQI for the laboratory procedures (analytical phase) of the assessment and the methods adopted in ensuring that the DQI were met.

DATA QUALITY INDICATOR	ACHIEVEMENT
Precision and Accuracy	Use of analytical laboratories experienced in the analyses undertaken, with appropriate NATA certification. NATA accreditation requires adequately trained and experienced testing staff. Rinsate blank water, trip spike, field duplicate, and inter-laboratory duplicate (split) samples analysed. Acceptable concentrations in rinsate blank water sample. Acceptable recoveries of spike concentrations in trip spike sample. Acceptable RPD for duplicate comparison overall. Acceptable RPD for inter-laboratory duplicate (split) sample comparison overall. Appropriate and validated laboratory test methods used. Adequate laboratory performance based on results of the blank, duplicate, control, matrix spike, and surrogate samples.
Representativeness	Representative coverage of potential contaminants, based on the site history and soil profiles. Adequate rinsate, trip spike, duplicate and split sample numbers. Adequate laboratory internal QC and QA methods, complying with the NEPM.
Completeness	Analysis for all potential contaminants of concern in the open area of the site. Laboratory sample receipt information received, confirming receipt of samples intact and appropriate COC. NATA registered laboratory analytical reports / certificates of analysis provided.
Comparability	Use of NATA registered laboratories. Test methods consistent for each sample. Test methods comparable between primary and secondary laboratory. Generally acceptable RPD between original samples and field duplicates and inter-laboratory duplicate (split) samples. Some high RPD recorded mainly due to the low concentrations of some analytes and / or the heterogeneity of the samples.
Sensitivity	Appropriate laboratory analysis methods. Appropriate laboratory LOR / PQL

As discussed in **Section 10.0**, some duplicate and split sample comparisons reported RPD exceeding the generally accepted limit for some metals. This has been attributed to the low concentrations of some analytes.

As discussed in **Section 11.0**, the results are considered acceptable as all QA and QC sample data of both laboratories fall within the acceptance criteria adopted.

Based on the above, it is considered that the QA and QC DQI have been complied with, both in the field and in the laboratories. As such, it is concluded that the laboratory test data obtained as part of this assessment is reliable and useable.

13.0 ASSESSMENT CRITERIA

Investigation levels and screening levels developed in the NEPM 1999 (April 2013) will be used for this assessment, as follows:

- Risk-based Health Investigation Levels (HIL) for a broad range of metals and organic substances. The HIL are applicable for assessing human health risk via all relevant pathways of exposure. The HIL as listed in Table 1A (1) of Schedule B1 "Guideline on Investigation Levels for Soil and Groundwater" are provided for different land uses.

  The site is proposed for residential subdivision land use. As such, with regard to human health, analytical results will be assessed against the available HIL for residential land use (HIL A). Health Screening Levels (HSL) for selected petroleum compounds, fractions and Naphthalene are applicable for assessing human health risk via inhalation pathways. The HSL depend on specific soil physicochemical properties, land use scenarios and the characteristics of building structures. The HSL listed in Table 1A(3) of Schedule B1 "Guideline on Investigation Levels for Soil and Groundwater" apply to different soil types and depths below surface to >4 m.

  For this assessment, the analytical results will be assessed against the available HSL for clay to depths of 0m to <2 m for residential land use (HSL A).

- Ecological Screening Levels (ESL) for selected petroleum hydrocarbon compounds, TPH fractions and Benzo(a)Pyrene (BaP) are applicable for assessing the risk to terrestrial ecosystems. ESL listed in Table 1B(6) of Schedule B1 "Guideline on Investigation Levels for Soil and Groundwater" broadly apply to coarse and fine-grained soils and various land uses and are generally applicable to the top 2m of soil.

- Ecological Investigation Levels (EIL), a specific type of Soil Quality Guidelines (SQG) for selected metals, Naphthalene and DDT are applicable for assessing the risk to terrestrial ecosystems. EIL listed in Table 1B(1-5) of Schedule B1 "Guideline on Investigation Levels for Soil and Groundwater" depend on specific soil physicochemical properties and land use scenarios and generally apply to the top 2m of soil. The EIL are calculated using 30% effect concentration (EC30) or lowest observed effect concentrations (LOEC) toxicity data.

  For this assessment, the analytical results will be assessed against the available EIL for aged contamination in soil for residential land use.

  For arsenic, Naphthalene and DDT, generic EIL for urban residential are adopted for aged contaminants. For other metals, EIL are the sum of the added contaminant limit (ACL) and the ambient background concentration (ABC). Where available, EIL are calculated using the EIL calculator developed by CSIRO for NEPC.

- For HSL for asbestos contamination in soil, the adopted assessment criteria are:
  - 0.01% w/w for bonded asbestos containing material (ACM) for residential land use.
  - 0.001% for fibrous asbestos (FA) and asbestos fines (AF), both friable asbestos in soil.
  - No visible asbestos on surface soil.

The soil / site will be deemed contaminated if the above criteria are unfulfilled. Further investigation, remediation and / or management will be recommended if the soil / site is found to be contaminated.

14.0 SOIL FIELD RESULTS

Soil logs were completed during the field investigation. Logging of soil profiles was carried out in accordance with AS1726-2017 Australian Standard Geotechnical site investigations.

14.1 Sub-Surface Conditions

The general soil profile encountered during the soil investigation was a layer of topsoil / filling (to the depths of up to 0.2 mBGL), overlying natural silty clay. More details are provided in table below and engineering logs are presented in **Appendix C**.

Layer	Description	Minimum and Maximum Depth (mBGL)
Topsoil	Silty clay / Clayey silt, low to medium plasticity, brown, with gravel, trace root fibres	0.3
Fill	Silty Clay, low plasticity, brown to orange, trace rootlets and gravel	1.5
Natural	Silty CLAY, medium to high plasticity, orange to brown, with gravel, trace sand	0.1 – 2.5+

Note 1 + Termination depth of deepest borehole.

14.2 Field Observations

Soil samples were collected from the test pits and boreholes at various depths ranging from 0.0 to 1.65 mBGL. All examined soil samples were evaluated on a qualitative basis for odour and visual signs of contamination (e.g., hydrocarbon odours, oil staining, petrochemical filming, asbestos fragments, ash, charcoal) and the following observations were noted:

- No soil staining or odour was observed in any of the drilled/excavated soils.

15.0 LABORATORY TEST RESULTS, ASSESSMENT & DISCUSSION

The test results are presented in Tables E to J together with the assessment criteria adopted. A copy of the laboratory analytical reports and certificate of analysis is included in **Appendix D**. A discussion of the test results is presented in the following sub-sections.

15.1 Metals (As, Cd, Cr, Cu, Pb, Hg, Ni & Zn), CEC& pH

Test results of CEC and pH were adopted to calculate EIL in Table E.

The Metals test results for discrete samples are presented in Table E, and as indicated, most concentrations of Metals were below the relevant available EIL and HIL A, with the exceptions of:

- Cu (510mg/kg) and Zn (2000mg/kg & 930mg/kg) exceeded adopted EIL.
- Pb (430mg/kg) exceeded HIL A.

The total chromium results exceeded the HIL A for TP145 (0.0-0.15), TP150 (0.0-0.1), TP150 (0.15-0.25) and TP153 (1.0-1.3). Further test for hexavalent chromium Cr6+ were conducted and the results were less than HIL A, meaning it is chromium Cr3 which is an essential micronutrient and has low toxicity.

15.2 Total Petroleum / Recoverable Hydrocarbons (TPH / TRH) and BTEX

The TRH and BTEX test results are presented in Table F. The concentrations of F1 TRH, F2 TRH, F3 TRH, F4 TRH and BTEX were below the relevant HSL A and / or ESL adopted. Moreover, most test results were below the laboratory LOR.

15.3 Polycyclic Aromatic Hydrocarbons (PAH)

As shown in Table G, all the concentrations of BaP (TEQ), Total PAH, Naphthalene and BaP were well below the relevant HIL A, HSL A and EIL. Moreover, most test results were below the laboratory LOR.

15.4 Organochlorine Pesticides (OCP)

As shown in Table H, the concentrations of OCP were well below the relevant HIL A. Concentrations of DDT were also below the EIL. Moreover, all the test results were below the laboratory LOR.

15.5 Organophosphorus Pesticides (OPP)

As shown in Table H, the concentrations of Chlorpyrifos were well below the relevant HIL A adopted as well as below the laboratory LOR.

15.6 Polychlorinated Biphenyls (PCB) and Phenols

As shown in Table H, the concentrations of PCB and Phenols were below the HIL A and less than laboratory LOR.

15.7 Asbestos

The asbestos test results are presented in Table I and as indicated, AF and FA more than 0.001%w/w were not found in any analysed soil samples. Moreover, ACM (>7mm) exceeding the 0.01% w/w (soil assessment criterion) were not found in analysed soil samples with the exception of TP157 (0.0-0.15). Five fibro cement pieces tested positive for ACM as shown in Table I.

15.8 PFAS

As shown in Table J, the concentrations of PFAS were below the HIL A.

16.0 SITE CHARACTERISATION

16.1 Subsurface Conditions

Majority of the site was covered by topsoil (approximately 0.2m below the EGL) underlain by natural silty clay. Fill materials were encountered in TP113, TP130, TP141, TP142, TP143, TP148, TP151, TP152, TP153, TP154, TP155, TP157 and TP162, generally comprising Silty Clay, low to medium plasticity, orange to brown, with gravel/rootlets with inclusions of concrete, pavers, metal wire, bricks and tiles fragments at depths ranging from approximately 0.2m to about 1.5m below the EGL.

16.2 Soil Impacts

Human Health

- Lead in TP151 (0.0-0.3) in the stockpile in the northwestern portion of the site exceeded HIL A.
- Bonded ACM (>7mm) in soil sample TP157 (0.0-0.15) exceeded the HSL A.
- Five fibro-cement piece samples tested positive as ACM - FCP150 (surface sample), FCP151 (0.0-0.3), FCP152 (0.0-0.3), FCP152 (0.5-0.8) and FCP157 (0.0-0.15).

Ecological

Exceedances of the EIL were present for copper and zinc in sample TP151 (0.0-0.3) and zinc in sample TP151 (0.5-0.8). It is noted that TP151 was located in the stockpile located at the northwestern portion of the site. Nickel exceedance for EIL was identified at one location (TP11) near the hangar building in the previous PSI (GHD, 2024). However, based on the Master Plan (**Appendix A**), the current hangar building will remain on site. Therefore, the Nickel exceedance for EIL at TP11 is considered negligible.

16.3 Review of Conceptual Site Model

On the basis of the DSI findings, the CSM discussed in **Section 7.0** was considered to appropriately identify contamination sources, migration mechanisms and exposure pathways, as well as potential on-site and off-site receptors. Further data gaps were identified which will require closure in order to demonstrate suitability of the site for the proposed development. The data gap is:

- The condition of soil within the footprint of the stockpile after removal.

17.0 CONCLUSION

The DQO outlined in the report have been satisfied. The findings of this DSI are summarised as follows:

- The site consists of rural open grass land that is utilised for livestock grazing in the northern / northwestern portion of the site. A stockpile was noted in the northwestern portion of the site.
- Based on the site history and site inspection, several areas of concern and potential contaminants were identified within the site as summarised in the table presented in **Section 7.0**.
- The general soil profile encountered during the soil investigation was a layer of topsoil / filling (to the depths of up to 0.2 mBGL), overlying natural silty clay.
- No contaminants of concern (primary metals, BTEX compounds, PAHs, OCPs, OPPs, PCBs, Phenols and PFAS) were reported at concentrations above adopted health-based criteria with exception of Lead in sample TP151 (0.0-0.3) as indicated in Drawing No. 20674/1-AA2.
- Bonded ACM (>7mm) in soil sample TP157 (0.0-0.15) exceeded the HSL A. Five fibro-cement piece samples tested positive as ACM - FCP150 (surface sample), FCP151 (0.0-0.3), FCP152 (0.0-0.3), FCP152 (0.5-0.8) and FCP157 (0.0-0.15).
- Exceedances of the EIL were present for copper and zinc in sample TP151 (0.0-0.3) and zinc in sample TP151 (0.5-0.8).
- Data gap was identified in the current conceptual site model.

Based on the findings obtained from this DSI, and with consideration of Geotechnique's *Statement of Limitations* (**Section 19.0**), Geotechnique concludes that the site can be made suitable for proposed land use being residential development, provided the recommendations detailed in **Section 18.0** are implemented.

Geotechnique note that the site contamination issues can be managed through the development application process in accordance with the *State Environmental Planning Policy 55 (SEPP 55) – Remediation of Land*, with the requirements for remediation and validation incorporated into conditions of development consent.

18.0 RECOMMENDATIONS

Geotechnique provides the following recommendations:

- Preparation and implementation of a Remedial Action Plan (RAP), which should:
  - Detail investigations to close the data gaps identified during this investigation.
  - Outline the remediation requirements for contamination identified during this DSI and other contamination that may be identified during data gap closure investigations.
  - Provide the requirements and procedure for waste classification assessment, in order to enable classification of site soils/stockpile to be excavated and disposed off-site, in accordance with the EPA (2014) *Waste Classification Guidelines.*
  - Provide an unexpected finds protocol for implementation during site excavation to ensure any potential contamination sources (e.g. soil staining, asbestos) that may be identified are managed in accordance with the NSW EPA legislation and guidelines.
  - Provide a SAQP for the validation of remediation activities performed on-site.
- Undertake supplementary investigations, and subsequent remediation and validation works for the site, as outlined in the RAP.
- Preparation of a final site validation report by a suitably qualified environmental consultant, certifying site suitability of soils for the proposed land use.

For any materials to be excavated and removed from the site, it is recommended that waste classification of the materials, in accordance with the "Waste Classification Guidelines Part 1: Classifying Waste" NSW EPA 2014; NSW EPA resource recovery exemptions and orders under the Protection of the Environment Operations (Waste) Regulation 2014; or NSW EPA *Certification: Virgin excavated natural material* is undertaken prior to disposal at a facility that can lawfully accept the materials.

Any imported soil (fill) must be assessed by a qualified environmental consultant, prior to importation, to ensure suitability for the proposed use. In addition, the imported fill must not contain asbestos and ash, be free of unusual odour, not discoloured and not acid sulphate soil or potential acid sulphate soil. The imported fill should either be virgin excavated natural material (VENM) or excavated natural material (ENM).

19.0 LIMITATIONS

The services performed by Geotechnique in preparing this report were conducted in a manner consistent with the level of quality and skill generally exercised by members of the profession and consulting practice.

This report has been prepared for the purposes stated within. This report can also be relied upon by Orange City Council for development and building application assessment processes. Any reliance on this report by other parties shall be at such parties' sole risk as the report might not contain sufficient information for other purposes.

This report shall only be presented in full and may not be used to support any other objective than those set out in the report, except where written approval is provided by Geotechnique.

The information in this report is considered accurate at the date of issue, in accordance with current site conditions during site inspection and field sampling for this assessment (15, 16 & 17 April 2025). Any variations to the site form or use beyond that date could nullify the conclusion stated.

No contamination assessment can eliminate all risk. Even a rigorous professional assessment might not detect all contamination within a site. Whilst the assessment conducted at the site was carried out in accordance with current NSW guidelines, the potential always exists for contaminants and contaminated soils to be present between sampled locations and in the grass covered areas.

Presented in **Appendix E** is a document entitled "Environmental Notes", which should be read in conjunction with this report.

LIST OF REFERENCES

Contaminated Land Guidelines Sampling Design Part 1 - Application – NSW EPA 2022

Contaminated Land Management Act 1997

Contaminated Land Management Regulation 1998

Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites – NSW Environment Protection Authority 2020

Contaminated Sites: Guidelines for the NSW Site Auditor Scheme (3rd Edition) – NSW Environment Protection Authority 2017

Geology of Orange 1:50,000 Sheet (9030-1) – Geological Survey of New South Wales, Department of Mines 1967

Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia, 2009

National Environment Protection (Assessment of Site Contamination) Measures, 1999 (April 2013) - National Environmental Protection Council

Protection of the Environment Operations Act – 1997

Soil Landscape of Central and Eastern NSW v3.0.1, Department of Climate Change Energy Environment and Water,2024

State Environmental Planning Policy (Resilience and Hazards) 2021 under the Environmental Planning and Assessment Act 1979

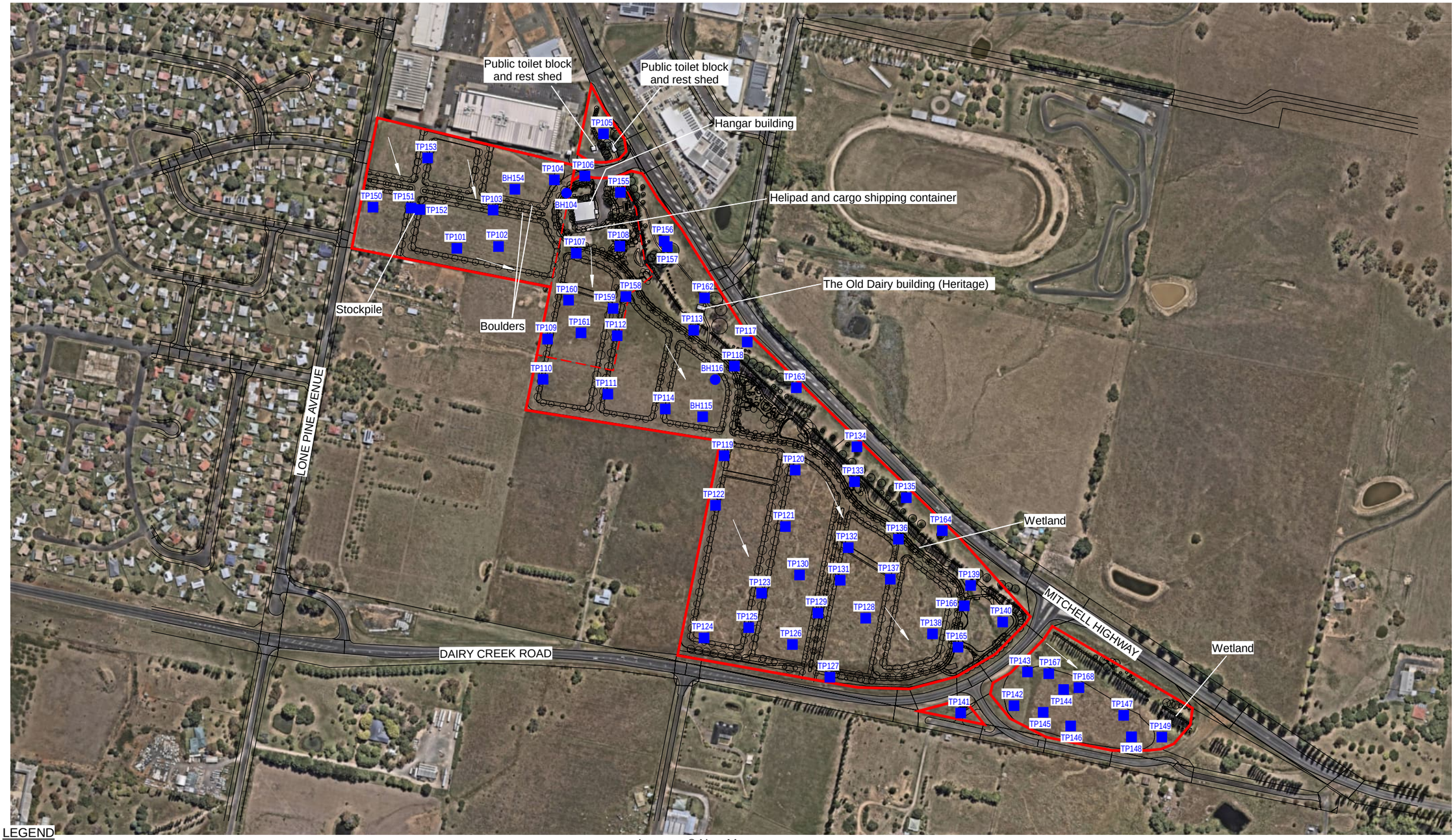
Waste Classification Guidelines Part 1: Classifying Waste – NSW EPA 2014

ABBREVIATIONs

HSL	*Health-based Screening Level*
km	*Kilometres*
LEP	*Local Environmental Plan*
LGA	*Local Government Area*
EIL	*Ecological Investigation Level*
ESL	*Ecological Screening Level*
FCP	*Fibro Cement Piece*
LOR	*Limit of Reporting*
m	*Metres*
m AHD	*Metres Australian Height Datum*
m BGL	*Metres Below Ground Level*
NATA	*National Association of Testing Authorities, Australia*
NEMP	*National Environment Management Plan*
NEPC	*National Environmental Protection Council*
NEPM	*National Environment Protection Measures*
PAHs	*Polycyclic Aromatic Hydrocarbons*
PFAS	*Per or Poly-Fluroalkyl Substances*
PFOS	*Perfluorooctane sulfonate*
pH	*Measure of the acidity or basicity of an aqueous solution*
PID	*Photo-ionisation Detector*
PQL	*Practical Quantitation Limit (limit of detection for respective laboratory instruments)*
QA/QC	*Quality Assurance / Quality Control*
SRA	*Sample receipt advice (document confirming laboratory receipt of samples)*
TEQ	*Toxic Equivalent Quotient*
TP	*Test Pit*
TPH	*Total Petroleum Hydrocarbons (superseded term equivalent to TRH)*
TRH	*Total Recoverable Hydrocarbons (non-specific analysis of organic compounds)*

DRAWING

Drawing No 20674/1-AA1	*Site Features, Test Pit & Borehole Locations*
Drawing No 20674/1-AA2	*Locations of Concern*



LEGEND

- Test Pit
- Borehole
- Slope

Imagery © NearMap.com

0 50 100 150 200 250m

Scale 1:5000

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NOTES

1. This drawing has been produced using a base plan provided by others, to which additional information e.g., test pits, borehole locations or notes have been added. Some or all of the information on this plan may not be relevant at the time of producing this drawing.
2. Site features are shown at approximate locations and are not to scale.

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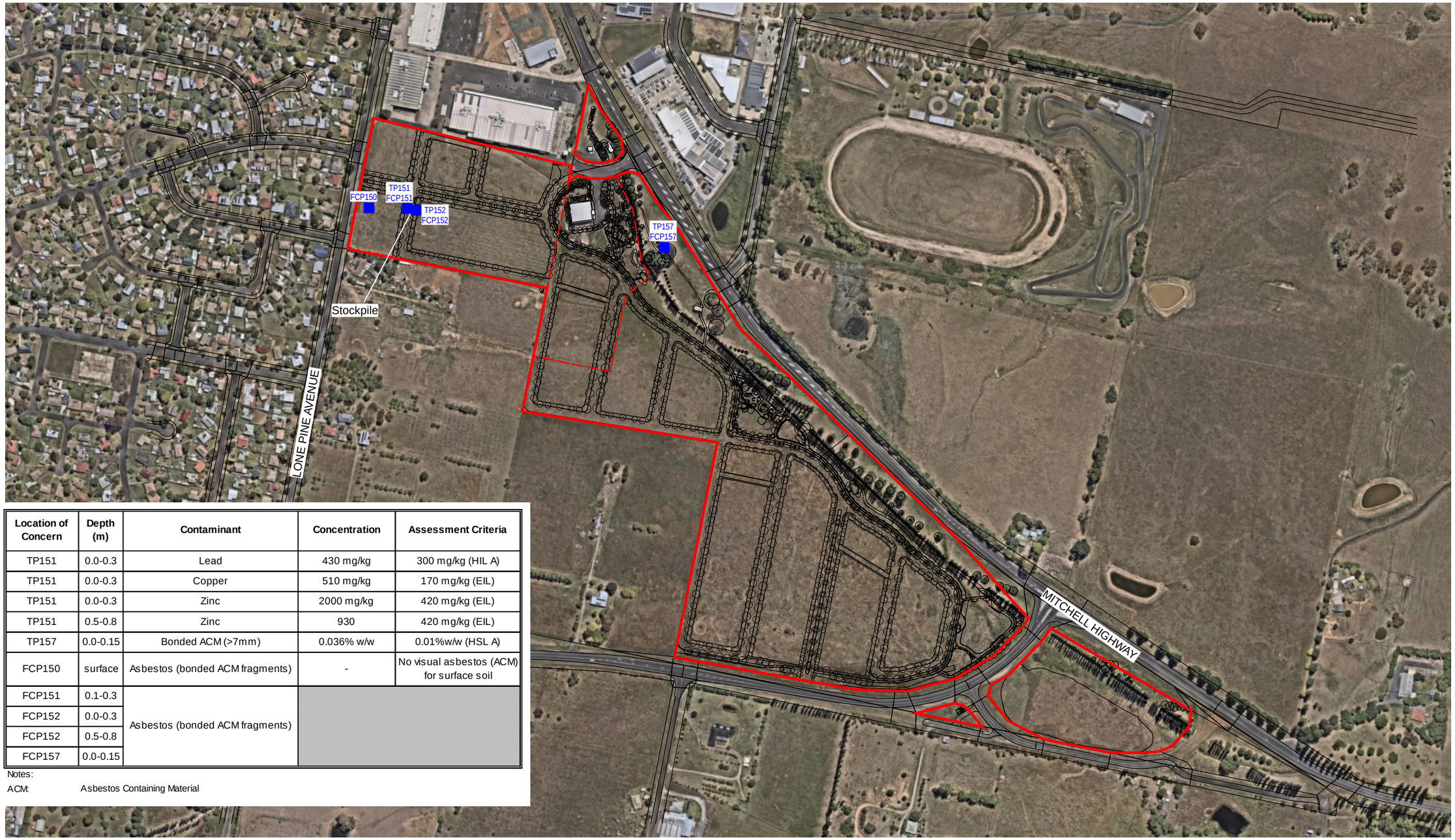
BPA 16642
Redmond Place
Orange

Site Features, Test Pit and Borehole Locations

Drawing No: 20674/1-AA1
Job No: 20674/1
Drawn By: MH
Date: 26 June 2025
Checked By: KB/LY

File No: 20674-1
Layers: 0, AA1



Location of Concern	Depth (m)	Contaminant	Concentration	Assessment Criteria
TP151	0.0-0.3	Lead	430 mg/kg	300 mg/kg (HIL A)
TP151	0.0-0.3	Copper	510 mg/kg	170 mg/kg (EIL)
TP151	0.0-0.3	Zinc	2000 mg/kg	420 mg/kg (EIL)
TP151	0.5-0.8	Zinc	930	420 mg/kg (EIL)
TP157	0.0-0.15	Bonded ACM (>7mm)	0.036% w/w	0.01%w/w (HSL A)
FCP150	surface	Asbestos (bonded ACM fragments)	-	No visual asbestos (ACM) for surface soil
FCP151	0.1-0.3	Asbestos (bonded ACM fragments)		
FCP152	0.0-0.3			
FCP152	0.5-0.8			
FCP157	0.0-0.15			

Notes:
ACM: Asbestos Containing Material

Imagery © NearMap.com

LEGEND

Test Pit

0 50 100 150 200 250m

Scale 1:5000

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Orange

Locations of Concern

Drawing No: 20674/1-AA2
Job No: 20674/1
Drawn By: MH
Date: 26 June 2025
Checked By: LY

File No: 20674-1
Layers: 0, AA2

TABLES

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TABLE A
RINSATE
(Ref No: 20674/1-AA)

SAMPLE DATE	RS1 15/04/2025	RS2 16/04/2025	RS3 17/04/2025
METAL	**(mg/L)**	**(mg/L)**	**(mg/L)**
Arsenic	<0.02	<0.02	<0.02
Cadmium	<0.001	<0.001	<0.001
Chromium	<0.005	<0.005	<0.005
Copper	<0.005	<0.005	<0.005
Lead	<0.02	<0.02	<0.02
Mercury	<0.0001	<0.0001	<0.0001
Nickel	<0.005	<0.005	<0.005
Zinc	<0.01	<0.01	<0.01
TOTAL RECOVERABLE HYDROCARBON (TRH)	**(µg/L)**	**(µg/L)**	**(µg/L)**
F1 (C6-C10 less BTEX)	<50	<50	<50
F2 (>C10-C16)	<60	<60	<60
F3 (>C16-C34)	<500	<500	<500
F4 (>C34-C40)	<500	<500	<500
BTEX	**(µg/L)**	**(µg/L)**	**(µg/L)**
Benzene	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5
Ethyl Benzene	<0.5	<0.5	<0.5
Xylenes	<1.5	<1.5	<1.5
POLYCYCLIC AROMATIC HYDROCARBON (PAH)	**(µg/L)**	**(µg/L)**	**(µg/L)**
Total PAH	<1	<1	<1
Naphthalene	<0.1	<0.1	<0.1
Benzo(a)Pyrene	<0.1	<0.1	<0.1

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TABLE B
TRIP SPIKE
(Ref No: 20674/1-AA)

Sample	Sampling Date	BTEX			
		Benzene	Toluene	Ethylbenzene	Xylenes
TS1	15/04/2025	105%	106%	102%	102%
TS2	16/04/2025	78%	98%	106%	104%
TS3	17/04/2025	81%	80%	79%	81%

Note : results are reported as percentage recovery of known spike concentrations

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TABLE C1
DUPLICATE SAMPLE
(Ref No: 20674/1-AA)

ANALYTE	TP105 0.0-0.15 (m) mg/kg	DDS1 mg/kg	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	1	2	67
Cadmium	<0.3	<0.3	-
Chromium	25	16	44
Copper	12	13	8
Lead	17	16	6
Mercury	<0.05	0.06	-
Nickel	9	9.9	10
Zinc	20	22	10
ORGANOCHLORINE PESTICIDES (OCP)			
Endosulfan (alpha, beta & sulphate)	<0.3	<0.3	-
DDD+DDE+DDT	<0.3	<0.3	-

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TABLE C2
DUPLICATE SAMPLE
(Ref No: 20674/1-AA)

ANALYTE	TP142 0.0-0.15 (m) mg/kg	DDS2 mg/kg	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	3	5	50
Cadmium	<0.3	<0.3	-
Chromium	25	72	97
Copper	22	23	4
Lead	12	13	8
Mercury	<0.05	<0.05	-
Nickel	12	14	15
Zinc	31	33	6
TOTAL RECOVERABLE HYDROCARBONS (TRH)			
F1 (C6-C10 less BTEX)	<25	<25	-
F2 (>C10-C16)	<25	<25	-
F3 (>C16-C34)	<90	<90	-
F4 (>C34-C40)	<120	<120	-
BTEX			
Benzene	<0.1	<0.1	-
Toluene	<0.1	<0.1	-
Ethyl Benzene	<0.1	<0.1	-
Xylenes	<0.3	<0.3	-
POLYCYCLIC AROMATIC HYDROCARBONS			
Benzo(a)Pyrene TEQ	<0.3	<0.3	-
Total PAH	<0.1	<0.1	-
Naphthalene	<0.1	<0.1	-
Benzo(a)Pyrene	<0.1	<0.1	-
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.2	<0.2	-
Endrin	<0.1	<0.1	-
Methoxychlor	<0.1	<0.1	-
Mirex	<0.1	<0.1	-
Endosulfan (alpha, beta & sulphate)	<0.3	<0.3	-
DDD+DDE+DDT	<0.3	<0.3	-
Chlordane (alpha & gamma)	<0.2	<0.2	-
ORGANOPHOSPHATE PESTICIDES (OPP)			
Chlorpyrifos (Chlorpyrifos Ethyl)	<0.2	<0.2	-
POLYCHLORINATED BIPHENYLS (PCB)			
Total PCB	<0.1	<0.1	-

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TABLE C3
DUPLICATE SAMPLE
(Ref No: 20674/1-AA)

ANALYTE	TP139 0.0-0.1 (m) mg/kg	DDS3 mg/kg	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.2	<0.2	-
Endrin	<0.1	<0.1	-
Methoxychlor	<0.1	<0.1	-
Mirex	<0.1	<0.1	-
Endosulfan (alpha, beta & sulphate)	<0.3	<0.3	-
DDD+DDE+DDT	<0.3	<0.3	-
Chlordane (alpha & gamma)	<0.2	<0.2	-

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TABLE C4
DUPLICATE SAMPLE
(Ref No: 20674/1-AA)

ANALYTE	TP113 0.0-0.1 (m) mg/kg	DDS4 mg/kg	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	4	3	29
Cadmium	<0.3	<0.3	-
Chromium	29	8.6	109
Copper	12	11	9
Lead	55	28	65
Mercury	<0.05	<0.05	-
Nickel	5.3	5	6
Zinc	56	23	84
TOTAL RECOVERABLE HYDROCARBONS (TRH)			
F1 (C6-C10 less BTEX)	<25	<25	-
F2 (>C10-C16)	<25	<25	-
F3 (>C16-C34)	<90	<90	-
F4 (>C34-C40)	<120	<120	-
BTEX			
Benzene	<0.1	<0.1	-
Toluene	<0.1	<0.1	-
Ethyl Benzene	<0.1	<0.1	-
Xylenes	<0.3	<0.3	-
POLYCYCLIC AROMATIC HYDROCARBONS			
Benzo(a)Pyrene TEQ	<0.3	<0.3	-
Total PAH	<0.1	<0.1	-
Naphthalene	<0.1	<0.1	-
Benzo(a)Pyrene	<0.1	<0.1	-
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.2	<0.2	-
Endrin	<0.1	<0.1	-
Methoxychlor	<0.1	<0.1	-
Mirex	<0.1	<0.1	-
Endosulfan (alpha, beta & sulphate)	<0.3	<0.3	-
DDD+DDE+DDT	<0.3	<0.3	-
Chlordane (alpha & gamma)	<0.2	<0.2	-
ORGANOPHOSPHATE PESTICIDES (OPP)			
Chlorpyrifos (Chlorpyrifos Ethyl)	<0.2	<0.2	-
POLYCHLORINATED BIPHENYLS (PCB)			
Total PCB	<0.1	<0.1	-

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TABLE C5
DUPLICATE SAMPLE
(Ref No: 20674/1-AA)

ANALYTE	TP121 0.0-0.1 (m) mg/kg	DDS5 mg/kg	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	1	2	67
Cadmium	<0.3	<0.3	-
Chromium	22	20	10
Copper	16	19	17
Lead	10	9	11
Mercury	<0.05	<0.05	-
Nickel	4.3	4.6	7
Zinc	15	18	18
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.2	<0.2	-
Endrin	<0.1	<0.1	-
Methoxychlor	<0.1	<0.1	-
Mirex	<0.1	<0.1	-
Endosulfan (alpha, beta & sulphate)	<0.3	<0.3	-
DDD+DDE+DDT	<0.3	<0.3	-
Chlordane (alpha & gamma)	<0.2	<0.2	-

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TABLE C6
DUPLICATE SAMPLE
(Ref No: 20674/1-AA)

ANALYTE	TP130 0.0-0.15 (m) mg/kg	DDS6 mg/kg	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	2	3	40
Cadmium	<0.3	<0.3	-
Chromium	28	18	43
Copper	28	27	4
Lead	9	9	0
Mercury	<0.05	<0.05	-
Nickel	4.1	4.5	9
Zinc	30	31	3
TOTAL RECOVERABLE HYDROCARBONS (TRH)			
F1 (C6-C10 less BTEX)	<25	<25	-
F2 (>C10-C16)	<25	<25	-
F3 (>C16-C34)	110	<90	-
F4 (>C34-C40)	<120	<120	-
BTEX			
Benzene	<0.1	<0.1	-
Toluene	<0.1	<0.1	-
Ethyl Benzene	<0.1	<0.1	-
Xylenes	<0.3	<0.3	-
POLYCYCLIC AROMATIC HYDROCARBONS			
Benzo(a)Pyrene TEQ	<0.3	<0.3	-
Total PAH	<0.1	<0.1	-
Naphthalene	<0.1	<0.1	-
Benzo(a)Pyrene	<0.1	<0.1	-
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.2	<0.2	-
Endrin	<0.1	<0.1	-
Methoxychlor	<0.1	<0.1	-
Mirex	<0.1	<0.1	-
Endosulfan (alpha, beta & sulphate)	<0.3	<0.3	-
DDD+DDE+DDT	<0.3	<0.3	-
Chlordane (alpha & gamma)	<0.2	<0.2	-
ORGANOPHOSPHATE PESTICIDES (OPP)			
Chlorpyrifos (Chlorpyrifos Ethyl)	<0.2	<0.2	-
POLYCHLORINATED BIPHENYLS (PCB)			
Total PCB	<0.1	<0.1	-

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TABLE D1
SPLIT SAMPLE
(Ref No: 20674/1-AA)

ANALYTE	TP155 0.2-0.5 (m) mg/kg (SGS)	DSS1 mg/kg (ENVIROLAB)	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	26	29	11
Cadmium	<0.3	<0.4	-
Chromium	8.1	11	30
Copper	31	51	49
Lead	8	11	32
Mercury	<0.05	<0.1	-
Nickel	9.1	10	9
Zinc	31	33	6
TOTAL RECOVERABLE HYDROCARBONS (TRH)			
F1 (C6-C10 less BTEX)	<25	<25	-
F2 (>C10-C16)	<25	<50	-
F3 (>C16-C34)	<90	<100	-
F4 (>C34-C40)	<120	<100	-
BTEX			
Benzene	<0.1	<0.2	-
Toluene	<0.1	<0.5	-
Ethyl Benzene	<0.1	<1	-
Xylenes	<0.3	<1	-
POLYCYCLIC AROMATIC HYDROCARBONS (PAH)			
Benzo(a)Pyrene TEQ	<0.3	<0.5	-
Total PAH	<0.1	<0.05	-
Naphthalene	<0.1	<0.1	-
Benzo(a)Pyrene	<0.1	<0.05	-
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.2	<0.2	-
Endrin	<0.1	<0.1	-
Methoxychlor	<0.1	<0.1	-
Endosulfan (alpha (I), beta (II) & sulphate)	<0.3	<0.3	-
DDD+DDE+DDT	<0.3	<0.1	-
Chlordane (alpha & gamma)	<0.2	<0.2	-
ORGANOPHOSPHATE PESTICIDES (OPP)			
Chlorpyriphos	<0.2	<0.1	-
POLYCHLORINATED BIPHENYLS (PCB)			
Total PCB	<0.1	<0.1	-

GEOTECHNIQUE PTY LTD

TABLE D2
SPLIT SAMPLE
(Ref No: 20674/1-AA)

ANALYTE	TP141 0.0-0.15 (m) mg/kg (SGS)	DSS2 mg/kg (ENVIROLAB)	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	3	6	67
Cadmium	<0.3	<0.4	-
Chromium	43	53	21
Copper	21	37	55
Lead	14	27	63
Mercury	<0.05	<0.1	-
Nickel	6.6	11	50
Zinc	24	25	4
TOTAL RECOVERABLE HYDROCARBONS (TRH)			
F1 (C6-C10 less BTEX)	<25	<25	-
F2 (>C10-C16)	<25	<50	-
F3 (>C16-C34)	<90	<100	-
F4 (>C34-C40)	<120	<100	-
BTEX			
Benzene	<0.1	<0.2	-
Toluene	<0.1	<0.5	-
Ethyl Benzene	<0.1	<1	-
Xylenes	<0.3	<1	-
POLYCYCLIC AROMATIC HYDROCARBONS (PAH)			
Benzo(a)Pyrene TEQ	<0.3	<0.5	-
Total PAH	<0.1	<0.05	-
Naphthalene	<0.1	<0.1	-
Benzo(a)Pyrene	<0.1	<0.05	-
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.2	<0.2	-
Endrin	<0.1	<0.1	-
Methoxychlor	<0.1	<0.1	-
Endosulfan (alpha (I), beta (II) & sulphate)	<0.3	<0.3	-
DDD+DDE+DDT	<0.3	<0.1	-
Chlordane (alpha & gamma)	<0.2	<0.2	-
ORGANOPHOSPHATE PESTICIDES (OPP)			
Chlorpyriphos	<0.2	<0.1	-
POLYCHLORINATED BIPHENYLS (PCB)			
Total PCB	<0.1	<0.1	-

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TABLE D3
SPLIT SAMPLE
(Ref No: 20674/1-AA)

ANALYTE	TP165 0.0-0.1 (m) mg/kg (SGS)	DSS3 mg/kg (ENVIROLAB)	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	3	<4	-
Cadmium	<0.3	<0.4	-
Chromium	55	19	97
Copper	21	8	90
Lead	93	7	172
Mercury	<0.05	<0.1	-
Nickel	7.2	4	57
Zinc	95	8	169
TOTAL RECOVERABLE HYDROCARBONS (TRH)			
F1 (C6-C10 less BTEX)	<25	<25	-
F2 (>C10-C16)	<25	<50	-
F3 (>C16-C34)	<90	<100	-
F4 (>C34-C40)	<120	<100	-
BTEX			
Benzene	<0.1	<0.2	-
Toluene	<0.1	<0.5	-
Ethyl Benzene	<0.1	<1	-
Xylenes	<0.3	<1	-
POLYCYCLIC AROMATIC HYDROCARBONS (PAH)			
Benzo(a)Pyrene TEQ	<0.3	<0.5	-
Total PAH	<0.1	<0.05	-
Naphthalene	<0.1	<0.1	-
Benzo(a)Pyrene	<0.1	<0.05	-
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.2	<0.2	-
Endrin	<0.1	<0.1	-
Methoxychlor	<0.1	<0.1	-
Endosulfan (alpha (I), beta (II) & sulphate)	<0.3	<0.3	-
DDD+DDE+DDT	<0.3	<0.1	-
Chlordane (alpha & gamma)	<0.2	<0.2	-
POLYCHLORINATED BIPHENYLS (PCB)			
Total PCB	<0.1	<0.1	-

GEOTECHNIQUE PTY LTD

TABLE D4
SPLIT SAMPLE
(Ref No: 20674/1-AA)

ANALYTE	TP122 0.0-0.1 (m) mg/kg (SGS)	DSS4 mg/kg (ENVIROLAB)	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	2	<4	-
Cadmium	<0.3	<0.4	-
Chromium	15	37	85
Copper	13	28	73
Lead	10	11	10
Mercury	<0.05	<0.1	-
Nickel	3.3	4	19
Zinc	12	13	8
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.2	<0.2	-
Endrin	<0.1	<0.1	-
Methoxychlor	<0.1	<0.1	-
Endosulfan (alpha (I), beta (II) & sulphate)	<0.3	<0.3	-
DDD+DDE+DDT	<0.3	<0.1	-
Chlordane (alpha & gamma)	<0.2	<0.2	-

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TABLE D5
SPLIT SAMPLE
(Ref No: 20674/1-AA)

ANALYTE	TP120 0.0-0.1 (m) mg/kg (SGS)	DSS5 mg/kg (ENVIROLAB)	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	1	<4	-
Cadmium	<0.3	<0.4	-
Chromium	14	21	40
Copper	7.3	11	40
Lead	7	9	25
Mercury	<0.05	<0.1	-
Nickel	2.4	3	22
Zinc	9	11	20
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.2	<0.2	-
Endrin	<0.1	<0.1	-
Methoxychlor	<0.1	<0.1	-
Endosulfan (alpha (I), beta (II) & sulphate)	<0.3	<0.3	-
DDD+DDE+DDT	<0.3	<0.1	-
Chlordane (alpha & gamma)	<0.2	<0.2	-

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TABLE D6
SPLIT SAMPLE
(Ref No: 20674/1-AA)

ANALYTE	TP137 0.0-0.1 (m) mg/kg (SGS)	DSS6 mg/kg (ENVIROLAB)	RELATIVE PERCENTAGE DIFFERENCES (RPD) %
Arsenic	2	<4	-
Cadmium	<0.3	<0.4	-
Chromium	40	60	40
Copper	12	17	34
Lead	19	21	10
Mercury	<0.05	<0.1	-
Nickel	6.6	9	31
Zinc	15	17	13
ORGANOCHLORINE PESTICIDES (OCP)			
Hexachlorobenzene (HCB)	<0.1	<0.1	-
Heptachlor	<0.1	<0.1	-
Aldrin+Dieldrin	<0.2	<0.2	-
Endrin	<0.1	<0.1	-
Methoxychlor	<0.1	<0.1	-
Endosulfan (alpha (I), beta (II) & sulphate)	<0.3	<0.3	-
DDD+DDE+DDT	<0.3	<0.1	-
Chlordane (alpha & gamma)	<0.2	<0.2	-

GEOTECHNIQUE PTY LTD

TABLE E
METAL, CATION EXCHANGE CAPACITY (CEC) & pH TEST RESULTS
DISCRETE SAMPLES
(Ref No: 20674/1-AA)

			METAL (mg/kg)										
Sample Location	Depth (m)	Soil Type	ARSENIC	CADMIUM	CHROMIUM (Total)	Hexavalent Chromium, Cr6+	COPPER	LEAD	MERCURY	NICKEL	ZINC	CEC ($cmol_c/kg$)	pH
TP101	0.0-0.1	Clay	4	<0.3	16	-	23	20	<0.05	5.6	23	-	-
TP102	0.0-0.1	Clay	15	<0.3	14	-	51	60	0.07	5.4	58	-	-
TP103	0.0-0.1	Silt	5	<0.3	23	-	28	36	<0.05	4.2	23	-	-
TP104	0.0-0.1	Silt	2	<0.3	20	-	9.8	12	<0.05	5.1	11	5.2	5.6
TP105	0.0-0.15	Clay	1	<0.3	25	-	12	17	<0.05	9	20	-	-
TP105	0.25-0.35	Clay	1	<0.3	24	-	13	7	<0.05	8.5	13	5.7	6.2
TP106	0.05-0.2	Clay	1	<0.3	20	-	13	7	<0.05	6.8	12	-	-
TP106	0.25-0.35	Clay	<1	<0.3	46	-	9.6	6	<0.05	4.6	7	3.7	5.9
TP107	0.0-0.15	Clay	5	<0.3	48	-	14	28	<0.05	35	19	-	-
TP108	0.0-0.15	Clay	2	<0.3	24	-	15	25	0.09	24	61	-	-
TP108	0.25-0.35	Clay	1	<0.3	22	-	14	11	<0.05	7.4	30	10	6.6
TP109	0.0-0.15	Clay	3	<0.3	30	-	14	24	<0.05	5.4	40	6.2	5.5
TP110	0.0-0.1	Clay	6	<0.3	37	-	17	40	<0.05	9.6	18	-	-
TP111	0.0-0.1	Clay	5	<0.3	31	-	13	32	<0.05	7.5	12	2.6	5.6
TP111	0.15-0.25	Clay	2	<0.3	77	-	15	14	<0.05	9.4	13	3.9	6
TP112	0.0-0.15	Clay	4	<0.3	13	-	9.4	21	<0.05	3	9	-	-
TP113	0.0-0.1	Clay	4	<0.3	29	-	12	55	<0.05	5.3	56	2.6	5.5
TP114	0.0-0.1	Clay	2	<0.3	19	-	8.5	20	<0.05	2.6	13	2	5.2
TP115	0.0-0.1	Silt	<1	<0.3	16	-	8.2	7	<0.05	5.4	5	3	5.6
TP116	0.0-0.1	Silt	1	<0.3	13	-	7.3	7	<0.05	3.9	7	-	-
TP117	0.0-0.15	Clay	2	<0.3	31	-	13	12	<0.05	6.5	18	3.6	5.7
TP118	0.0-0.1	Clay	1	<0.3	17	-	6.1	8	<0.05	2.9	5	-	-
TP119	0.0-0.1	Clay	1	<0.3	10	-	6.4	10	<0.05	2.5	15	-	-
TP120	0.0-0.1	Clay	1	<0.3	14	-	7.3	7	<0.05	2.4	9	2.1	5.1
TP121	0.0-0.1	Clay	1	<0.3	22	-	16	10	<0.05	4.3	15	-	-
TP122	0.0-0.1	Clay	2	<0.3	15	-	13	10	<0.05	3.3	12	-	-
TP123	0.0-0.1	Clay	2	<0.3	31	-	14	11	<0.05	3.2	12	1.3	4.5
TP123	0.15-0.25	Clay	2	<0.3	55	-	13	11	<0.05	3.5	13	0.81	4.3
TP124	0.0-0.1	Clay	<1	<0.3	11	-	5.7	11	<0.05	1.8	6	-	-
TP124	0.15-0.25	Clay	<1	<0.3	20	-	6	7	<0.05	2.1	5	2.3	5.3
TP125	0.0-0.1	Clay	2	<0.3	14	-	7.6	9	<0.05	2.5	8	-	-
TP126	0.0-0.1	Clay	<1	<0.3	33	-	6.2	7	<0.05	2.9	7	-	-
TP127	0.0-0.1	Silt	2	<0.3	17	-	8	11	<0.05	5.6	12	3.4	5.7
TP128	0.0-0.1	Clay	2	<0.3	52	-	11	12	<0.05	6.1	14	-	-
TP129	0.0-0.1	Clay	1	<0.3	41	-	11	9	<0.05	5.6	14	-	-
TP130	0.0-0.15	Clay	2	<0.3	28	-	28	9	<0.05	4.1	30	6.4	5.5
TP131	0.0-0.1	Clay	2	<0.3	59	-	18	14	<0.05	4	16	-	-
TP131	0.15-0.25	Clay	1	<0.3	27	-	15	10	<0.05	3.2	14	1.8	5.1
TP132	0.0-0.1	Clay	2	<0.3	17	-	12	12	<0.05	4	11	-	-
TP133	0.0-0.1	Clay	1	<0.3	11	-	6.4	9	<0.05	2.9	6	3.9	5.4
TP134	0.0-0.15	Clay	2	<0.3	26	-	8.7	10	<0.05	7.4	8	-	-
TP135	0.0-0.15	Clay	2	<0.3	25	-	11	13	<0.05	7.4	10	-	-
TP136	0.0-0.1	Clay	2	<0.3	13	-	8.8	11	<0.05	4.3	11	-	-
TP137	0.0-0.1	Clay	2	<0.3	40	-	12	19	<0.05	6.6	15	-	-
TP138	0.0-0.1	Silt	3	<0.3	36	-	20	88	0.06	5.5	100	-	-
TP139	0.0-0.1	Silt	3	<0.3	48	-	20	21	0.06	13	35	8.2	6.1
TP140	0.0-0.1	Silt	5	<0.3	43	-	26	15	<0.05	17	44	-	-
TP141	0.0-0.15	Clay	3	<0.3	43	-	21	14	<0.05	6.6	24	7.8	6.2
TP142	0.0-0.15	Clay	3	<0.3	25	-	22	12	<0.05	12	31	-	-
TP143	0.0-0.15	Clay	2	<0.3	27	-	17	8	<0.05	7.9	18	10	7.4
TP144	0.0-0.15	Clay	2	<0.3	96	-	14	8	<0.05	9.9	17	-	-
TP145	0.0-0.15	Clay	3	<0.3	**130**	<0.5	21	10	<0.05	17	39	6.4	5.6
TP146	0.0-0.15	Clay	2	<0.3	50	-	9	9	<0.05	4.5	11	-	-
TP147	0.0-0.15	Clay	2	<0.3	56	-	15	10	<0.05	5.5	13	-	-
TP148	0.0-0.15	Clay	5	<0.3	68	-	22	13	<0.05	19	28	7.6	6
TP148	0.55-0.65	Clay	15	<0.3	64	-	30	2	0.07	64	50	27	6.9
TP149	0.0-0.15	Clay	2	<0.3	23	-	40	7	<0.05	8.6	37	20	7
TP150	0.0-0.1	Clay	8	<0.3	**170**	<0.5	32	33	<0.05	21	26	4.5	5.3
TP150	0.15-0.25	Clay	5	<0.3	**130**	<0.5	24	25	<0.05	19	19	5.7	5.9

GEOTECHNIQUE PTY LTD

TABLE E
METAL, CATION EXCHANGE CAPACITY (CEC) & pH TEST RESULTS
DISCRETE SAMPLES
(Ref No: 20674/1-AA)

Sample Location	Depth (m)	Soil Type	METAL (mg/kg) ARSENIC	CADMIUM	CHROMIUM (Total)	Hexavalent Chromium, Cr6+	COPPER	LEAD	MERCURY	NICKEL	ZINC	CEC ($cmol_c/kg$)	pH
TP151	0.0-0.3	Clay	11	0.7	31	-	**510**	**430**	0.05	26	**2000**	41	7.3
TP151	0.5-0.8	Clay	28	0.6	35	-	73	220	0.1	13	**930**	13	7.5
TP151	0.85-0.95	Clay	1	<0.3	52	-	14	6	<0.05	7.5	14	12	6.5
TP152	0.0-0.3	Clay	10	<0.3	53	-	23	35	<0.05	7.2	110	12	7.6
TP152	0.5-0.8	Clay	6	0.4	29	-	29	45	0.07	10	160	14	6.7
TP153	0.0-0.15	Clay	3	<0.3	65	-	20	12	<0.05	8.5	22	6.6	6.5
TP153	0.5-0.8	Clay	3	<0.3	23	-	19	12	<0.05	8	17	-	-
TP153	1.0-1.3	Clay	6	<0.3	**160**	**0.8**	13	15	<0.05	5.3	11	6.4	6.7
TP153	1.55-1.65	Clay	2	<0.3	28	-	11	6	<0.05	6.3	10	-	-
TP154	0.0-0.15	Silt	7	<0.3	58	-	35	28	0.11	22	48	15	6.8
TP154	0.55-0.65	Clay	3	<0.3	32	-	17	18	<0.05	9.6	14	7.2	7
TP155	0.0-0.15	Clay	6	<0.3	8.9	-	9.6	5	<0.05	4.5	22	6.2	6.3
TP155	0.2-0.5	Clay	26	<0.3	8.1	-	31	8	<0.05	9.1	31	14	7.6
TP156	0.0-0.15	Clay	3	<0.3	32	-	16	15	<0.05	12	22	-	-
TP157	0.0-0.15	Clay	15	<0.3	29	-	32	60	0.39	10	110	-	-
TP158	0.0-0.15	Clay	2	<0.3	15	-	7.8	13	<0.05	4.4	10	-	-
TP159	0.0-0.15	Clay	4	<0.3	19	-	14	21	<0.05	6.6	18	-	-
TP160	0.0-0.15	Clay	4	<0.3	52	-	18	12	<0.05	10	16	-	-
TP161	0.0-0.15	Clay	6	<0.3	14	-	16	33	<0.05	3.9	10	-	-
TP162	0.0-0.15	Clay	2	<0.3	55	-	17	22	<0.05	8.6	34	-	-
TP163	0.0-0.15	Clay	2	<0.3	97	-	11	11	<0.05	8.1	9	-	-
TP164	0.0-0.1	Clay	3	<0.3	43	-	21	15	<0.05	13	21	-	-
TP165	0.0-0.1	Silt	3	<0.3	55	-	21	93	<0.05	7.2	95	8.1	6.3
Limit of Reporting (LOR)			1	0.3	0.5	0.5	0.5	1	0.05	0.5	2	0.02	0.1
NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)													
Health-based Investigation Levels (HIL) [a] A - Residential A			100	20	100 [c]	100 [c]	6000	300	10 [d]	400	7400		
Ecological Investigation Levels (EIL) [b]- Urban residential			100 [e]	-	190[f]	190[f]	170	1200 [g]	-	110	420		

Notes:
a: Residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.
b: EIL of aged chromium (III), copper, nickel & zinc were derived from calculation spreadsheet developed by CSIRO for NEPC; Old Suburb with Low Traffic; the average CEC=8.08 cmolc/kg & pH=6.09; the assumed clay content=1 % were selected for derivation of EIL; a conservative approach.
c: Chromium (VI)
d: Methyl Mercury
e: Generic EIL for aged arsenic
f: Chromium (III)
g: Generic added contaminant limit for aged lead + ambient background concentration; Old Suburb with Low Traffic.

GEOTECHNIQUE PTY LTD

TABLE F
TOTAL RECOVERABLE HYDROCARBONS (TRH) AND BTEX TEST RESULTS
DISCRETE SAMPLES
(Ref No: 20674/1-AA)

												NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)												
			TRH (mg/kg)					BTEX (mg/kg)				Health Screening Levels (HSL) A Low density residential						Ecological Screening Levels for fine-grained soil Urban residential							
Sample Location	Depth (m)	Soil type	F1	F2*	F2**	F3	F4	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	F1	F2*	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	F1	F2**	F3	F4	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES
TP104	0.0-0.1	Silt	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	40	230	0.6	390	NL	95	180	120	1300	5600	65	105	125	45
TP107	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP113	0.0-0.1	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP130	0.0-0.15	Clay	<25	<25	<25	110	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP141	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP142	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP143	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP148	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP148	0.55-0.65	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP150	0.0-0.1	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP150	0.15-0.25	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP151	0.0-0.3	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP151	0.5-0.8	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP151	0.85-0.95	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP152	0.0-0.3	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP152	0.5-0.8	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP153	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP153	1.0-1.3	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP154	0.0-0.15	Silt	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	40	230	0.6	390	NL	95	180	120	1300	5600	65	105	125	45
TP154	0.55-0.65	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP155	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP155	0.2-0.5	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP157	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP158	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP159	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP160	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP161	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP162	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP163	0.0-0.15	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP164	0.0-0.1	Clay	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	50	280	0.7	480	NL	110	180	120	1300	5600	65	105	125	45
TP165	0.0-0.1	Silt	<25	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3	40	230	0.6	390	NL	95	180	120	1300	5600	65	105	125	45
Limit of Reporting (LOR)			25	25	25	90	120	0.1	0.1	0.1	0.3														

Notes:
F1: C6-C10 less BTEX
F2*: >C10-C16 less Naphthalene
F2**: >C10-C16
F3: >C16-C34
F4: >C34-C40
NL: Not Limiting

GEOTECHNIQUE PTY LTD

TABLE G
POLYCYCLIC AROMATIC HYDROCARBONS (PAH) TEST RESULTS
DISCRETE SAMPLES
(Ref No: 20674/1-AA)

			PAH (mg/kg)				NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)			
							Health-based Investigation Levels (HIL) A - Residential A		Generic Ecological Investigation Level (EIL) - Urban residential	Ecological Screening Level (ESL) - Urban residential
Sample Location	Depth (m)	Soil type	BaP TEQ	TOTAL PAHs	NAPHTHALENE	BENZO(a)PYRENE (BaP)	BaP TEQ	TOTAL PAHs	NAPHTHALENE	BENZO(a)PYRENE (BaP)
TP104	0.0-0.1	Silt	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP107	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP113	0.0-0.1	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP130	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP141	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP142	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP143	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP148	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP148	0.55-0.65	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP150	0.0-0.1	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP150	0.15-0.25	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP151	0.0-0.3	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP151	0.5-0.8	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP151	0.85-0.95	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP152	0.0-0.3	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP152	0.5-0.8	Clay	0.5	2.6	<0.1	0.3	3	300	170	0.7
TP153	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP153	1.0-1.3	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP154	0.0-0.15	Silt	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP154	0.55-0.65	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP155	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP155	0.2-0.5	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP157	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP158	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP159	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP160	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP161	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP162	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP163	0.0-0.15	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP164	0.0-0.1	Clay	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
TP165	0.0-0.1	Silt	<0.3	<0.1	<0.1	<0.1	3	300	170	0.7
Limit of Reporting (LOR)			0.3	0.1	0.1	0.1				

Notes: a: Residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.

NL: Not Limiting

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TABLE H

ORGANOCHLORINE PESTICIDES (OCP), ORGANOPHOSPHATE PESTICIDES (OPP), POLYCHLORINATED BIPHENYLS (PCB) & PHENOLS TEST RESULTS

DISCRETE SAMPLES

(Ref No: 20674/1-AA)

		OCP (mg/kg)										(mg/kg)	(mg/kg)	(mg/kg)
Sample Location	Depth (m)	HEXACHLOROBENZENE (HCB)	HEPTACHLOR	ALDRIN+DIELDRIN	ENDRIN	METHOXYCHLOR	MIREX	ENDOSULFAN (alpha, beta & sulphate)	DDD+DDE+DDT	DDT	CHLORDANE (alpha & gamma)	Chlorpyrifos (Chlorpyrifos Ethyl)	PCB	Phenols
TP101	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	<0.1	-
TP102	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP103	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP104	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP105	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP105	0.25-0.35	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP106	0.05-0.2	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP106	0.25-0.35	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP107	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	<0.1	<0.5
TP108	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP108	0.25-0.35	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP109	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP110	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP111	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP111	0.15-0.25	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP112	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP113	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP114	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP115	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP116	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP117	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP118	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP119	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP120	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP121	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP122	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP123	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP123	0.15-0.25	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP124	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP124	0.15-0.25	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP125	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP126	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP127	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP128	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP129	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP130	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP131	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP131	0.15-0.25	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP132	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP133	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP134	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP135	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP136	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP137	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP138	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP139	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP140	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP141	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP142	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP143	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	<0.5
TP144	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP145	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP146	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP147	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP148	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP148	0.55-0.65	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP149	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP150	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	<0.1	-
TP150	0.15-0.25	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	<0.1	-
TP151	0.0-0.3	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP151	0.5-0.8	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP151	0.85-0.95	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP152	0.0-0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP152	0.5-0.8	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP153	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP153	0.5-0.8	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	-	-
TP153	1.0-1.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-

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TABLE H

ORGANOCHLORINE PESTICIDES (OCP), ORGANOPHOSPHATE PESTICIDES (OPP), POLYCHLORINATED BIPHENYLS (PCB), CYANIDES & PHENOLS TEST RESULTS
DISCRETE SAMPLES
(Ref No: 20674/1-AA)

Sample Location	Depth (m)	OCP (mg/kg)										(mg/kg)	(mg/kg)	(mg/kg)
		HEXACHLOROBENZENE (HCB)	HEPTACHLOR	ALDRIN+DIELDRIN	ENDRIN	METHOXYCHLOR	MIREX	ENDOSULFAN (alpha, beta & sulphate)	DDD+DDE+DDT	DDT	CHLORDANE (alpha & gamma)	Chlorpyrifos (Chlorpyrifos Ethyl)	PCB	Phenols
TP153	1.55-1.65	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP154	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP154	0.55-0.65	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP155	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP155	0.2-0.5	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP156	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	-	-
TP157	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP158	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP159	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	<0.5
TP160	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	<0.5
TP161	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP162	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	<0.1	-
TP163	0.0-0.15	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP164	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	<0.2	<0.1	-
TP165	0.0-0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.3	<0.3	<0.1	<0.2	-	<0.1	-
Limit of Reporting (LOR)		0.1	0.1	0.2	0.1	0.1	0.1	0.3	0.3	0.1	0.2	0.2	<0.1	0.5
NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)														
Health-based Investigation Levels (HIL) A [a] - Residential A		10	6	6	10	300	10	270	240		50	160	1	3000
Ecological Investigation Levels (EIL) - Urban residential										180 [b]				

Notes: a: Residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.

b: Generic EIL for DDT

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TABLE I
ASBESTOS TEST RESULTS
DISCRETE SAMPLES
(Ref No: 20674/1-AA)

Sample Location	Depth (m)	ASBESTOS (% w/w)		
Soil Sample		Bonded ACM (>7mm)	AF	FA
TP101	0.0-0.1	<0.01	<0.001	<0.001
TP102	0.0-0.1	<0.01	<0.001	<0.001
TP103	0.0-0.1	<0.01	<0.001	<0.001
TP113	0.0-0.1	<0.01	<0.001	<0.001
TP130	0.0-0.15	<0.01	<0.001	<0.001
TP141	0.0-0.15	<0.01	<0.001	<0.001
TP142	0.0-0.15	<0.01	<0.001	<0.001
TP143	0.0-0.15	<0.01	<0.001	<0.001
TP148	0.0-0.15	<0.01	<0.001	<0.001
TP150	0.0-0.1	<0.01	<0.001	<0.001
TP151	0.0-0.3	<0.01	<0.001	<0.001
TP151	0.5-0.8	<0.01	<0.001	<0.001
TP152	0.0-0.3	0.002	<0.001	<0.001
TP152	0.5-0.8	<0.01	<0.001	<0.001
TP153	0.0-0.15	<0.01	<0.001	<0.001
TP153	0.5-0.8	<0.01	<0.001	<0.001
TP153	1.0-1.3	<0.01	<0.001	<0.001
BH154	0.0-0.15	<0.01	<0.001	<0.001
TP155	0.0-0.15	<0.01	<0.001	<0.001
TP155	0.2-0.5	<0.01	<0.001	<0.001
TP157	0.0-0.15	**0.036**	<0.001	<0.001
TP162	0.0-0.15	<0.01	<0.001	<0.001
TP165	0.0-0.1	<0.01	<0.001	<0.001
Limits of Reporting (LOR)		0.01	0.001	0.001
NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)				
Health Screening Levels [a] - Residential A		0.01	0.001	0.001
Fibro-cement Piece				
FCP150	Surface	ACM		
FCP151	0.0-0.3	ACM		
FCP152	0.0-0.3	ACM		
FCP152	0.5-0.8	ACM		
FCP157	0.0-0.15	ACM		

Notes:
ACM: Asbestos Containing Material
AF: Asbestos Fines
FA: Fibrous Asbestos
a: Residential with garden / accessible soil (home grown produce <10% fruit and vegetable intake (no poultry)), also includes childcare centres, preschools and primary schools.

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TABLE J
PER- AND POLY- FLUOROALKYL SUBSTANCE (PFAS)
(Ref No: 20674/1-AA)

Location	Depth (m)	PFAS (µg/kg) PFOS	PFHxS	PFOS+PFHxS	PFOA
TP107	0.0-0.15	<0.1 <0.1	<0.1	<0.1 <0.1	<0.1
TP159	0.0-0.15	<0.1 <0.1	<0.1	<0.1 <0.1	<0.1
TP160	0.0-0.15	<0.1 <0.1	<0.1	<0.1 <0.1	<0.1
PFAS National Environmental Management Plan 2020					
Human Health Investigation Values - Residential with garden/accessible soil (HIL A)				0.01 mg/kg	0.1 mg/kg
				10 µg/kg	100 µg/kg
Ecological Guideline Values					
	Ecological Direct Exposure	1 mg/kg			10 mg/kg
		1,000 µg/kg			10,000 µg/kg
	Ecological Indirect Exposure	0.01 mg/kg			
		10 µg/kg			
Biota guideline values					
	Ecological Direct Exposure for Mammalian Diet			4.6 µg/kg	
	Ecological Direct Exposure for Avian Diet			8.2 µg/kg	
	Ecological Exposure Protective of Birds			0.2 µg/g	
				200 µg/kg	

APPENDIX A

MASTER PLAN

APPENDIX B

GROUNDWATER BORE RECORDS OF

DEPARTMENT OF PRIMARY INDUSTRIES, OFFICE OF WATER

Real-time water data

realtimedata.waternsw.com.au/water.stm

Free Hotmail | Suggested Sites | Web Slice Gallery | Imported From IE | cdn4.atwestfield.co... | Sydney Water | www.renaulteurodri...

WaterNSW

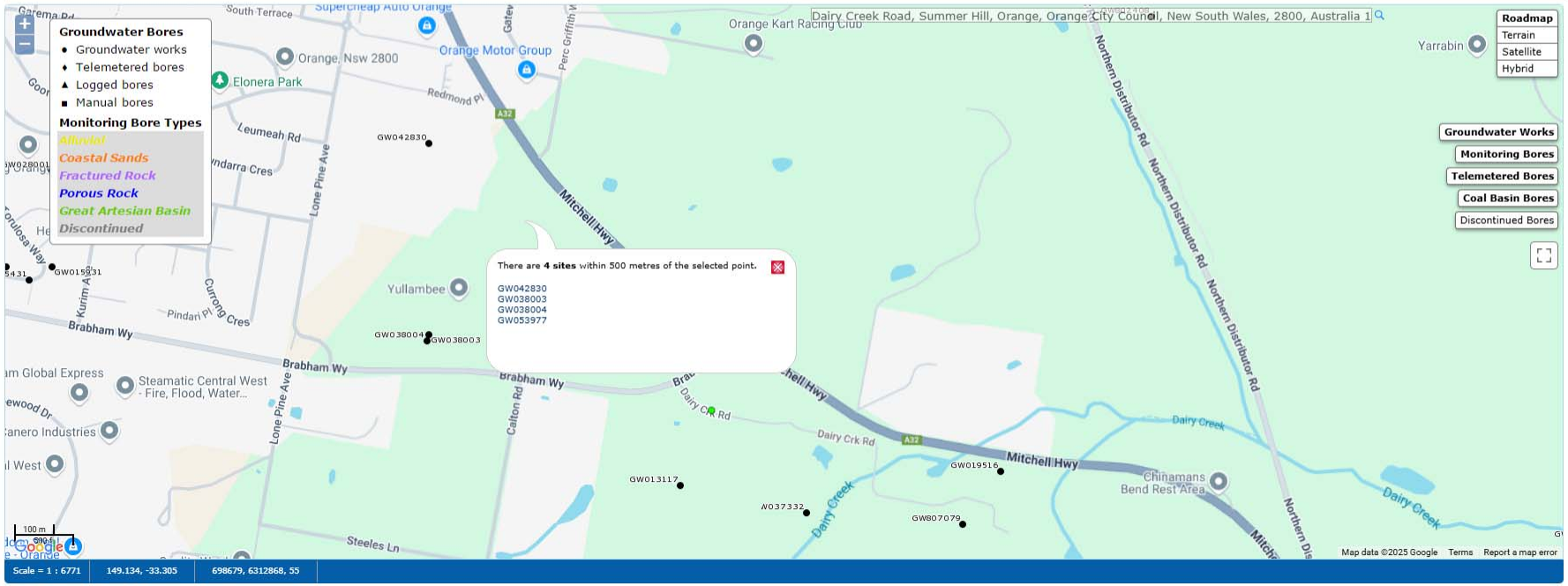
All Groundwater Site Details

ALL GROUNDWATER MAP

bookmark this page

All data times are Eastern Standard Time

Map | Info



contact WaterNSW

Type here to search

Address

18°C Mostly cloudy

ENG

12:08 PM
20/05/2025

WaterNSW
Work Summary

GW053977

Licence: 80BL135239
Licence Status: CONVERTED

Authorised Purpose(s): DOMESTIC,STOCK
Intended Purpose(s): IRRIGATION

Work Type: Bore
Work Status:
Construct.Method: Rotary Air
Owner Type: Private

Commenced Date:
Completion Date: 01/12/1981
Final Depth: 19.20 m
Drilled Depth: 19.20 m

Contractor Name: (None)
Driller:
Assistant Driller:

Property: N/A NSW
GWMA:
GW Zone:
Standing Water Level (m):
Salinity Description:
Yield (L/s): 1.819

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	BATHURST	ORANGE	L2 DP502526 (17)
Licensed:	BATHURST	ORANGE	Whole Lot

Region: 80 - Macquarie-Western
River Basin: 421 - MACQUARIE RIVER
Area/District:
CMA Map: 8731-3N
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: (Unknown)
Northing: 6312715.000
Easting: 698025.000
Latitude: 33°18'23.4"S
Longitude: 149°07'37.2"E

GS Map: -
MGA Zone: 55
Coordinate Source: GD.,ACC.MAP

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Welded Steel	-0.30	19.20	140			Seated on Bottom
1	1	Opening	Slots	11.30	19.20	140		1	

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
7.90	8.20	0.30	Fractured	7.30		0.10			
13.10	13.40	0.30	Fractured	7.30		0.46			
15.50	15.80	0.30	Fractured	7.30		1.26			

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Topsoil	Topsoil	
0.30	3.66	3.36	Clay Coloured	Clay	
3.66	7.32	3.66	Shale Decomposed	Shale	
7.32	19.20	11.88	Shale Water Supply	Shale	

***** End of GW053977 *****

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

WaterNSW
Work Summary

GW042830

Licence: 80WA708000 **Licence Status:** CURRENT

Authorised Purpose(s): DOMESTIC,STOCK
Intended Purpose(s): IRRIGATION

Work Type: Bore
Work Status:
Construct.Method: Rotary
Owner Type: Private

Commenced Date: **Final Depth:** 41.20 m
Completion Date: 01/12/1976 **Drilled Depth:** 41.20 m

Contractor Name: (None)
Driller:
Assistant Driller:

Property: N/A NSW **Standing Water Level (m):**
GWMA: **Salinity Description:**
GW Zone: **Yield (L/s):** 10.111

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	BATHURST	ORANGE	25
Licensed:	BATHURST	ORANGE	Whole Lot

Region: 80 - Macquarie-Western **CMA Map:** 8731-3N
River Basin: 421 - MACQUARIE RIVER **Grid Zone:** **Scale:**
Area/District:

Elevation: 0.00 m (A.H.D.) **Northing:** 6313036.000 **Latitude:** 33°18'13.4"S
Elevation Source: (Unknown) **Easting:** 697411.000 **Longitude:** 149°07'13.2"E

GS Map: - **MGA Zone:** 55 **Coordinate Source:** GD.,ACC.MAP

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Welded Steel	-0.30	34.80	165			
1	1	Opening	Slots - Vertical	22.30	32.90	165		1	A: 2.00mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
12.20	16.80	4.60	(Unknown)	1.50					
22.20	25.90	3.70	(Unknown)	1.50		1.26			
29.50	32.90	3.40	(Unknown)	1.50		8.85			

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Topsoil	Topsoil	
0.30	5.33	5.03	Clay	Clay	
5.33	7.62	2.29	Clay Sandy	Clay	
7.62	8.84	1.22	Loam Sandy	Loam	

8.84	31.70	22.86	Schist Hard Water Supply	Schist	
31.70	32.92	1.22	Basalt Decomposed Water Supply	Basalt	
32.92	34.44	1.52	Basalt Hard Fractured	Basalt	
34.44	41.15	6.71	Basalt Hard	Basalt	

***** End of GW042830 *****

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

WaterNSW
Work Summary

GW038003

Licence: 80WA707874
Licence Status: CURRENT

Authorised Purpose(s): DOMESTIC
Intended Purpose(s): DOMESTIC

Work Type: Well
Work Status:
Construct.Method:
Owner Type: Private

Commenced Date:
Completion Date:
Final Depth: 10.60 m
Drilled Depth:

Contractor Name: (None)
Driller:
Assistant Driller:

Property: 84 Diary Creek Road NSW
GWMA:
GW Zone:
Standing Water Level (m):
Salinity Description: Good
Yield (L/s):

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	BATHURST	ORANGE	26
Licensed:	BATHURST	ORANGE	Whole Lot 26//1087281

Region: 80 - Macquarie-Western
River Basin: 421 - MACQUARIE RIVER
Area/District:
CMA Map: 8731-3N
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: (Unknown)
Northing: 6312605.000
Easting: 697402.000
Latitude: 33°18'27.4"S
Longitude: 149°07'13.2"E

GS Map: -
MGA Zone: 55
Coordinate Source: GD.,ACC.MAP

***** End of GW038003 *****

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

WaterNSW
Work Summary

GW038004

Licence: 80BL238681
Licence Status: CONVERTED

Authorised Purpose(s): DOMESTIC,STOCK
Intended Purpose(s): IRRIGATION

Work Type: Bore open thru rock
Work Status:
Construct.Method: Rotary Air
Owner Type: Private

Commenced Date:
Completion Date: 01/01/1975
Final Depth: 38.10 m
Drilled Depth: 38.10 m

Contractor Name: (None)
Driller:
Assistant Driller:

Property: N/A Dairy Creek Rd ORANGE 2800 NSW
GWMA: 801
GW Zone:
Standing Water Level (m):
Salinity Description: Good
Yield (L/s): 2.526

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	BATHURST	ORANGE	PT LOT 26 DP750401
Licensed:	BATHURST	ORANGE	Whole Lot PT26//750401

Region: 80 - Macquarie-Western
River Basin: 421 - MACQUARIE RIVER
Area/District:
CMA Map:
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: (Unknown)
Northing: 6312592.000
Easting: 697397.000
Latitude: 33°18'27.8"S
Longitude: 149°07'13.1"E

GS Map: -
MGA Zone: 55
Coordinate Source: GD.,PR. MAP

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Welded Steel	-0.30	13.10	152			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
15.20	21.20	6.00	Fractured	3.90		2.53			

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Topsoil	Topsoil	
0.30	2.13	1.83	Clay Yellow	Clay	
2.13	5.49	3.36	Clay	Clay	
5.49	13.41	7.92	Basalt Decomposed	Basalt	
13.41	38.10	24.69	Basalt Water Supply	Basalt	

***** End of GW038004 *****

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

APPENDIX C

ENGINEERING LOGS

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP101
Date : 15/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 902.987
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP			CONE 12	0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets and gravel				Inclusion of plastic
	G			12			CI	Silty CLAY, medium plasticity, orange to brown, with gravel, trace sand	M<PL	Vst-H		
				9								
				6								
				6	0.5							
			U50 DB	5								
				5								
				6								
				6	1							
				7								
			DS	8								
				8								
				14								
				23	1.5			@1.5m, grey mottled orange				
												Resistance to excavator
					2							
					2.5			Test Pit TP101 terminated at 2.5m Target depth reached				
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP102
Date : 15/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 901.837
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			TOPSOIL: Silty Clay, low plasticity, brown, trace root fibres and gravel				Inclusion of plastic
	G				0.5		CL-CI	Silty CLAY, low to medium plasticity, orange to brown, trace gravel and sand	M<PL	St		
								Test Pit TP102 terminated at 0.6m Target depth reached				

1
1.5
2
2.5
3
3.5
4
4.5

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP103
Date : 15/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 901.844
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			TOPSOIL: Clayey Silt, low plasticity, brown, trace root fibres and gravel				Inclusion of tarp
	G				0.5		CL-CI	Silty CLAY, low to medium plasticity, orange to brown, trace gravel and sand	M<PL	St		
								Test Pit TP103 terminated at 0.6m Target depth reached				

1
1.5
2
2.5
3
3.5
4
4.5

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP105
Date : 15/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 902.749
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP			CONE 7	0			TOPSOIL: Silty Clay, low plasticity, brown, trace gravel and rootlets				
				13								
	G			20			CI	Silty CLAY, medium plasticity, orange, trace sand	M<PL	St-Vst		
				14								
				11	0.5							
				9								
				10								
				9								
				12								
				13								
			DS	18	1			@1.0m, mottled black, with gravel				
				26				@1.2m, grey mottled orange and black				
					1.5							
					2							
							CH	Silty CLAY, high plasticity, grey mottled orange and yellow, trace organics				
					2.5			Test Pit TP105 terminated at 2.5m Target depth reached				
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP106
Date : 15/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 901.761
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			MULCH TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
	G				0.5		CI	Silty CLAY, medium plasticity, grey mottled orange, trace sand	M>PL	St		
								Test Pit TP106 terminated at 0.7m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP107
Date : 15/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 899.944
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
								@0.2m, no trace rootlets				
	G				0.5		CI-CH	Silty CLAY, medium to high plasticity, orange to brown, with gravel, trace sand	M<PL	St		
					1			Test Pit TP107 terminated at 1.0m Target depth reached				
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP108
Date : 15/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 899.598
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP			CONE 10	0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
				8								
	G			15			CI	Silty CLAY, medium plasticity, orange to brown, trace rootlets and sand	M<PL	Vst-H		
				11								
				12	0.5							
				11								
				10								
				13								
				12								
				8	1							
			DS	6								
				6								
				8								
				8								
				10	1.5			@1.5m, grey mottled orange				
					2			@2.3m, high plasticity				
					2.5			Test Pit TP108 terminated at 2.5m Target depth reached				
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP109
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 900.804
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
			U50 DB		0.5		CI	Silty CLAY, medium plasticity, orange to brown, with fine to coarse grained gravel, trace sand	M<PL	St-Vst		
			DS		1.5			@1.3m, grey mottled orange and black, with gravel				
					2.5			Test Pit TP109 terminated at 2.5m Target depth reached				

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP110
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 901.338
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, trace sand				
								Test Pit TP110 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP111
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 900.102
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP G				0 0.5		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets Silty CLAY, medium to high plasticity, orange to brown, trace sand	M<PL	St		
					1 1.5 2 2.5 3 3.5 4 4.5			Test Pit TP111 terminated at 0.6m Target depth reached				

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP112
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 898.990
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
	G				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
DRY					0.5		CI-CH	Silty CLAY, medium to high plasticity, orange to brown, trace sand	M<PL	St		
								Test Pit TP112 terminated at 0.7m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP113
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 898.660
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			FILL: Silty Clay, low plasticity, brown, trace rootlets, gravel	M<PL			
								Test Pit TP113 terminated at 0.1m due to services				
					0.5							
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP114
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 897.903
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, trace sand				
								Test Pit TP114 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP117
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 897.587
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
								Test Pit TP117 terminated at 0.2m due to services				
					0.5							
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP118
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 896.652
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, trace sand				
								Test Pit TP118 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP119
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 897.500
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP G				0 0.5		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets Silty CLAY, medium to high plasticity, orange to brown, trace sand	M<PL	St		
					1 1.5 2 2.5 3 3.5 4 4.5			Test Pit TP119 terminated at 0.6m Target depth reached				

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP120
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 895.853
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP G				0 0.5		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets Silty CLAY, medium to high plasticity, orange to brown, trace sand	M<PL	St		
					1 1.5 2 2.5 3 3.5 4 4.5			Test Pit TP120 terminated at 0.6m Target depth reached				

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP121
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 896.865
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, trace sand				
								Test Pit TP121 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP122
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 899.176
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, trace sand				
								Test Pit TP122 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP123
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 896.072
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP G				0 0.5		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets Silty CLAY, medium to high plasticity, orange to brown, trace sand	M<PL	St		
					1 1.5 2 2.5 3 3.5 4 4.5			Test Pit TP123 terminated at 0.6m Target depth reached				

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP124
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 896.354
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP G				0 0.5		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets Silty CLAY, medium to high plasticity, orange to brown, trace sand	M<PL	St		
					1 1.5 2 2.5 3 3.5 4 4.5			Test Pit TP124 terminated at 0.6m Target depth reached				

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP125
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 895.193
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, trace sand				
								Test Pit TP125 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP126
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 894.837
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, trace sand				
								Test Pit TP126 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP127
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 893.949
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP		DS DB DS		0 0.5 1 1.5 2 2.5 3 3.5 4 4.5		CL	TOPSOIL: Clayey Silt, low plasticity, brown, trace rootlets Silty CLAY, low plasticity, brown to orange, trace gravel and sand @1.5m, mottled black, trace gravel Test Pit TP127 terminated at 2.5m Target depth reached	M<PL	St-Vst		

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP128
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 894.399
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, trace sand				
								Test Pit TP128 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP129
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 894.951
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, trace sand				
								Test Pit TP129 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP130
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 896.455
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			FILL: Silty Clay, low plasticity, brown, trace rootlets, with gravel and cobbles, trace boulders	M<PL			
	G				0.5		CI-CH	Silty CLAY, medium to high plasticity, brown to orange, trace sand	M<PL	St		
					1			Test Pit TP130 terminated at 1.0m Target depth reached				
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP131
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 894.867
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP G				0 0.5		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets Silty CLAY, medium to high plasticity, orange to brown, trace sand	M<PL	St		
					1 1.5 2 2.5 3 3.5 4 4.5			Test Pit TP131 terminated at 0.6m Target depth reached				

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP132
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 894.439
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, trace sand				
								Test Pit TP132 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP133
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 894.093
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, trace sand				
								Test Pit TP133 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP134
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 894.530
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
								Test Pit TP134 terminated at 0.2m due to services				
					0.5							
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP135
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 893.640
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
								Test Pit TP135 terminated at 0.2m due to services				
					0.5							
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP136
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 892.969
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP			CONE 4 5 4 4 7 7 6 5 3 4 2 3 3 4 4	0 0.5 1 1.5 2 2.5 3 3.5 4 4.5		CI	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets Silty CLAY, medium plasticity, brown to orange	M<PL	St-Vst		
			U_{50}									
			DS					@1.5m, trace gravel				
								Test Pit TP136 terminated at 2.5m Target depth reached				

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP137
Date : 17/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 893.728
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, trace sand				
								Test Pit TP137 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP138
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 893.185
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Clayey Silt, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, brown to orange, trace sand				
								Test Pit TP138 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP139
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 892.440
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Clayey Silt, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, brown to orange, trace sand				
								Test Pit TP139 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP140
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 891.841
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0		CI-CH	TOPSOIL: Clayey Silt, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, brown to orange				
								Test Pit TP140 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP141
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 892.994
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			FILL: Silty Clay, low plasticity, brown, trace gravel and rootlets	M<PL			Inclusion of stake
	G		DS		0.5		CL-CH	Silty CLAY, low to medium plasticity, orange, with gravel, trace sand @0.8m, with boulders	M<PL	St		
			DS		1							
					1.5							
					2			Test Pit TP141 terminated at 1.8m due to refusal on suspected boulder				
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP142
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 892.629
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			FILL: Silty Clay, low plasticity, brown, trace gravel and rootlets	M<PL			
	G		U_{50}		0.5		CH	Silty CLAY, high plasticity, orange, with gravel, trace sand	M<PL	St-Vst		
								@0.8m, with boulders				
			DS		1			@1.0m, mottled black				
					1.5							
					2			Test Pit TP142 terminated at 2.1m due to refusal on suspected boulder				
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP143
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 891.639
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			FILL: Silty Clay, low to medium plasticity, brown, with gravel, trace rootlets	M<PL			Inclusion of boulders
	G				0.5		CI-CH	Silty CLAY, medium to high plasticity, grey mottled orange to black, trace sand	M<PL	St		
					1			Test Pit TP143 terminated at 1.0m Target depth reached				
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP144
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 890.424
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
								Test Pit TP144 terminated at 0.2m due to services				
					0.5							
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
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engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP145
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 891.403
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			TOPSOIL: Silty Clay, low plasticity, orange to brown, with gravel				
					0.5		CI-CH	Silty CLAY, medium to high plasticity, orange to brown, with gravel	M<PL	St		
					1			Test Pit TP145 terminated at 0.8m Target depth reached				
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP146
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 890.177
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G			CONE 3, 5, 7	0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
			DS	10			CI-CH	Silty CLAY, medium to high plasticity, grey mottled orange, with gravel, trace sand	M<PL	Vst-H		
				16			GM	Silty GRAVEL, fine to medium grained, grey mottled orange and black, trace sand	D	D		
			DB	18, 18, 17	0.5		CI-CH	Silty CLAY, high plasticity, grey mottled orange to black, with gravel and sand		H		
					1							
					1.5							
					2			@2.0m, with boulders				
					2.5			Test Pit TP146 terminated at 2.5m Target depth reached				
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP147
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 889.141
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
								Test Pit TP147 terminated at 0.2m due to services				
					0.5							
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP148
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 889.483
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
	GP				0			FILL: Silty Clay, low plasticity, brown, trace rootlets	M<PL			
DRY	G				0.5		CI	Silty CLAY, medium plasticity, orange mottled grey, black and brown, with gravel and boulders, trace boulders	M<PL	St		
								Test Pit TP148 terminated at 0.7m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP149
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 886.394
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
								Test Pit TP149 terminated at 0.2m due to services				
					0.5							
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP150
Date : 15/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 903.485
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			TOPSOIL: Silty Clay, low plasticity, brown, trace root fibres and gravel				
	G				0.5		CL-CI	Silty CLAY, low to medium plasticity, orange to brown, trace gravel and sand	M<PL	St		
								Test Pit TP150 terminated at 0.6m Target depth reached				

1
1.5
2
2.5
3
3.5
4
4.5

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP151
Date : 15/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 903.496
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			STOCKPILE: Silty Clay, low plasticity, brown, trace rootlets and gravel				Inclusion of bricks, tiles, fry, metal, concrete
	GP				0.5			FILL: Silty Clay, low plasticity, brown, trace gravel	M<PL			
	G				1		CI-CH	Silty CLAY, medium to high plasticity, orange to brown, trace sand	M<PL	St		
					1.5			Test Pit TP151 terminated at 1.3m Target depth reached				
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP152
Date : 15/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 903.673
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			STOCKPILE: Silty Clay, low plasticity, brown, trace rootlets and gravel				Inclusion of bricks, tiles, fry, metal, concrete, bitumen
	GP				0.5			FILL: Silty Clay, low plasticity, brown, trace gravel	M<PL			Inclusion of bricks, tiles, fry, metal, concrete, bitumen
	G				1		CI-CH	Silty CLAY, medium to high plasticity, orange to brown, trace sand	M<PL	St		
					1.5			Test Pit TP152 terminated at 1.3m Target depth reached				
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP153
Date : 15/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 903.503
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP			CONE 26	0			FILL: Silty Clay, low to medium plasticity, brown-orange,with fine to coarse grained gravel, trace rootlets and sand	M<PL			Inclusion of paver, metal wire, cobble
	GP			20								
				18								
				17								
				15	0.5							
				20								
				23								
			DB	21								
				18								
				12	1							
	G GP			10								
				6								
				4								
				6								
				4	1.5							
				5			CI-CH	Silty CLAY, medium to high plasticity, brown-orange, with gravel, trace sand	M<PL	St		
								Silty CLAY, medium to high plasticity, grey mottled orange to black, with gravel, trace sand				
					2							
					2.5			Test Pit TP153 terminated at 2.5m Target depth reached				
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP155
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 901.458
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				Inclusion of bitumen
	GP							FILL: Silty Clay, low plasticity, orange to brown, with cobbles	M<PL			
	G				0.5		CI	Silty CLAY, medium plasticity, grey mottled orange, trace rootlets, sand	M<PL	St		
					1			Test Pit TP155 terminated at 1.0m Target depth reached				
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP156
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 900.220
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
	G						CL	Silty CLAY, low plasticity, brown to orange, with fine to coarse grained gravel, trace sand	M<PL	St		
			U_{50}		0.5							
			DS		1			@1.2m, grey mottled orange and black				
			DB		1.5							
					2							
					2.5			Test Pit TP156 terminated @2.5m target depth reached				
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP157
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface :
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			FILL: Silty Clay, low plasticity, brown, trace rootlets, with gravel	M<PL			FCP
								Test Pit TP157 terminated at 0.2m due to services				
					0.5							
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP158
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 899.023
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
							CH	Silty CLAY, high plasticity, orange to brown, trace gravel and sand	M<PL	St		
			DB U_{50}		0.5							
			DS		1			@1.0m, grey mottled orange and black, with gravel				
					1.5							
					2							
					2.5			Test Pit TP158 terminated @2.5m target depth reached				
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP159
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 898.648
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
	GP				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
DRY					0.5		CI-CH	Silty CLAY, medium to high plasticity, orange to brown, with gravel, trace sand	M<PL	St		
								Test Pit TP159 terminated at 0.7m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP160
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 899.196
Excavation dimensions : 1.8 **m long** 0.45 **m wide** **datum :** AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
	GP				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
DRY					0.5		CI-CH	Silty CLAY, medium to high plasticity, orange to brown, with gravel, trace sand	M<PL	St		
								Test Pit TP160 terminated at 0.7m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP161
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 899.769
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
	G				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
DRY					0.5		CI-CH	Silty CLAY, medium to high plasticity, orange to brown	M<PL	St		
								Test Pit TP161 terminated at 0.7m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP162
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 899.885
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			FILL: Silty Clay, low plasticity, brown, trace rootlets, with gravel	M<PL			
								Test Pit TP162 terminated at 0.2m due to services				
					0.5							
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP163
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 895.540
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0			TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets				
								Test Pit TP163 terminated at 0.2m due to services				
					0.5							
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP164
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 893.327
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	G				0		CI-CH	TOPSOIL: Silty Clay, low plasticity, brown, trace rootlets and gravel	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, orange to brown, with gravel				
								Test Pit TP164 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

GEOTECHNIQUE
PTY LTD

engineering log - excavation

Client : Landcom
Project : Proposed Subdivision Development (BPA 16642)
Location : Redmond Place, Orange

Job No : 20674/1
Pit No : TP165
Date : 16/04/2025
Logged/Checked by: KB/YN

Equipment type and model: 5t Excavator
R.L. surface : 893.192
Excavation dimensions : 1.8 **m long** 0.45 **m wide**
datum : AHD

groundwater	env samples	PID reading (ppm)	geo samples	field tests	depth or R.L. in meters	graphic log	classification symbol	MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components.	moisture condition	consistency density index	hand penetrometer kPa	Remarks and additional observations
DRY	GP				0		CI-CH	TOPSOIL: Clayey Silt, low plasticity, brown, trace rootlets	M<PL	St		
					0.5			Silty CLAY, medium to high plasticity, brown to orange				
								Test Pit TP145 terminated at 0.6m Target depth reached				
					1							
					1.5							
					2							
					2.5							
					3							
					3.5							
					4							
					4.5							

APPENDIX D

LABORATORY TEST RESULTS REPORTS/CERTIFICATES

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Anwar Barbhuyia
Client	Geotechnique
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	anwar@geotech.com.au
Project	**20674/1 Orange**
Order Number	**20674/1**
Samples	94

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE281815 R0**
Date Received	22/4/2025
Date Reported	30/4/2025

COMMENTS

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

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Bennet LO
Senior Chemist

Dong LIANG
Metals/Inorganics Team Leader

Kamrul AHSAN
Senior Chemist

Ly Kim HA
Organic Section Head

Shane MCDERMOTT
Laboratory Manager

Teresa NGUYEN
Organic Chemist

VOC's in Soil [AN433] Tested: 24/4/2025

PARAMETER	UOM	LOR	TP104 SOIL 0.0-0.1 15/4/2025 SE281815.004	TP107 SOIL 0.0-0.15 15/4/2025 SE281815.009	TP113 SOIL 0.0-0.1 17/4/2025 SE281815.017	TP130 SOIL 0.0-0.15 17/4/2025 SE281815.036	TP141 SOIL 0.0-0.15 15/4/2025 SE281815.048
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3

PARAMETER	UOM	LOR	TP142 SOIL 0.0-0.15 15/4/2025 SE281815.049	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050	TP148 SOIL 0.0-0.15 16/4/2025 SE281815.055	TP148 SOIL 0.55-0.65 16/4/2025 SE281815.056	TP150 SOIL 0.0-0.1 17/4/2025 SE281815.058
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3

PARAMETER	UOM	LOR	TP150 SOIL 0.15-0.25 17/4/2025 SE281815.059	TP151 SOIL 0.0-0.3 15/4/2025 SE281815.060	TP151 SOIL 0.5-0.8 15/4/2025 SE281815.061	TP151 SOIL 0.85-0.95 15/4/2025 SE281815.062	TP152 SOIL 0.0-0.3 15/4/2025 SE281815.063
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3

PARAMETER	UOM	LOR	TP152 SOIL 0.5-0.8 15/4/2025 SE281815.064	TP153 SOIL 0.0-0.15 15/4/2025 SE281815.065	TP153 SOIL 1.0-1.3 15/4/2025 SE281815.067	TP154 SOIL 0.0-0.15 15/4/2025 SE281815.069	TP154 SOIL 0.55-0.65 15/4/2025 SE281815.070
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3

VOC's in Soil [AN433] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP155 SOIL 0.0-0.15 16/4/2025 SE281815.071	TP155 SOIL 0.2-0.5 16/4/2025 SE281815.072	TP157 SOIL 0.0-0.15 16/4/2025 SE281815.074	TP158 SOIL 0.0-0.15 16/4/2025 SE281815.075	TP159 SOIL 0.0-0.15 16/4/2025 SE281815.076
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3

PARAMETER	UOM	LOR	TP160 SOIL 0.0-0.15 16/4/2025 SE281815.077	TP161 SOIL 0.0-0.15 16/4/2025 SE281815.078	TP162 SOIL 0.0-0.15 16/4/2025 SE281815.079	TP163 SOIL 0.0-0.15 16/4/2025 SE281815.080	TP164 SOIL 0.0-0.1 16/4/2025 SE281815.081
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3

PARAMETER	UOM	LOR	TP165 SOIL 0.0-0.1 16/4/2025 SE281815.082	DDS2 SOIL - 16/4/2025 SE281815.084	DDS4 SOIL - 14/4/2025 SE281815.086	DDS6 SOIL - 17/4/2025 SE281815.088	TS1 SOIL - 15/4/2025 SE281815.092
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[105%]
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[106%]
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[102%]
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	[102%]
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	[106%]
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	-
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	-
Total BTEX*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	-

PARAMETER	UOM	LOR	TS2 SOIL - 16/4/2025 SE281815.093	TS3 SOIL - 17/4/2025 SE281815.094
Benzene	mg/kg	0.1	[78%]	[81%]
Toluene	mg/kg	0.1	[98%]	[80%]
Ethylbenzene	mg/kg	0.1	[106%]	[79%]
m/p-xylene	mg/kg	0.2	[104%]	[82%]
o-xylene	mg/kg	0.1	[105%]	[81%]
Naphthalene (VOC)*	mg/kg	0.1	-	-
Total Xylenes*	mg/kg	0.3	-	-
Total BTEX*	mg/kg	0.3	-	-

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 24/4/2025

PARAMETER	UOM	LOR	TP104 SOIL 0.0-0.1 15/4/2025 SE281815.004	TP107 SOIL 0.0-0.15 15/4/2025 SE281815.009	TP113 SOIL 0.0-0.1 17/4/2025 SE281815.017	TP130 SOIL 0.0-0.15 17/4/2025 SE281815.036	TP141 SOIL 0.0-0.15 15/4/2025 SE281815.048
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP142 SOIL 0.0-0.15 15/4/2025 SE281815.049	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050	TP148 SOIL 0.0-0.15 16/4/2025 SE281815.055	TP148 SOIL 0.55-0.65 16/4/2025 SE281815.056	TP150 SOIL 0.0-0.1 17/4/2025 SE281815.058
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP150 SOIL 0.15-0.25 17/4/2025 SE281815.059	TP151 SOIL 0.0-0.3 15/4/2025 SE281815.060	TP151 SOIL 0.5-0.8 15/4/2025 SE281815.061	TP151 SOIL 0.85-0.95 15/4/2025 SE281815.062	TP152 SOIL 0.0-0.3 15/4/2025 SE281815.063
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP152 SOIL 0.5-0.8 15/4/2025 SE281815.064	TP153 SOIL 0.0-0.15 15/4/2025 SE281815.065	TP153 SOIL 1.0-1.3 15/4/2025 SE281815.067	TP154 SOIL 0.0-0.15 15/4/2025 SE281815.069	TP154 SOIL 0.55-0.65 15/4/2025 SE281815.070
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP155 SOIL 0.0-0.15 16/4/2025 SE281815.071	TP155 SOIL 0.2-0.5 16/4/2025 SE281815.072	TP157 SOIL 0.0-0.15 16/4/2025 SE281815.074	TP158 SOIL 0.0-0.15 16/4/2025 SE281815.075	TP159 SOIL 0.0-0.15 16/4/2025 SE281815.076
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	TP160 SOIL 0.0-0.15 16/4/2025 SE281815.077	TP161 SOIL 0.0-0.15 16/4/2025 SE281815.078	TP162 SOIL 0.0-0.15 16/4/2025 SE281815.079	TP163 SOIL 0.0-0.15 16/4/2025 SE281815.080	TP164 SOIL 0.0-0.1 16/4/2025 SE281815.081
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP165 SOIL 0.0-0.1 16/4/2025 SE281815.082	DDS2 SOIL - 16/4/2025 SE281815.084	DDS4 SOIL - 14/4/2025 SE281815.086	DDS6 SOIL - 17/4/2025 SE281815.088
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C9	mg/kg	20	<20	<20	<20	<20
TRH C6-C10	mg/kg	25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 24/4/2025

PARAMETER	UOM	LOR	TP104 SOIL 0.0-0.1 15/4/2025 SE281815.004	TP107 SOIL 0.0-0.15 15/4/2025 SE281815.009	TP113 SOIL 0.0-0.1 17/4/2025 SE281815.017	TP130 SOIL 0.0-0.15 17/4/2025 SE281815.036	TP141 SOIL 0.0-0.15 15/4/2025 SE281815.048
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	**55**	<45
TRH C29-C36	mg/kg	45	<45	<45	**48**	**75**	**47**
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	**110**	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	**130**	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	TP142 SOIL 0.0-0.15 15/4/2025 SE281815.049	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050	TP148 SOIL 0.0-0.15 16/4/2025 SE281815.055	TP148 SOIL 0.55-0.65 16/4/2025 SE281815.056	TP150 SOIL 0.0-0.1 17/4/2025 SE281815.058
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	**57**	<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	TP150 SOIL 0.15-0.25 17/4/2025 SE281815.059	TP151 SOIL 0.0-0.3 15/4/2025 SE281815.060	TP151 SOIL 0.5-0.8 15/4/2025 SE281815.061	TP151 SOIL 0.85-0.95 15/4/2025 SE281815.062	TP152 SOIL 0.0-0.3 15/4/2025 SE281815.063
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP152 SOIL 0.5-0.8 15/4/2025 SE281815.064	TP153 SOIL 0.0-0.15 15/4/2025 SE281815.065	TP153 SOIL 1.0-1.3 15/4/2025 SE281815.067	TP154 SOIL 0.0-0.15 15/4/2025 SE281815.069	TP154 SOIL 0.55-0.65 15/4/2025 SE281815.070
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	**48**	<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	TP155 SOIL 0.0-0.15 16/4/2025 SE281815.071	TP155 SOIL 0.2-0.5 16/4/2025 SE281815.072	TP157 SOIL 0.0-0.15 16/4/2025 SE281815.074	TP158 SOIL 0.0-0.15 16/4/2025 SE281815.075	TP159 SOIL 0.0-0.15 16/4/2025 SE281815.076
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	**55**	<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	TP160 SOIL 0.0-0.15 16/4/2025 SE281815.077	TP161 SOIL 0.0-0.15 16/4/2025 SE281815.078	TP162 SOIL 0.0-0.15 16/4/2025 SE281815.079	TP163 SOIL 0.0-0.15 16/4/2025 SE281815.080	TP164 SOIL 0.0-0.1 16/4/2025 SE281815.081
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	**50**	<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: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP165 SOIL 0.0-0.1 16/4/2025 SE281815.082	DDS2 SOIL - 16/4/2025 SE281815.084	DDS4 SOIL - 14/4/2025 SE281815.086	DDS6 SOIL - 17/4/2025 SE281815.088
TRH C10-C14	mg/kg	20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	**46**	<45	**49**	**67**
TRH C37-C40	mg/kg	100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 24/4/2025

PARAMETER	UOM	LOR	TP104 SOIL 0.0-0.1 15/4/2025 SE281815.004	TP107 SOIL 0.0-0.15 15/4/2025 SE281815.009	TP113 SOIL 0.0-0.1 17/4/2025 SE281815.017	TP130 SOIL 0.0-0.15 17/4/2025 SE281815.036	TP141 SOIL 0.0-0.15 15/4/2025 SE281815.048
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(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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*	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (NEPM/WHO 16)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP142 SOIL 0.0-0.15 15/4/2025 SE281815.049	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050	TP148 SOIL 0.0-0.15 16/4/2025 SE281815.055	TP148 SOIL 0.55-0.65 16/4/2025 SE281815.056	TP150 SOIL 0.0-0.1 17/4/2025 SE281815.058
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(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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*	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (NEPM/WHO 16)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP150 SOIL 0.15-0.25 17/4/2025 SE281815.059	TP151 SOIL 0.0-0.3 15/4/2025 SE281815.060	TP151 SOIL 0.5-0.8 15/4/2025 SE281815.061	TP151 SOIL 0.85-0.95 15/4/2025 SE281815.062	TP152 SOIL 0.0-0.3 15/4/2025 SE281815.063
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(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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*	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (NEPM/WHO 16)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP152 SOIL 0.5-0.8 15/4/2025 SE281815.064	TP153 SOIL 0.0-0.15 15/4/2025 SE281815.065	TP153 SOIL 1.0-1.3 15/4/2025 SE281815.067	TP154 SOIL 0.0-0.15 15/4/2025 SE281815.069	TP154 SOIL 0.55-0.65 15/4/2025 SE281815.070
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	**0.4**	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	**0.3**	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	**0.3**	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	**0.2**	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	**0.3**	<0.1	<0.1	<0.1	<0.1
Benzo(b&j&k)fluoranthene	mg/kg	0.2	**0.5**	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.1	**0.3**	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	**0.3**	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	**0.2**	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	**0.4**	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	**0.5**	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	**0.5**	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.1	**2.6**	<0.1	<0.1	<0.1	<0.1
Total PAH (NEPM/WHO 16)	mg/kg	0.1	**2.6**	<0.1	<0.1	<0.1	<0.1

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP155 SOIL 0.0-0.15 16/4/2025 SE281815.071	TP155 SOIL 0.2-0.5 16/4/2025 SE281815.072	TP157 SOIL 0.0-0.15 16/4/2025 SE281815.074	TP158 SOIL 0.0-0.15 16/4/2025 SE281815.075	TP159 SOIL 0.0-0.15 16/4/2025 SE281815.076
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(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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*	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (NEPM/WHO 16)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP160 SOIL 0.0-0.15 16/4/2025 SE281815.077	TP161 SOIL 0.0-0.15 16/4/2025 SE281815.078	TP162 SOIL 0.0-0.15 16/4/2025 SE281815.079	TP163 SOIL 0.0-0.15 16/4/2025 SE281815.080	TP164 SOIL 0.0-0.1 16/4/2025 SE281815.081
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(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
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*	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (NEPM/WHO 16)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP165 SOIL 0.0-0.1 16/4/2025 SE281815.082	DDS2 SOIL - 16/4/2025 SE281815.084	DDS4 SOIL - 14/4/2025 SE281815.086	DDS6 SOIL - 17/4/2025 SE281815.088
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (NEPM/WHO 16)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025

PARAMETER	UOM	LOR	TP101 SOIL 0.0-0.1 15/4/2025 SE281815.001	TP102 SOIL 0.0-0.1 15/4/2025 SE281815.002	TP103 SOIL 0.0-0.1 15/4/2025 SE281815.003	TP104 SOIL 0.0-0.1 15/4/2025 SE281815.004	TP105 SOIL 0.0-0.15 15/4/2025 SE281815.005
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	**0.5**	**1.4**	**0.1**	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	**0.1**	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	**0.5**	**1.5**	**0.1**	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	**0.5**	**1.5**	**0.1**	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP105 SOIL 0.25-0.35 15/4/2025 SE281815.006	TP106 SOIL 0.05-0.2 15/4/2025 SE281815.007	TP106 SOIL 0.25-0.35 15/4/2025 SE281815.008	TP107 SOIL 0.0-0.15 15/4/2025 SE281815.009	TP108 SOIL 0.0-0.15 15/4/2025 SE281815.010
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP108 SOIL 0.25-0.35 15/4/2025 SE281815.011	TP109 SOIL 0.0-0.15 16/4/2025 SE281815.012	TP110 SOIL 0.0-0.1 16/4/2025 SE281815.013	TP111 SOIL 0.0-0.1 17/4/2025 SE281815.014	TP111 SOIL 0.15-0.25 17/4/2025 SE281815.015
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP112 SOIL 0.0-0.15 16/4/2025 SE281815.016	TP113 SOIL 0.0-0.1 17/4/2025 SE281815.017	TP114 SOIL 0.0-0.1 17/4/2025 SE281815.018	TP115 SOIL 0.0-0.1 16/4/2025 SE281815.019	TP116 SOIL 0.0-0.1 16/4/2025 SE281815.020
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP117 SOIL 0.0-0.15 16/4/2025 SE281815.021	TP118 SOIL 0.0-0.1 17/4/2025 SE281815.022	TP119 SOIL 0.0-0.1 17/4/2025 SE281815.023	TP120 SOIL 0.0-0.1 17/4/2025 SE281815.024	TP121 SOIL 0.0-0.1 17/4/2025 SE281815.025
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP122 SOIL 0.0-0.1 17/4/2025 SE281815.026	TP123 SOIL 0.0-0.1 17/4/2025 SE281815.027	TP123 SOIL 0.15-0.25 17/4/2025 SE281815.028	TP124 SOIL 0.0-0.1 17/4/2025 SE281815.029	TP124 SOIL 0.15-0.25 17/4/2025 SE281815.030
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP125 SOIL 0.0-0.1 17/4/2025 SE281815.031	TP126 SOIL 0.0-0.1 17/4/2025 SE281815.032	TP127 SOIL 0.0-0.1 16/4/2025 SE281815.033	TP128 SOIL 0.0-0.1 17/4/2025 SE281815.034	TP129 SOIL 0.0-0.1 17/4/2025 SE281815.035
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP130 SOIL 0.0-0.15 17/4/2025 SE281815.036	TP131 SOIL 0.0-0.1 17/4/2025 SE281815.037	TP131 SOIL 0.15-0.25 17/4/2025 SE281815.038	TP132 SOIL 0.0-0.1 17/4/2025 SE281815.039	TP133 SOIL 0.0-0.1 17/4/2025 SE281815.040
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP134 SOIL 0.0-0.15 16/4/2025 SE281815.041	TP135 SOIL 0.0-0.15 16/4/2025 SE281815.042	TP136 SOIL 0.0-0.1 17/4/2025 SE281815.043	TP137 SOIL 0.0-0.1 17/4/2025 SE281815.044	TP138 SOIL 0.0-0.1 15/4/2025 SE281815.045
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP139 SOIL 0.0-0.1 15/4/2025 SE281815.046	TP140 SOIL 0.0-0.1 15/4/2025 SE281815.047	TP141 SOIL 0.0-0.15 15/4/2025 SE281815.048	TP142 SOIL 0.0-0.15 15/4/2025 SE281815.049	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP144 SOIL 0.0-0.15 16/4/2025 SE281815.051	TP145 SOIL 0.0-0.15 16/4/2025 SE281815.052	TP146 SOIL 0.0-0.15 16/4/2025 SE281815.053	TP147 SOIL 0.0-0.15 16/4/2025 SE281815.054	TP148 SOIL 0.0-0.15 16/4/2025 SE281815.055
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP148 SOIL 0.55-0.65 16/4/2025 SE281815.056	TP149 SOIL 0.0-0.15 16/4/2025 SE281815.057	TP150 SOIL 0.0-0.1 17/4/2025 SE281815.058	TP150 SOIL 0.15-0.25 17/4/2025 SE281815.059	TP151 SOIL 0.0-0.3 15/4/2025 SE281815.060
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	**0.2**
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	**0.2**
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	**0.4**
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	**0.4**
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP151 SOIL 0.5-0.8 15/4/2025 SE281815.061	TP151 SOIL 0.85-0.95 15/4/2025 SE281815.062	TP152 SOIL 0.0-0.3 15/4/2025 SE281815.063	TP152 SOIL 0.5-0.8 15/4/2025 SE281815.064	TP153 SOIL 0.0-0.15 15/4/2025 SE281815.065
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	**1.0**	<0.1	**0.1**	**0.1**	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	**0.2**	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	**1.2**	<0.1	**0.1**	**0.1**	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	**1.2**	<0.1	**0.1**	**0.1**	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP153 SOIL 0.5-0.8 15/4/2025 SE281815.066	TP153 SOIL 1.0-1.3 15/4/2025 SE281815.067	TP153 SOIL 1.55-1.65 15/4/2025 SE281815.068	TP154 SOIL 0.0-0.15 15/4/2025 SE281815.069	TP154 SOIL 0.55-0.65 15/4/2025 SE281815.070
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP155 SOIL 0.0-0.15 16/4/2025 SE281815.071	TP155 SOIL 0.2-0.5 16/4/2025 SE281815.072	TP156 SOIL 0.0-0.15 16/4/2025 SE281815.073	TP157 SOIL 0.0-0.15 16/4/2025 SE281815.074	TP158 SOIL 0.0-0.15 16/4/2025 SE281815.075
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP159 SOIL 0.0-0.15 16/4/2025 SE281815.076	TP160 SOIL 0.0-0.15 16/4/2025 SE281815.077	TP161 SOIL 0.0-0.15 16/4/2025 SE281815.078	TP162 SOIL 0.0-0.15 16/4/2025 SE281815.079	TP163 SOIL 0.0-0.15 16/4/2025 SE281815.080
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP164 SOIL 0.0-0.1 16/4/2025 SE281815.081	TP165 SOIL 0.0-0.1 16/4/2025 SE281815.082	DDS1 SOIL - 15/4/2025 SE281815.083	DDS2 SOIL - 16/4/2025 SE281815.084	DDS3 SOIL - 16/4/2025 SE281815.085
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

OC Pesticides in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	DDS4 SOIL - 14/4/2025 SE281815.086	DDS5 SOIL - 17/4/2025 SE281815.087	DDS6 SOIL - 17/4/2025 SE281815.088
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1
Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1
Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	<0.1
Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1
Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	<0.1

OP Pesticides in Soil [AN420] Tested: 24/4/2025

PARAMETER	UOM	LOR	TP104 SOIL 0.0-0.1 15/4/2025 SE281815.004	TP113 SOIL 0.0-0.1 17/4/2025 SE281815.017	TP130 SOIL 0.0-0.15 17/4/2025 SE281815.036	TP141 SOIL 0.0-0.15 15/4/2025 SE281815.048	TP142 SOIL 0.0-0.15 15/4/2025 SE281815.049
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	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050	TP148 SOIL 0.0-0.15 16/4/2025 SE281815.055	TP148 SOIL 0.55-0.65 16/4/2025 SE281815.056	TP151 SOIL 0.0-0.3 15/4/2025 SE281815.060	TP151 SOIL 0.5-0.8 15/4/2025 SE281815.061
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	TP151 SOIL 0.85-0.95 15/4/2025 SE281815.062	TP152 SOIL 0.0-0.3 15/4/2025 SE281815.063	TP152 SOIL 0.5-0.8 15/4/2025 SE281815.064	TP153 SOIL 0.0-0.15 15/4/2025 SE281815.065	TP153 SOIL 0.5-0.8 15/4/2025 SE281815.066
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: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP153 SOIL 1.0-1.3 15/4/2025 SE281815.067	TP154 SOIL 0.0-0.15 15/4/2025 SE281815.069	TP154 SOIL 0.55-0.65 15/4/2025 SE281815.070	TP155 SOIL 0.0-0.15 16/4/2025 SE281815.071	TP155 SOIL 0.2-0.5 16/4/2025 SE281815.072
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	TP157 SOIL 0.0-0.15 16/4/2025 SE281815.074	TP158 SOIL 0.0-0.15 16/4/2025 SE281815.075	TP159 SOIL 0.0-0.15 16/4/2025 SE281815.076	TP160 SOIL 0.0-0.15 16/4/2025 SE281815.077	TP161 SOIL 0.0-0.15 16/4/2025 SE281815.078
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	TP163 SOIL 0.0-0.15 16/4/2025 SE281815.080	TP164 SOIL 0.0-0.1 16/4/2025 SE281815.081	DDS2 SOIL - 16/4/2025 SE281815.084	DDS4 SOIL - 14/4/2025 SE281815.086	DDS6 SOIL - 17/4/2025 SE281815.088
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

PCBs in Soil [AN420] Tested: 24/4/2025

PARAMETER	UOM	LOR	TP104 SOIL 0.0-0.1 15/4/2025 SE281815.004	TP107 SOIL 0.0-0.15 15/4/2025 SE281815.009	TP113 SOIL 0.0-0.1 17/4/2025 SE281815.017	TP130 SOIL 0.0-0.15 17/4/2025 SE281815.036	TP141 SOIL 0.0-0.15 15/4/2025 SE281815.048
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP142 SOIL 0.0-0.15 15/4/2025 SE281815.049	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050	TP148 SOIL 0.0-0.15 16/4/2025 SE281815.055	TP148 SOIL 0.55-0.65 16/4/2025 SE281815.056	TP150 SOIL 0.0-0.1 17/4/2025 SE281815.058
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP150 SOIL 0.15-0.25 17/4/2025 SE281815.059	TP151 SOIL 0.0-0.3 15/4/2025 SE281815.060	TP151 SOIL 0.5-0.8 15/4/2025 SE281815.061	TP151 SOIL 0.85-0.95 15/4/2025 SE281815.062	TP152 SOIL 0.0-0.3 15/4/2025 SE281815.063
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP152 SOIL 0.5-0.8 15/4/2025 SE281815.064	TP153 SOIL 0.0-0.15 15/4/2025 SE281815.065	TP153 SOIL 1.0-1.3 15/4/2025 SE281815.067	TP154 SOIL 0.0-0.15 15/4/2025 SE281815.069	TP154 SOIL 0.55-0.65 15/4/2025 SE281815.070
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PCBs in Soil [AN420] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP155 SOIL 0.0-0.15 16/4/2025 SE281815.071	TP155 SOIL 0.2-0.5 16/4/2025 SE281815.072	TP157 SOIL 0.0-0.15 16/4/2025 SE281815.074	TP158 SOIL 0.0-0.15 16/4/2025 SE281815.075	TP159 SOIL 0.0-0.15 16/4/2025 SE281815.076
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP160 SOIL 0.0-0.15 16/4/2025 SE281815.077	TP161 SOIL 0.0-0.15 16/4/2025 SE281815.078	TP162 SOIL 0.0-0.15 16/4/2025 SE281815.079	TP163 SOIL 0.0-0.15 16/4/2025 SE281815.080	TP164 SOIL 0.0-0.1 16/4/2025 SE281815.081
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TP165 SOIL 0.0-0.1 16/4/2025 SE281815.082	DDS2 SOIL - 16/4/2025 SE281815.084	DDS4 SOIL - 14/4/2025 SE281815.086	DDS6 SOIL - 17/4/2025 SE281815.088
Arochlor 1016	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1

Total Phenolics in Soil [AN295] Tested: 29/4/2025

PARAMETER	UOM	LOR	TP107 SOIL 0.0-0.15 15/4/2025 SE281815.009	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050	TP159 SOIL 0.0-0.15 16/4/2025 SE281815.076	TP160 SOIL 0.0-0.15 16/4/2025 SE281815.077
Total Phenols	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5

pH in soil (1:5) [AN101] Tested: 24/4/2025

PARAMETER	UOM	LOR	TP104 SOIL 0.0-0.1 15/4/2025 SE281815.004	TP105 SOIL 0.25-0.35 15/4/2025 SE281815.006	TP106 SOIL 0.25-0.35 15/4/2025 SE281815.008	TP108 SOIL 0.25-0.35 15/4/2025 SE281815.011	TP109 SOIL 0.0-0.15 16/4/2025 SE281815.012
pH	pH Units	0.1	5.6	6.2	5.9	6.6	5.5

PARAMETER	UOM	LOR	TP111 SOIL 0.0-0.1 17/4/2025 SE281815.014	TP111 SOIL 0.15-0.25 17/4/2025 SE281815.015	TP113 SOIL 0.0-0.1 17/4/2025 SE281815.017	TP114 SOIL 0.0-0.1 17/4/2025 SE281815.018	TP115 SOIL 0.0-0.1 16/4/2025 SE281815.019
pH	pH Units	0.1	5.6	6.0	5.5	5.2	5.6

PARAMETER	UOM	LOR	TP117 SOIL 0.0-0.15 16/4/2025 SE281815.021	TP120 SOIL 0.0-0.1 17/4/2025 SE281815.024	TP123 SOIL 0.0-0.1 17/4/2025 SE281815.027	TP123 SOIL 0.15-0.25 17/4/2025 SE281815.028	TP124 SOIL 0.15-0.25 17/4/2025 SE281815.030
pH	pH Units	0.1	5.7	5.1	4.5	4.3	5.3

PARAMETER	UOM	LOR	TP127 SOIL 0.0-0.1 16/4/2025 SE281815.033	TP130 SOIL 0.0-0.15 17/4/2025 SE281815.036	TP131 SOIL 0.15-0.25 17/4/2025 SE281815.038	TP133 SOIL 0.0-0.1 17/4/2025 SE281815.040	TP139 SOIL 0.0-0.1 15/4/2025 SE281815.046
pH	pH Units	0.1	5.7	5.5	5.1	5.4	6.1

PARAMETER	UOM	LOR	TP141 SOIL 0.0-0.15 15/4/2025 SE281815.048	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050	TP145 SOIL 0.0-0.15 16/4/2025 SE281815.052	TP148 SOIL 0.0-0.15 16/4/2025 SE281815.055	TP148 SOIL 0.55-0.65 16/4/2025 SE281815.056
pH	pH Units	0.1	6.2	7.4	5.6	6.0	6.9

PARAMETER	UOM	LOR	TP149 SOIL 0.0-0.15 16/4/2025 SE281815.057	TP150 SOIL 0.0-0.1 17/4/2025 SE281815.058	TP150 SOIL 0.15-0.25 17/4/2025 SE281815.059	TP151 SOIL 0.0-0.3 15/4/2025 SE281815.060	TP151 SOIL 0.5-0.8 15/4/2025 SE281815.061
pH	pH Units	0.1	7.0	5.3	5.9	7.3	7.5

PARAMETER	UOM	LOR	TP151 SOIL 0.85-0.95 15/4/2025 SE281815.062	TP152 SOIL 0.0-0.3 15/4/2025 SE281815.063	TP152 SOIL 0.5-0.8 15/4/2025 SE281815.064	TP153 SOIL 0.0-0.15 15/4/2025 SE281815.065	TP153 SOIL 1.0-1.3 15/4/2025 SE281815.067
pH	pH Units	0.1	6.5	7.6	6.7	6.5	6.7

pH in soil (1:5) [AN101] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP154 SOIL 0.0-0.15 15/4/2025 SE281815.069	TP154 SOIL 0.55-0.65 15/4/2025 SE281815.070	TP155 SOIL 0.0-0.15 16/4/2025 SE281815.071	TP155 SOIL 0.2-0.5 16/4/2025 SE281815.072	TP165 SOIL 0.0-0.1 16/4/2025 SE281815.082
pH	pH Units	0.1	**6.8**	**7.0**	**6.3**	**7.6**	**6.3**

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 29/4/2025

PARAMETER	UOM	LOR	TP104 SOIL 0.0-0.1 15/4/2025 SE281815.004	TP105 SOIL 0.25-0.35 15/4/2025 SE281815.006	TP106 SOIL 0.25-0.35 15/4/2025 SE281815.008	TP108 SOIL 0.25-0.35 15/4/2025 SE281815.011	TP109 SOIL 0.0-0.15 16/4/2025 SE281815.012
Exchangeable Calcium, Ca	cmol (+)/kg	0.01	2.7	3.9	2.5	6.6	3.9
Exchangeable Calcium Percentage*	%	0.1	52.7	68.5	67.0	65.1	62.6
Exchangeable Potassium, K	cmol (+)/kg	0.01	0.09	0.33	0.14	0.46	1.0
Exchangeable Potassium Percentage*	%	0.1	1.7	5.7	3.8	4.5	16.4
Exchangeable Magnesium, Mg	cmol (+)/kg	0.02	1.2	1.4	1.0	2.9	1.3
Exchangeable Magnesium Percentage*	%	0.1	24.0	25.1	28.6	28.5	20.4
Exchangeable Sodium, Na	cmol (+)/kg	0.01	1.1	0.05	0.02	0.19	0.03
Exchangeable Sodium Percentage*	%	0.1	21.6	0.8	0.6	1.9	0.5
Cation Exchange Capacity	cmol (+)/kg	0.02	5.2	5.7	3.7	10	6.2

PARAMETER	UOM	LOR	TP111 SOIL 0.0-0.1 17/4/2025 SE281815.014	TP111 SOIL 0.15-0.25 17/4/2025 SE281815.015	TP113 SOIL 0.0-0.1 17/4/2025 SE281815.017	TP114 SOIL 0.0-0.1 17/4/2025 SE281815.018	TP115 SOIL 0.0-0.1 16/4/2025 SE281815.019
Exchangeable Calcium, Ca	cmol (+)/kg	0.01	1.7	2.7	1.8	1.2	1.8
Exchangeable Calcium Percentage*	%	0.1	65.7	68.1	71.3	60.5	59.7
Exchangeable Potassium, K	cmol (+)/kg	0.01	0.41	0.37	0.24	0.27	0.09
Exchangeable Potassium Percentage*	%	0.1	15.5	9.6	9.4	13.3	3.0
Exchangeable Magnesium, Mg	cmol (+)/kg	0.02	0.47	0.84	0.49	0.48	1.0
Exchangeable Magnesium Percentage*	%	0.1	17.7	21.5	19.0	24.0	33.3
Exchangeable Sodium, Na	cmol (+)/kg	0.01	0.03	0.03	<0.01	0.04	0.12
Exchangeable Sodium Percentage*	%	0.1	1.0	0.9	0.3	2.2	4.0
Cation Exchange Capacity	cmol (+)/kg	0.02	2.6	3.9	2.6	2.0	3.0

PARAMETER	UOM	LOR	TP117 SOIL 0.0-0.15 16/4/2025 SE281815.021	TP120 SOIL 0.0-0.1 17/4/2025 SE281815.024	TP123 SOIL 0.0-0.1 17/4/2025 SE281815.027	TP123 SOIL 0.15-0.25 17/4/2025 SE281815.028	TP124 SOIL 0.15-0.25 17/4/2025 SE281815.030
Exchangeable Calcium, Ca	cmol (+)/kg	0.01	2.4	1.5	0.84	0.49	1.4
Exchangeable Calcium Percentage*	%	0.1	66.2	70.2	66.4	60.9	63.4
Exchangeable Potassium, K	cmol (+)/kg	0.01	0.48	0.19	0.14	0.13	0.15
Exchangeable Potassium Percentage*	%	0.1	13.2	8.9	11.1	16.0	6.7
Exchangeable Magnesium, Mg	cmol (+)/kg	0.02	0.75	0.40	0.22	0.15	0.63
Exchangeable Magnesium Percentage*	%	0.1	20.6	18.5	17.1	18.6	27.6
Exchangeable Sodium, Na	cmol (+)/kg	0.01	<0.01	0.05	0.07	0.04	0.05
Exchangeable Sodium Percentage*	%	0.1	<0.1	2.4	5.4	4.5	2.3
Cation Exchange Capacity	cmol (+)/kg	0.02	3.6	2.1	1.3	0.81	2.3

PARAMETER	UOM	LOR	TP127 SOIL 0.0-0.1 16/4/2025 SE281815.033	TP130 SOIL 0.0-0.15 17/4/2025 SE281815.036	TP131 SOIL 0.15-0.25 17/4/2025 SE281815.038	TP133 SOIL 0.0-0.1 17/4/2025 SE281815.040	TP139 SOIL 0.0-0.1 15/4/2025 SE281815.046
Exchangeable Calcium, Ca	cmol (+)/kg	0.01	2.3	4.5	1.2	2.2	4.8
Exchangeable Calcium Percentage*	%	0.1	66.5	70.6	66.4	56.0	59.2
Exchangeable Potassium, K	cmol (+)/kg	0.01	0.20	0.67	0.24	0.14	0.10
Exchangeable Potassium Percentage*	%	0.1	5.7	10.4	12.9	3.5	1.2
Exchangeable Magnesium, Mg	cmol (+)/kg	0.02	0.87	1.2	0.36	0.91	2.9
Exchangeable Magnesium Percentage*	%	0.1	25.4	18.2	19.6	23.2	35.7
Exchangeable Sodium, Na	cmol (+)/kg	0.01	0.08	0.05	0.02	0.68	0.32
Exchangeable Sodium Percentage*	%	0.1	2.4	0.7	1.0	17.3	3.9
Cation Exchange Capacity	cmol (+)/kg	0.02	3.4	6.4	1.8	3.9	8.2

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 29/4/2025 (continued)

PARAMETER	UOM	LOR	TP141 SOIL 0.0-0.15 15/4/2025 SE281815.048	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050	TP145 SOIL 0.0-0.15 16/4/2025 SE281815.052	TP148 SOIL 0.0-0.15 16/4/2025 SE281815.055	TP148 SOIL 0.55-0.65 16/4/2025 SE281815.056
Exchangeable Calcium, Ca	cmol (+)/kg	0.01	5.5	7.6	3.7	4.5	9.4
Exchangeable Calcium Percentage*	%	0.1	70.7	74.0	58.6	59.3	34.9
Exchangeable Potassium, K	cmol (+)/kg	0.01	0.26	0.14	0.95	0.64	0.12
Exchangeable Potassium Percentage*	%	0.1	3.3	1.3	14.8	8.4	0.4
Exchangeable Magnesium, Mg	cmol (+)/kg	0.02	1.9	2.4	1.6	2.4	16
Exchangeable Magnesium Percentage*	%	0.1	24.4	23.5	24.4	31.7	61.0
Exchangeable Sodium, Na	cmol (+)/kg	0.01	0.12	0.12	0.14	0.04	0.97
Exchangeable Sodium Percentage*	%	0.1	1.6	1.2	2.1	0.6	3.6
Cation Exchange Capacity	cmol (+)/kg	0.02	7.8	10	6.4	7.6	27

PARAMETER	UOM	LOR	TP149 SOIL 0.0-0.15 16/4/2025 SE281815.057	TP150 SOIL 0.0-0.1 17/4/2025 SE281815.058	TP150 SOIL 0.15-0.25 17/4/2025 SE281815.059	TP151 SOIL 0.0-0.3 15/4/2025 SE281815.060	TP151 SOIL 0.5-0.8 15/4/2025 SE281815.061
Exchangeable Calcium, Ca	cmol (+)/kg	0.01	10	3.0	4.0	40	11
Exchangeable Calcium Percentage*	%	0.1	51.8	66.1	71.1	96.1	89.9
Exchangeable Potassium, K	cmol (+)/kg	0.01	0.40	0.55	0.15	0.66	0.39
Exchangeable Potassium Percentage*	%	0.1	2.0	12.3	2.7	1.6	3.1
Exchangeable Magnesium, Mg	cmol (+)/kg	0.02	8.8	0.85	1.2	0.88	0.84
Exchangeable Magnesium Percentage*	%	0.1	43.7	19.1	22.0	2.1	6.7
Exchangeable Sodium, Na	cmol (+)/kg	0.01	0.51	0.11	0.24	0.09	0.04
Exchangeable Sodium Percentage*	%	0.1	2.5	2.5	4.2	0.2	0.3
Cation Exchange Capacity	cmol (+)/kg	0.02	20	4.5	5.7	41	13

PARAMETER	UOM	LOR	TP151 SOIL 0.85-0.95 15/4/2025 SE281815.062	TP152 SOIL 0.0-0.3 15/4/2025 SE281815.063	TP152 SOIL 0.5-0.8 15/4/2025 SE281815.064	TP153 SOIL 0.0-0.15 15/4/2025 SE281815.065	TP153 SOIL 1.0-1.3 15/4/2025 SE281815.067
Exchangeable Calcium, Ca	cmol (+)/kg	0.01	10	10	12	4.7	4.8
Exchangeable Calcium Percentage*	%	0.1	88.2	88.2	87.3	70.5	75.1
Exchangeable Potassium, K	cmol (+)/kg	0.01	0.46	0.46	0.70	0.66	0.34
Exchangeable Potassium Percentage*	%	0.1	4.0	4.0	5.1	10.0	5.3
Exchangeable Magnesium, Mg	cmol (+)/kg	0.02	0.82	0.82	0.94	1.3	1.2
Exchangeable Magnesium Percentage*	%	0.1	7.1	7.1	6.9	19.0	19.3
Exchangeable Sodium, Na	cmol (+)/kg	0.01	0.09	0.09	0.08	0.03	0.02
Exchangeable Sodium Percentage*	%	0.1	0.7	0.7	0.6	0.4	0.4
Cation Exchange Capacity	cmol (+)/kg	0.02	12	12	14	6.6	6.4

PARAMETER	UOM	LOR	TP154 SOIL 0.0-0.15 15/4/2025 SE281815.069	TP154 SOIL 0.55-0.65 15/4/2025 SE281815.070	TP155 SOIL 0.0-0.15 16/4/2025 SE281815.071	TP155 SOIL 0.2-0.5 16/4/2025 SE281815.072	TP165 SOIL 0.0-0.1 16/4/2025 SE281815.082
Exchangeable Calcium, Ca	cmol (+)/kg	0.01	12	5.3	4.7	13	5.2
Exchangeable Calcium Percentage*	%	0.1	76.9	72.8	75.8	89.3	64.5
Exchangeable Potassium, K	cmol (+)/kg	0.01	0.24	0.26	0.27	0.14	1.2
Exchangeable Potassium Percentage*	%	0.1	1.5	3.6	4.4	1.0	15.3
Exchangeable Magnesium, Mg	cmol (+)/kg	0.02	3.2	1.6	1.2	1.4	1.6
Exchangeable Magnesium Percentage*	%	0.1	20.9	22.8	19.8	9.6	19.4
Exchangeable Sodium, Na	cmol (+)/kg	0.01	0.10	0.06	<0.01	0.02	0.07
Exchangeable Sodium Percentage*	%	0.1	0.7	0.8	<0.1	0.1	0.8
Cation Exchange Capacity	cmol (+)/kg	0.02	15	7.2	6.2	14	8.1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/4/2025

PARAMETER	UOM	LOR	TP101 SOIL 0.0-0.1 15/4/2025 SE281815.001	TP102 SOIL 0.0-0.1 15/4/2025 SE281815.002	TP103 SOIL 0.0-0.1 15/4/2025 SE281815.003	TP104 SOIL 0.0-0.1 15/4/2025 SE281815.004	TP105 SOIL 0.0-0.15 15/4/2025 SE281815.005
Arsenic, As	mg/kg	1	4	15	5	2	1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	16	14	23	20	25
Copper, Cu	mg/kg	0.5	23	51	28	9.8	12
Lead, Pb	mg/kg	1	20	60	36	12	17
Nickel, Ni	mg/kg	0.5	5.6	5.4	4.2	5.1	9.0
Zinc, Zn	mg/kg	2	23	58	23	11	20

PARAMETER	UOM	LOR	TP105 SOIL 0.25-0.35 15/4/2025 SE281815.006	TP106 SOIL 0.05-0.2 15/4/2025 SE281815.007	TP106 SOIL 0.25-0.35 15/4/2025 SE281815.008	TP107 SOIL 0.0-0.15 15/4/2025 SE281815.009	TP108 SOIL 0.0-0.15 15/4/2025 SE281815.010
Arsenic, As	mg/kg	1	1	1	<1	5	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	24	20	46	48	24
Copper, Cu	mg/kg	0.5	13	13	9.6	14	15
Lead, Pb	mg/kg	1	7	7	6	28	25
Nickel, Ni	mg/kg	0.5	8.5	6.8	4.6	35	24
Zinc, Zn	mg/kg	2	13	12	7	19	61

PARAMETER	UOM	LOR	TP108 SOIL 0.25-0.35 15/4/2025 SE281815.011	TP109 SOIL 0.0-0.15 16/4/2025 SE281815.012	TP110 SOIL 0.0-0.1 16/4/2025 SE281815.013	TP111 SOIL 0.0-0.1 17/4/2025 SE281815.014	TP111 SOIL 0.15-0.25 17/4/2025 SE281815.015
Arsenic, As	mg/kg	1	1	3	6	5	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	22	30	37	31	77
Copper, Cu	mg/kg	0.5	14	14	17	13	15
Lead, Pb	mg/kg	1	11	24	40	32	14
Nickel, Ni	mg/kg	0.5	7.4	5.4	9.6	7.5	9.4
Zinc, Zn	mg/kg	2	30	40	18	12	13

PARAMETER	UOM	LOR	TP112 SOIL 0.0-0.15 16/4/2025 SE281815.016	TP114 SOIL 0.0-0.1 17/4/2025 SE281815.018	TP115 SOIL 0.0-0.1 16/4/2025 SE281815.019	TP116 SOIL 0.0-0.1 16/4/2025 SE281815.020	TP117 SOIL 0.0-0.15 16/4/2025 SE281815.021
Arsenic, As	mg/kg	1	4	2	<1	1	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	13	19	16	13	31
Copper, Cu	mg/kg	0.5	9.4	8.5	8.2	7.3	13
Lead, Pb	mg/kg	1	21	20	7	7	12
Nickel, Ni	mg/kg	0.5	3.0	2.6	5.4	3.9	6.5
Zinc, Zn	mg/kg	2	9	13	5	7	18

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP118 SOIL 0.0-0.1 17/4/2025 SE281815.022	TP119 SOIL 0.0-0.1 17/4/2025 SE281815.023	TP120 SOIL 0.0-0.1 17/4/2025 SE281815.024	TP121 SOIL 0.0-0.1 17/4/2025 SE281815.025	TP122 SOIL 0.0-0.1 17/4/2025 SE281815.026
Arsenic, As	mg/kg	1	1	1	1	1	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	17	10	14	22	15
Copper, Cu	mg/kg	0.5	6.1	6.4	7.3	16	13
Lead, Pb	mg/kg	1	8	10	7	10	10
Nickel, Ni	mg/kg	0.5	2.9	2.5	2.4	4.3	3.3
Zinc, Zn	mg/kg	2	5	15	9	15	12

PARAMETER	UOM	LOR	TP123 SOIL 0.0-0.1 17/4/2025 SE281815.027	TP123 SOIL 0.15-0.25 17/4/2025 SE281815.028	TP124 SOIL 0.0-0.1 17/4/2025 SE281815.029	TP124 SOIL 0.15-0.25 17/4/2025 SE281815.030	TP125 SOIL 0.0-0.1 17/4/2025 SE281815.031
Arsenic, As	mg/kg	1	2	2	<1	<1	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	31	55	11	20	14
Copper, Cu	mg/kg	0.5	14	13	5.7	6.0	7.6
Lead, Pb	mg/kg	1	11	11	11	7	9
Nickel, Ni	mg/kg	0.5	3.2	3.5	1.8	2.1	2.5
Zinc, Zn	mg/kg	2	12	13	6	5	8

PARAMETER	UOM	LOR	TP126 SOIL 0.0-0.1 17/4/2025 SE281815.032	TP127 SOIL 0.0-0.1 16/4/2025 SE281815.033	TP128 SOIL 0.0-0.1 17/4/2025 SE281815.034	TP129 SOIL 0.0-0.1 17/4/2025 SE281815.035	TP130 SOIL 0.0-0.15 17/4/2025 SE281815.036
Arsenic, As	mg/kg	1	<1	2	2	1	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	33	17	52	41	28
Copper, Cu	mg/kg	0.5	6.2	8.0	11	11	28
Lead, Pb	mg/kg	1	7	11	12	9	9
Nickel, Ni	mg/kg	0.5	2.9	5.6	6.1	5.6	4.1
Zinc, Zn	mg/kg	2	7	12	14	14	30

PARAMETER	UOM	LOR	TP131 SOIL 0.0-0.1 17/4/2025 SE281815.037	TP131 SOIL 0.15-0.25 17/4/2025 SE281815.038	TP132 SOIL 0.0-0.1 17/4/2025 SE281815.039	TP133 SOIL 0.0-0.1 17/4/2025 SE281815.040	TP134 SOIL 0.0-0.15 16/4/2025 SE281815.041
Arsenic, As	mg/kg	1	2	1	2	1	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	59	27	17	11	26
Copper, Cu	mg/kg	0.5	18	15	12	6.4	8.7
Lead, Pb	mg/kg	1	14	10	12	9	10
Nickel, Ni	mg/kg	0.5	4.0	3.2	4.0	2.9	7.4
Zinc, Zn	mg/kg	2	16	14	11	6	8

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP135 SOIL 0.0-0.15 16/4/2025 SE281815.042	TP136 SOIL 0.0-0.1 17/4/2025 SE281815.043	TP137 SOIL 0.0-0.1 17/4/2025 SE281815.044	TP138 SOIL 0.0-0.1 15/4/2025 SE281815.045	TP139 SOIL 0.0-0.1 15/4/2025 SE281815.046
Arsenic, As	mg/kg	1	2	2	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	25	13	40	36	48
Copper, Cu	mg/kg	0.5	11	8.8	12	20	20
Lead, Pb	mg/kg	1	13	11	19	88	21
Nickel, Ni	mg/kg	0.5	7.4	4.3	6.6	5.5	13
Zinc, Zn	mg/kg	2	10	11	15	100	35

PARAMETER	UOM	LOR	TP140 SOIL 0.0-0.1 15/4/2025 SE281815.047	TP141 SOIL 0.0-0.15 15/4/2025 SE281815.048	TP142 SOIL 0.0-0.15 15/4/2025 SE281815.049	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050	TP144 SOIL 0.0-0.15 16/4/2025 SE281815.051
Arsenic, As	mg/kg	1	5	3	3	2	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	43	43	25	27	96
Copper, Cu	mg/kg	0.5	26	21	22	17	14
Lead, Pb	mg/kg	1	15	14	12	8	8
Nickel, Ni	mg/kg	0.5	17	6.6	12	7.9	9.9
Zinc, Zn	mg/kg	2	44	24	31	18	17

PARAMETER	UOM	LOR	TP145 SOIL 0.0-0.15 16/4/2025 SE281815.052	TP146 SOIL 0.0-0.15 16/4/2025 SE281815.053	TP147 SOIL 0.0-0.15 16/4/2025 SE281815.054	TP148 SOIL 0.0-0.15 16/4/2025 SE281815.055	TP148 SOIL 0.55-0.65 16/4/2025 SE281815.056
Arsenic, As	mg/kg	1	3	2	2	5	15
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	130	50	56	68	64
Copper, Cu	mg/kg	0.5	21	9.0	15	22	30
Lead, Pb	mg/kg	1	10	9	10	13	2
Nickel, Ni	mg/kg	0.5	17	4.5	5.5	19	64
Zinc, Zn	mg/kg	2	39	11	13	28	50

PARAMETER	UOM	LOR	TP149 SOIL 0.0-0.15 16/4/2025 SE281815.057	TP150 SOIL 0.0-0.1 17/4/2025 SE281815.058	TP150 SOIL 0.15-0.25 17/4/2025 SE281815.059	TP151 SOIL 0.0-0.3 15/4/2025 SE281815.060	TP151 SOIL 0.5-0.8 15/4/2025 SE281815.061
Arsenic, As	mg/kg	1	2	8	5	11	28
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	0.7	0.6
Chromium, Cr	mg/kg	0.5	23	170	130	31	35
Copper, Cu	mg/kg	0.5	40	32	24	510	73
Lead, Pb	mg/kg	1	7	33	25	430	220
Nickel, Ni	mg/kg	0.5	8.6	21	19	26	13
Zinc, Zn	mg/kg	2	37	26	19	2000	930

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP151 SOIL 0.85-0.95 15/4/2025 SE281815.062	TP152 SOIL 0.0-0.3 15/4/2025 SE281815.063	TP152 SOIL 0.5-0.8 15/4/2025 SE281815.064	TP153 SOIL 0.0-0.15 15/4/2025 SE281815.065	TP153 SOIL 0.5-0.8 15/4/2025 SE281815.066
Arsenic, As	mg/kg	1	1	10	6	3	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	0.4	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	52	53	29	65	23
Copper, Cu	mg/kg	0.5	14	23	29	20	19
Lead, Pb	mg/kg	1	6	35	45	12	12
Nickel, Ni	mg/kg	0.5	7.5	7.2	10	8.5	8.0
Zinc, Zn	mg/kg	2	14	110	160	22	17

PARAMETER	UOM	LOR	TP153 SOIL 1.0-1.3 15/4/2025 SE281815.067	TP153 SOIL 1.55-1.65 15/4/2025 SE281815.068	TP154 SOIL 0.0-0.15 15/4/2025 SE281815.069	TP154 SOIL 0.55-0.65 15/4/2025 SE281815.070	TP155 SOIL 0.0-0.15 16/4/2025 SE281815.071
Arsenic, As	mg/kg	1	6	2	7	3	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	160	28	58	32	8.9
Copper, Cu	mg/kg	0.5	13	11	35	17	9.6
Lead, Pb	mg/kg	1	15	6	28	18	5
Nickel, Ni	mg/kg	0.5	5.3	6.3	22	9.6	4.5
Zinc, Zn	mg/kg	2	11	10	48	14	22

PARAMETER	UOM	LOR	TP155 SOIL 0.2-0.5 16/4/2025 SE281815.072	TP156 SOIL 0.0-0.15 16/4/2025 SE281815.073	TP157 SOIL 0.0-0.15 16/4/2025 SE281815.074	TP158 SOIL 0.0-0.15 16/4/2025 SE281815.075	TP159 SOIL 0.0-0.15 16/4/2025 SE281815.076
Arsenic, As	mg/kg	1	26	3	15	2	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	8.1	32	29	15	19
Copper, Cu	mg/kg	0.5	31	16	32	7.8	14
Lead, Pb	mg/kg	1	8	15	60	13	21
Nickel, Ni	mg/kg	0.5	9.1	12	10	4.4	6.6
Zinc, Zn	mg/kg	2	31	22	110	10	18

PARAMETER	UOM	LOR	TP160 SOIL 0.0-0.15 16/4/2025 SE281815.077	TP161 SOIL 0.0-0.15 16/4/2025 SE281815.078	TP162 SOIL 0.0-0.15 16/4/2025 SE281815.079	TP163 SOIL 0.0-0.15 16/4/2025 SE281815.080	TP164 SOIL 0.0-0.1 16/4/2025 SE281815.081
Arsenic, As	mg/kg	1	4	6	2	2	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	52	14	55	97	43
Copper, Cu	mg/kg	0.5	18	16	17	11	21
Lead, Pb	mg/kg	1	12	33	22	11	15
Nickel, Ni	mg/kg	0.5	10	3.9	8.6	8.1	13
Zinc, Zn	mg/kg	2	16	10	34	9	21

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP165 SOIL 0.0-0.1 16/4/2025 SE281815.082	DDS1 SOIL - 15/4/2025 SE281815.083	DDS2 SOIL - 16/4/2025 SE281815.084	DDS3 SOIL - 16/4/2025 SE281815.085	DDS4 SOIL - 14/4/2025 SE281815.086
Arsenic, As	mg/kg	1	3	2	5	4	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	55	16	72	56	8.6
Copper, Cu	mg/kg	0.5	21	13	23	24	11
Lead, Pb	mg/kg	1	93	16	13	22	28
Nickel, Ni	mg/kg	0.5	7.2	9.9	14	16	5.0
Zinc, Zn	mg/kg	2	95	22	33	41	23

PARAMETER	UOM	LOR	DDS5 SOIL - 17/4/2025 SE281815.087	DDS6 SOIL - 17/4/2025 SE281815.088
Arsenic, As	mg/kg	1	2	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	20	18
Copper, Cu	mg/kg	0.5	19	27
Lead, Pb	mg/kg	1	9	9
Nickel, Ni	mg/kg	0.5	4.6	4.5
Zinc, Zn	mg/kg	2	18	31

Mercury in Soil [AN312] Tested: 24/4/2025

PARAMETER	UOM	LOR	TP101 SOIL 0.0-0.1 15/4/2025 SE281815.001	TP102 SOIL 0.0-0.1 15/4/2025 SE281815.002	TP103 SOIL 0.0-0.1 15/4/2025 SE281815.003	TP104 SOIL 0.0-0.1 15/4/2025 SE281815.004	TP105 SOIL 0.0-0.15 15/4/2025 SE281815.005
Mercury	mg/kg	0.05	<0.05	0.07	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP105 SOIL 0.25-0.35 15/4/2025 SE281815.006	TP106 SOIL 0.05-0.2 15/4/2025 SE281815.007	TP106 SOIL 0.25-0.35 15/4/2025 SE281815.008	TP107 SOIL 0.0-0.15 15/4/2025 SE281815.009	TP108 SOIL 0.0-0.15 15/4/2025 SE281815.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	0.09

PARAMETER	UOM	LOR	TP108 SOIL 0.25-0.35 15/4/2025 SE281815.011	TP109 SOIL 0.0-0.15 16/4/2025 SE281815.012	TP110 SOIL 0.0-0.1 16/4/2025 SE281815.013	TP111 SOIL 0.0-0.1 17/4/2025 SE281815.014	TP111 SOIL 0.15-0.25 17/4/2025 SE281815.015
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP112 SOIL 0.0-0.15 16/4/2025 SE281815.016	TP114 SOIL 0.0-0.1 17/4/2025 SE281815.018	TP115 SOIL 0.0-0.1 16/4/2025 SE281815.019	TP116 SOIL 0.0-0.1 16/4/2025 SE281815.020	TP117 SOIL 0.0-0.15 16/4/2025 SE281815.021
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP118 SOIL 0.0-0.1 17/4/2025 SE281815.022	TP119 SOIL 0.0-0.1 17/4/2025 SE281815.023	TP120 SOIL 0.0-0.1 17/4/2025 SE281815.024	TP121 SOIL 0.0-0.1 17/4/2025 SE281815.025	TP122 SOIL 0.0-0.1 17/4/2025 SE281815.026
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP123 SOIL 0.0-0.1 17/4/2025 SE281815.027	TP123 SOIL 0.15-0.25 17/4/2025 SE281815.028	TP124 SOIL 0.0-0.1 17/4/2025 SE281815.029	TP124 SOIL 0.15-0.25 17/4/2025 SE281815.030	TP125 SOIL 0.0-0.1 17/4/2025 SE281815.031
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP126 SOIL 0.0-0.1 17/4/2025 SE281815.032	TP127 SOIL 0.0-0.1 16/4/2025 SE281815.033	TP128 SOIL 0.0-0.1 17/4/2025 SE281815.034	TP129 SOIL 0.0-0.1 17/4/2025 SE281815.035	TP130 SOIL 0.0-0.15 17/4/2025 SE281815.036
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Mercury in Soil [AN312] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP131 SOIL 0.0-0.1 17/4/2025 SE281815.037	TP131 SOIL 0.15-0.25 17/4/2025 SE281815.038	TP132 SOIL 0.0-0.1 17/4/2025 SE281815.039	TP133 SOIL 0.0-0.1 17/4/2025 SE281815.040	TP134 SOIL 0.0-0.15 16/4/2025 SE281815.041
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP135 SOIL 0.0-0.15 16/4/2025 SE281815.042	TP136 SOIL 0.0-0.1 17/4/2025 SE281815.043	TP137 SOIL 0.0-0.1 17/4/2025 SE281815.044	TP138 SOIL 0.0-0.1 15/4/2025 SE281815.045	TP139 SOIL 0.0-0.1 15/4/2025 SE281815.046
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	**0.06**	**0.06**

PARAMETER	UOM	LOR	TP140 SOIL 0.0-0.1 15/4/2025 SE281815.047	TP141 SOIL 0.0-0.15 15/4/2025 SE281815.048	TP142 SOIL 0.0-0.15 15/4/2025 SE281815.049	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050	TP144 SOIL 0.0-0.15 16/4/2025 SE281815.051
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP145 SOIL 0.0-0.15 16/4/2025 SE281815.052	TP146 SOIL 0.0-0.15 16/4/2025 SE281815.053	TP147 SOIL 0.0-0.15 16/4/2025 SE281815.054	TP148 SOIL 0.0-0.15 16/4/2025 SE281815.055	TP148 SOIL 0.55-0.65 16/4/2025 SE281815.056
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	**0.07**

PARAMETER	UOM	LOR	TP149 SOIL 0.0-0.15 16/4/2025 SE281815.057	TP150 SOIL 0.0-0.1 17/4/2025 SE281815.058	TP150 SOIL 0.15-0.25 17/4/2025 SE281815.059	TP151 SOIL 0.0-0.3 15/4/2025 SE281815.060	TP151 SOIL 0.5-0.8 15/4/2025 SE281815.061
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	**0.05**	**0.10**

PARAMETER	UOM	LOR	TP151 SOIL 0.85-0.95 15/4/2025 SE281815.062	TP152 SOIL 0.0-0.3 15/4/2025 SE281815.063	TP152 SOIL 0.5-0.8 15/4/2025 SE281815.064	TP153 SOIL 0.0-0.15 15/4/2025 SE281815.065	TP153 SOIL 0.5-0.8 15/4/2025 SE281815.066
Mercury	mg/kg	0.05	<0.05	<0.05	**0.07**	<0.05	<0.05

PARAMETER	UOM	LOR	TP153 SOIL 1.0-1.3 15/4/2025 SE281815.067	TP153 SOIL 1.55-1.65 15/4/2025 SE281815.068	TP154 SOIL 0.0-0.15 15/4/2025 SE281815.069	TP154 SOIL 0.55-0.65 15/4/2025 SE281815.070	TP155 SOIL 0.0-0.15 16/4/2025 SE281815.071
Mercury	mg/kg	0.05	<0.05	<0.05	**0.11**	<0.05	<0.05

Mercury in Soil [AN312] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP155 SOIL 0.2-0.5 16/4/2025 SE281815.072	TP156 SOIL 0.0-0.15 16/4/2025 SE281815.073	TP157 SOIL 0.0-0.15 16/4/2025 SE281815.074	TP158 SOIL 0.0-0.15 16/4/2025 SE281815.075	TP159 SOIL 0.0-0.15 16/4/2025 SE281815.076
Mercury	mg/kg	0.05	<0.05	<0.05	**0.39**	<0.05	<0.05

PARAMETER	UOM	LOR	TP160 SOIL 0.0-0.15 16/4/2025 SE281815.077	TP161 SOIL 0.0-0.15 16/4/2025 SE281815.078	TP162 SOIL 0.0-0.15 16/4/2025 SE281815.079	TP163 SOIL 0.0-0.15 16/4/2025 SE281815.080	TP164 SOIL 0.0-0.1 16/4/2025 SE281815.081
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	TP165 SOIL 0.0-0.1 16/4/2025 SE281815.082	DDS1 SOIL - 15/4/2025 SE281815.083	DDS2 SOIL - 16/4/2025 SE281815.084	DDS3 SOIL - 16/4/2025 SE281815.085	DDS4 SOIL - 14/4/2025 SE281815.086
Mercury	mg/kg	0.05	<0.05	**0.06**	<0.05	**0.05**	<0.05

PARAMETER	UOM	LOR	DDS5 SOIL - 17/4/2025 SE281815.087	DDS6 SOIL - 17/4/2025 SE281815.088
Mercury	mg/kg	0.05	<0.05	<0.05

Moisture Content [AN002] Tested: 24/4/2025

PARAMETER	UOM	LOR	TP101 SOIL 0.0-0.1 15/4/2025 SE281815.001	TP102 SOIL 0.0-0.1 15/4/2025 SE281815.002	TP103 SOIL 0.0-0.1 15/4/2025 SE281815.003	TP104 SOIL 0.0-0.1 15/4/2025 SE281815.004	TP105 SOIL 0.0-0.15 15/4/2025 SE281815.005
% Moisture	%w/w	1	6.9	6.6	7.7	9.4	5.9

PARAMETER	UOM	LOR	TP105 SOIL 0.25-0.35 15/4/2025 SE281815.006	TP106 SOIL 0.05-0.2 15/4/2025 SE281815.007	TP106 SOIL 0.25-0.35 15/4/2025 SE281815.008	TP107 SOIL 0.0-0.15 15/4/2025 SE281815.009	TP108 SOIL 0.0-0.15 15/4/2025 SE281815.010
% Moisture	%w/w	1	10.8	8.8	7.7	8.1	8.0

PARAMETER	UOM	LOR	TP108 SOIL 0.25-0.35 15/4/2025 SE281815.011	TP109 SOIL 0.0-0.15 16/4/2025 SE281815.012	TP110 SOIL 0.0-0.1 16/4/2025 SE281815.013	TP111 SOIL 0.0-0.1 17/4/2025 SE281815.014	TP111 SOIL 0.15-0.25 17/4/2025 SE281815.015
% Moisture	%w/w	1	13.2	8.8	7.3	5.2	7.6

PARAMETER	UOM	LOR	TP112 SOIL 0.0-0.15 16/4/2025 SE281815.016	TP113 SOIL 0.0-0.1 17/4/2025 SE281815.017	TP114 SOIL 0.0-0.1 17/4/2025 SE281815.018	TP115 SOIL 0.0-0.1 16/4/2025 SE281815.019	TP116 SOIL 0.0-0.1 16/4/2025 SE281815.020
% Moisture	%w/w	1	7.3	6.2	6.8	7.3	8.5

PARAMETER	UOM	LOR	TP117 SOIL 0.0-0.15 16/4/2025 SE281815.021	TP118 SOIL 0.0-0.1 17/4/2025 SE281815.022	TP119 SOIL 0.0-0.1 17/4/2025 SE281815.023	TP120 SOIL 0.0-0.1 17/4/2025 SE281815.024	TP121 SOIL 0.0-0.1 17/4/2025 SE281815.025
% Moisture	%w/w	1	6.2	5.6	6.2	10.8	9.5

PARAMETER	UOM	LOR	TP122 SOIL 0.0-0.1 17/4/2025 SE281815.026	TP123 SOIL 0.0-0.1 17/4/2025 SE281815.027	TP123 SOIL 0.15-0.25 17/4/2025 SE281815.028	TP124 SOIL 0.0-0.1 17/4/2025 SE281815.029	TP124 SOIL 0.15-0.25 17/4/2025 SE281815.030
% Moisture	%w/w	1	7.2	7.2	6.8	9.8	8.9

PARAMETER	UOM	LOR	TP125 SOIL 0.0-0.1 17/4/2025 SE281815.031	TP126 SOIL 0.0-0.1 17/4/2025 SE281815.032	TP127 SOIL 0.0-0.1 16/4/2025 SE281815.033	TP128 SOIL 0.0-0.1 17/4/2025 SE281815.034	TP129 SOIL 0.0-0.1 17/4/2025 SE281815.035
% Moisture	%w/w	1	11.4	11.4	9.6	7.8	8.8

Moisture Content [AN002] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP130 SOIL 0.0-0.15 17/4/2025 SE281815.036	TP131 SOIL 0.0-0.1 17/4/2025 SE281815.037	TP131 SOIL 0.15-0.25 17/4/2025 SE281815.038	TP132 SOIL 0.0-0.1 17/4/2025 SE281815.039	TP133 SOIL 0.0-0.1 17/4/2025 SE281815.040
% Moisture	%w/w	1	9.5	7.1	6.6	10.9	10.1

PARAMETER	UOM	LOR	TP134 SOIL 0.0-0.15 16/4/2025 SE281815.041	TP135 SOIL 0.0-0.15 16/4/2025 SE281815.042	TP136 SOIL 0.0-0.1 17/4/2025 SE281815.043	TP137 SOIL 0.0-0.1 17/4/2025 SE281815.044	TP138 SOIL 0.0-0.1 15/4/2025 SE281815.045
% Moisture	%w/w	1	6.7	9.3	11.5	11.8	10.1

PARAMETER	UOM	LOR	TP139 SOIL 0.0-0.1 15/4/2025 SE281815.046	TP140 SOIL 0.0-0.1 15/4/2025 SE281815.047	TP141 SOIL 0.0-0.15 15/4/2025 SE281815.048	TP142 SOIL 0.0-0.15 15/4/2025 SE281815.049	TP143 SOIL 0.0-0.15 16/4/2025 SE281815.050
% Moisture	%w/w	1	14.6	15.0	7.7	9.2	7.5

PARAMETER	UOM	LOR	TP144 SOIL 0.0-0.15 16/4/2025 SE281815.051	TP145 SOIL 0.0-0.15 16/4/2025 SE281815.052	TP146 SOIL 0.0-0.15 16/4/2025 SE281815.053	TP147 SOIL 0.0-0.15 16/4/2025 SE281815.054	TP148 SOIL 0.0-0.15 16/4/2025 SE281815.055
% Moisture	%w/w	1	11.1	12.3	11.4	8.1	10.9

PARAMETER	UOM	LOR	TP148 SOIL 0.55-0.65 16/4/2025 SE281815.056	TP149 SOIL 0.0-0.15 16/4/2025 SE281815.057	TP150 SOIL 0.0-0.1 17/4/2025 SE281815.058	TP150 SOIL 0.15-0.25 17/4/2025 SE281815.059	TP151 SOIL 0.0-0.3 15/4/2025 SE281815.060
% Moisture	%w/w	1	33.4	17.9	7.7	11.2	13.0

PARAMETER	UOM	LOR	TP151 SOIL 0.5-0.8 15/4/2025 SE281815.061	TP151 SOIL 0.85-0.95 15/4/2025 SE281815.062	TP152 SOIL 0.0-0.3 15/4/2025 SE281815.063	TP152 SOIL 0.5-0.8 15/4/2025 SE281815.064	TP153 SOIL 0.0-0.15 15/4/2025 SE281815.065
% Moisture	%w/w	1	14.2	17.5	7.4	12.7	8.0

PARAMETER	UOM	LOR	TP153 SOIL 0.5-0.8 15/4/2025 SE281815.066	TP153 SOIL 1.0-1.3 15/4/2025 SE281815.067	TP153 SOIL 1.55-1.65 15/4/2025 SE281815.068	TP154 SOIL 0.0-0.15 15/4/2025 SE281815.069	TP154 SOIL 0.55-0.65 15/4/2025 SE281815.070
% Moisture	%w/w	1	9.8	9.9	16.4	7.7	9.9

Moisture Content [AN002] Tested: 24/4/2025 (continued)

PARAMETER	UOM	LOR	TP155 SOIL 0.0-0.15 16/4/2025 SE281815.071	TP155 SOIL 0.2-0.5 16/4/2025 SE281815.072	TP156 SOIL 0.0-0.15 16/4/2025 SE281815.073	TP157 SOIL 0.0-0.15 16/4/2025 SE281815.074	TP158 SOIL 0.0-0.15 16/4/2025 SE281815.075
% Moisture	%w/w	1	3.4	4.1	6.7	7.1	8.3

PARAMETER	UOM	LOR	TP159 SOIL 0.0-0.15 16/4/2025 SE281815.076	TP160 SOIL 0.0-0.15 16/4/2025 SE281815.077	TP161 SOIL 0.0-0.15 16/4/2025 SE281815.078	TP162 SOIL 0.0-0.15 16/4/2025 SE281815.079	TP163 SOIL 0.0-0.15 16/4/2025 SE281815.080
% Moisture	%w/w	1	10.3	12.7	7.7	4.8	5.2

PARAMETER	UOM	LOR	TP164 SOIL 0.0-0.1 16/4/2025 SE281815.081	TP165 SOIL 0.0-0.1 16/4/2025 SE281815.082	DDS1 SOIL - 15/4/2025 SE281815.083	DDS2 SOIL - 16/4/2025 SE281815.084	DDS3 SOIL - 16/4/2025 SE281815.085
% Moisture	%w/w	1	8.6	12.7	6.3	8.9	14.7

PARAMETER	UOM	LOR	DDS4 SOIL - 14/4/2025 SE281815.086	DDS5 SOIL - 17/4/2025 SE281815.087	DDS6 SOIL - 17/4/2025 SE281815.088
% Moisture	%w/w	1	3.9	9.9	10.8

VOCs in Water [AN433] Tested: 28/4/2025

PARAMETER	UOM	LOR	RS1 WATER - 15/4/2025 SE281815.089	RS2 WATER - 16/4/2025 SE281815.090	RS3 WATER - 17/4/2025 SE281815.091
Benzene	µg/L	0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3	<3
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 28/4/2025

PARAMETER	UOM	LOR	RS1 WATER - 15/4/2025 SE281815.089	RS2 WATER - 16/4/2025 SE281815.090	RS3 WATER - 17/4/2025 SE281815.091
TRH C6-C9	µg/L	40	<40	<40	<40
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	50	<50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 24/4/2025

PARAMETER	UOM	LOR	RS1 WATER - 15/4/2025 SE281815.089	RS2 WATER - 16/4/2025 SE281815.090	RS3 WATER - 17/4/2025 SE281815.091
TRH C10-C14	µg/L	50	<50	<50	<50
TRH C15-C28	µg/L	200	<200	<200	<200
TRH C29-C36	µg/L	200	<200	<200	<200
TRH C37-C40	µg/L	200	<200	<200	<200
TRH >C10-C16	µg/L	60	<60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500
TRH C10-C40	µg/L	320	<320	<320	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 24/4/2025

PARAMETER	UOM	LOR	RS1 WATER - 15/4/2025 SE281815.089	RS2 WATER - 16/4/2025 SE281815.090	RS3 WATER - 17/4/2025 SE281815.091
Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1

Metals in Water (Dissolved) by ICPOES [AN320] Tested: 28/4/2025

PARAMETER	UOM	LOR	RS1 WATER - 15/4/2025 SE281815.089	RS2 WATER - 16/4/2025 SE281815.090	RS3 WATER - 17/4/2025 SE281815.091
Arsenic, As	mg/L	0.02	<0.02	<0.02	<0.02
Cadmium, Cd	mg/L	0.001	<0.001	<0.001	<0.001
Chromium, Cr	mg/L	0.005	<0.005	<0.005	<0.005
Copper, Cu	mg/L	0.005	<0.005	<0.005	<0.005
Lead, Pb	mg/L	0.02	<0.02	<0.02	<0.02
Nickel, Ni	mg/L	0.005	<0.005	<0.005	<0.005
Zinc, Zn	mg/L	0.01	<0.01	<0.01	<0.01

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 28/4/2025

PARAMETER	UOM	LOR	RS1 WATER - 15/4/2025 SE281815.089	RS2 WATER - 16/4/2025 SE281815.090	RS3 WATER - 17/4/2025 SE281815.091
Mercury	mg/L	0.0001	<0.0001	<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.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN122	Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g.
AN122	The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100. ESP can be used to categorise the sodicity of the soil as below: ESP < 6% non-sodic ESP 6-15% sodic ESP >15% strongly sodic Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.-
AN295	For Soil, a 1:10 NaOH extraction is made and analysed after 16 hours. The soil extract or water sample is distilled in a phosphoric acid stream. Phenolic compounds in the distillate react with a reagent stream of potassium hexacyanoferrate(III) and 4-Amino-2,3-dimethyl-3-pryazolin-5-one in an alkaline medium to form a coloured complex which is analysed spectrophotometrically onboard a continuous flow analyser.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
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
AN320	Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components.
AN320	Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). 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.

FOOTNOTES

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

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

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

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

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

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

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

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

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

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STATEMENT OF QA/QC PERFORMANCE

SE281815 R0

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SGS Reference	**SE281815 R0**
Date Received	22 Apr 2025
Date Reported	30 Apr 2025

COMMENTS

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

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

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

Extraction Date	PAH (Polynuclear Aromatic Hydrocarbons) in Water	2 items
	pH in soil (1:5)	27 items
	TRH (Total Recoverable Hydrocarbons) in Water	2 items
Analysis Date	Moisture Content	19 items
	Total Phenolics in Soil	1 item
	VOC's in Soil	16 items
	VOCs in Water	1 item
	Volatile Petroleum Hydrocarbons in Soil	28 items
	Volatile Petroleum Hydrocarbons in Water	2 items
Matrix Spike	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	2 items
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item

SAMPLE SUMMARY

Sample counts by matrix	91 Soil, 3 Water	Type of documentation received	COC
Date documentation received	23/4/2025@11:49an	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.4°C
Sample container provider	SGS	Turnaround time requested	Next Day/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

SE281815 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP104	SE281815.004	LB345453	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP105	SE281815.006	LB345453	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP106	SE281815.008	LB345453	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP108	SE281815.011	LB345453	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP109	SE281815.012	LB345453	16 Apr 2025	22 Apr 2025	14 May 2025	29 Apr 2025	14 May 2025	30 Apr 2025
TP111	SE281815.014	LB345453	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP111	SE281815.015	LB345453	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP113	SE281815.017	LB345453	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP114	SE281815.018	LB345453	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP115	SE281815.019	LB345453	16 Apr 2025	22 Apr 2025	14 May 2025	29 Apr 2025	14 May 2025	30 Apr 2025
TP117	SE281815.021	LB345453	16 Apr 2025	22 Apr 2025	14 May 2025	29 Apr 2025	14 May 2025	30 Apr 2025
TP120	SE281815.024	LB345453	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP123	SE281815.027	LB345453	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP123	SE281815.028	LB345453	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP124	SE281815.030	LB345453	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP127	SE281815.033	LB345453	16 Apr 2025	22 Apr 2025	14 May 2025	29 Apr 2025	14 May 2025	30 Apr 2025
TP130	SE281815.036	LB345453	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP131	SE281815.038	LB345453	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP133	SE281815.040	LB345453	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP139	SE281815.046	LB345453	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP141	SE281815.048	LB345453	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP143	SE281815.050	LB345453	16 Apr 2025	22 Apr 2025	14 May 2025	29 Apr 2025	14 May 2025	30 Apr 2025
TP145	SE281815.052	LB345454	16 Apr 2025	22 Apr 2025	14 May 2025	29 Apr 2025	14 May 2025	30 Apr 2025
TP148	SE281815.055	LB345454	16 Apr 2025	22 Apr 2025	14 May 2025	29 Apr 2025	14 May 2025	30 Apr 2025
TP148	SE281815.056	LB345454	16 Apr 2025	22 Apr 2025	14 May 2025	29 Apr 2025	14 May 2025	30 Apr 2025
TP149	SE281815.057	LB345454	16 Apr 2025	22 Apr 2025	14 May 2025	29 Apr 2025	14 May 2025	30 Apr 2025
TP150	SE281815.058	LB345454	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP150	SE281815.059	LB345454	17 Apr 2025	22 Apr 2025	15 May 2025	29 Apr 2025	15 May 2025	30 Apr 2025
TP151	SE281815.060	LB345454	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP151	SE281815.061	LB345454	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP151	SE281815.062	LB345454	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP152	SE281815.063	LB345454	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP152	SE281815.064	LB345454	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP153	SE281815.065	LB345454	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP153	SE281815.067	LB345454	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP154	SE281815.069	LB345454	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP154	SE281815.070	LB345454	15 Apr 2025	22 Apr 2025	13 May 2025	29 Apr 2025	13 May 2025	30 Apr 2025
TP155	SE281815.071	LB345454	16 Apr 2025	22 Apr 2025	14 May 2025	29 Apr 2025	14 May 2025	30 Apr 2025
TP155	SE281815.072	LB345454	16 Apr 2025	22 Apr 2025	14 May 2025	29 Apr 2025	14 May 2025	30 Apr 2025
TP165	SE281815.082	LB345454	16 Apr 2025	22 Apr 2025	14 May 2025	29 Apr 2025	14 May 2025	30 Apr 2025

Mercury (dissolved) in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE281815.089	LB345322	15 Apr 2025	22 Apr 2025	13 May 2025	28 Apr 2025	13 May 2025	29 Apr 2025
RS2	SE281815.090	LB345322	16 Apr 2025	22 Apr 2025	14 May 2025	28 Apr 2025	14 May 2025	29 Apr 2025
RS3	SE281815.091	LB345322	17 Apr 2025	22 Apr 2025	15 May 2025	28 Apr 2025	15 May 2025	29 Apr 2025

Mercury in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP101	SE281815.001	LB345275	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP102	SE281815.002	LB345275	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP103	SE281815.003	LB345275	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP104	SE281815.004	LB345275	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP105	SE281815.005	LB345275	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP105	SE281815.006	LB345275	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP106	SE281815.007	LB345275	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP106	SE281815.008	LB345275	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP107	SE281815.009	LB345275	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP108	SE281815.010	LB345275	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP108	SE281815.011	LB345275	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP109	SE281815.012	LB345275	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

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Mercury in Soil (continued) — **Method: ME-(AU)-[ENV]AN312**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP110	SE281815.013	LB345275	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP111	SE281815.014	LB345275	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP111	SE281815.015	LB345275	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP112	SE281815.016	LB345275	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP114	SE281815.018	LB345275	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP115	SE281815.019	LB345275	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP116	SE281815.020	LB345277	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP117	SE281815.021	LB345277	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP118	SE281815.022	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP119	SE281815.023	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP120	SE281815.024	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP121	SE281815.025	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP122	SE281815.026	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP123	SE281815.027	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP123	SE281815.028	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP124	SE281815.029	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP124	SE281815.030	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP125	SE281815.031	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP126	SE281815.032	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP127	SE281815.033	LB345277	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP128	SE281815.034	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP129	SE281815.035	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP130	SE281815.036	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP131	SE281815.037	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP131	SE281815.038	LB345277	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP132	SE281815.039	LB345278	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP133	SE281815.040	LB345278	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP134	SE281815.041	LB345278	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP135	SE281815.042	LB345278	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP136	SE281815.043	LB345278	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP137	SE281815.044	LB345278	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP138	SE281815.045	LB345278	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP139	SE281815.046	LB345278	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP140	SE281815.047	LB345278	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP141	SE281815.048	LB345278	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP142	SE281815.049	LB345278	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP143	SE281815.050	LB345278	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP144	SE281815.051	LB345278	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP145	SE281815.052	LB345278	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP146	SE281815.053	LB345278	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP147	SE281815.054	LB345278	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP148	SE281815.055	LB345278	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP148	SE281815.056	LB345278	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP149	SE281815.057	LB345278	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP150	SE281815.058	LB345279	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP150	SE281815.059	LB345279	17 Apr 2025	22 Apr 2025	15 May 2025	24 Apr 2025	15 May 2025	30 Apr 2025
TP151	SE281815.060	LB345279	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP151	SE281815.061	LB345279	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP151	SE281815.062	LB345279	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP152	SE281815.063	LB345279	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP152	SE281815.064	LB345279	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP153	SE281815.065	LB345279	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP153	SE281815.066	LB345279	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP153	SE281815.067	LB345279	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP153	SE281815.068	LB345279	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP154	SE281815.069	LB345279	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP154	SE281815.070	LB345279	15 Apr 2025	22 Apr 2025	13 May 2025	24 Apr 2025	13 May 2025	30 Apr 2025
TP155	SE281815.071	LB345279	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP155	SE281815.072	LB345279	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP156	SE281815.073	LB345279	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025

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Mercury in Soil (continued) — **Method: ME-(AU)-[ENV]AN312**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP157	SE281815.074	LB345279	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP158	SE281815.075	LB345279	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP159	SE281815.076	LB345279	16 Apr 2025	22 Apr 2025	14 May 2025	24 Apr 2025	14 May 2025	30 Apr 2025
TP160	SE281815.077	LB345437	16 Apr 2025	22 Apr 2025	14 May 2025	28 Apr 2025	14 May 2025	30 Apr 2025
TP161	SE281815.078	LB345437	16 Apr 2025	22 Apr 2025	14 May 2025	28 Apr 2025	14 May 2025	30 Apr 2025
TP162	SE281815.079	LB345437	16 Apr 2025	22 Apr 2025	14 May 2025	28 Apr 2025	14 May 2025	30 Apr 2025
TP163	SE281815.080	LB345437	16 Apr 2025	22 Apr 2025	14 May 2025	28 Apr 2025	14 May 2025	30 Apr 2025
TP164	SE281815.081	LB345437	16 Apr 2025	22 Apr 2025	14 May 2025	28 Apr 2025	14 May 2025	30 Apr 2025
TP165	SE281815.082	LB345437	16 Apr 2025	22 Apr 2025	14 May 2025	28 Apr 2025	14 May 2025	30 Apr 2025
DDS1	SE281815.083	LB345437	15 Apr 2025	22 Apr 2025	13 May 2025	28 Apr 2025	13 May 2025	30 Apr 2025
DDS2	SE281815.084	LB345437	16 Apr 2025	22 Apr 2025	14 May 2025	28 Apr 2025	14 May 2025	30 Apr 2025
DDS3	SE281815.085	LB345437	16 Apr 2025	22 Apr 2025	14 May 2025	28 Apr 2025	14 May 2025	30 Apr 2025
DDS4	SE281815.086	LB345437	14 Apr 2025	22 Apr 2025	12 May 2025	28 Apr 2025	12 May 2025	30 Apr 2025
DDS5	SE281815.087	LB345437	17 Apr 2025	22 Apr 2025	15 May 2025	28 Apr 2025	15 May 2025	30 Apr 2025
DDS6	SE281815.088	LB345437	17 Apr 2025	22 Apr 2025	15 May 2025	28 Apr 2025	15 May 2025	30 Apr 2025

Metals in Water (Dissolved) by ICPOES — **Method: ME-(AU)-[ENV]AN320**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE281815.089	LB345415	15 Apr 2025	22 Apr 2025	12 Oct 2025	28 Apr 2025	12 Oct 2025	30 Apr 2025
RS2	SE281815.090	LB345415	16 Apr 2025	22 Apr 2025	13 Oct 2025	28 Apr 2025	13 Oct 2025	30 Apr 2025
RS3	SE281815.091	LB345415	17 Apr 2025	22 Apr 2025	14 Oct 2025	28 Apr 2025	14 Oct 2025	30 Apr 2025

Moisture Content — **Method: ME-(AU)-[ENV]AN002**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP101	SE281815.001	LB345286	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP102	SE281815.002	LB345286	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP103	SE281815.003	LB345286	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP104	SE281815.004	LB345286	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP105	SE281815.005	LB345286	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP105	SE281815.006	LB345286	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP106	SE281815.007	LB345286	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP106	SE281815.008	LB345286	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP107	SE281815.009	LB345286	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP108	SE281815.010	LB345286	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP108	SE281815.011	LB345286	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP109	SE281815.012	LB345286	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP110	SE281815.013	LB345286	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP111	SE281815.014	LB345286	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP111	SE281815.015	LB345286	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP112	SE281815.016	LB345286	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP113	SE281815.017	LB345286	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP114	SE281815.018	LB345286	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP115	SE281815.019	LB345286	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP116	SE281815.020	LB345287	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP117	SE281815.021	LB345287	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP118	SE281815.022	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP119	SE281815.023	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP120	SE281815.024	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP121	SE281815.025	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP122	SE281815.026	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP123	SE281815.027	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP123	SE281815.028	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP124	SE281815.029	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP124	SE281815.030	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP125	SE281815.031	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP126	SE281815.032	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP127	SE281815.033	LB345287	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP128	SE281815.034	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP129	SE281815.035	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP130	SE281815.036	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP131	SE281815.037	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Moisture Content (continued) — **Method: ME-(AU)-[ENV]AN002**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP131	SE281815.038	LB345287	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP132	SE281815.039	LB345288	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP133	SE281815.040	LB345288	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP134	SE281815.041	LB345288	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP135	SE281815.042	LB345288	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP136	SE281815.043	LB345288	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP137	SE281815.044	LB345288	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP138	SE281815.045	LB345288	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP139	SE281815.046	LB345288	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP140	SE281815.047	LB345288	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP141	SE281815.048	LB345288	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP142	SE281815.049	LB345288	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP143	SE281815.050	LB345288	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP144	SE281815.051	LB345288	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP145	SE281815.052	LB345288	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP146	SE281815.053	LB345288	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP147	SE281815.054	LB345288	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP148	SE281815.055	LB345288	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP148	SE281815.056	LB345288	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP149	SE281815.057	LB345288	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	29 Apr 2025
TP150	SE281815.058	LB345289	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP150	SE281815.059	LB345289	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP151	SE281815.060	LB345289	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP151	SE281815.061	LB345289	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP151	SE281815.062	LB345289	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP152	SE281815.063	LB345289	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP152	SE281815.064	LB345289	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP153	SE281815.065	LB345289	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP153	SE281815.066	LB345289	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP153	SE281815.067	LB345289	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP153	SE281815.068	LB345289	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP154	SE281815.069	LB345289	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP154	SE281815.070	LB345289	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP155	SE281815.071	LB345289	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP155	SE281815.072	LB345289	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP156	SE281815.073	LB345289	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP157	SE281815.074	LB345289	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP158	SE281815.075	LB345289	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP159	SE281815.076	LB345289	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP160	SE281815.077	LB345424	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	03 May 2025	30 Apr 2025
TP161	SE281815.078	LB345424	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	03 May 2025	30 Apr 2025
TP162	SE281815.079	LB345424	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	03 May 2025	30 Apr 2025
TP163	SE281815.080	LB345424	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	03 May 2025	30 Apr 2025
TP164	SE281815.081	LB345424	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	03 May 2025	30 Apr 2025
TP165	SE281815.082	LB345424	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	03 May 2025	30 Apr 2025
DDS1	SE281815.083	LB345424	15 Apr 2025	22 Apr 2025	29 Apr 2025	28 Apr 2025	03 May 2025	30 Apr 2025
DDS2	SE281815.084	LB345424	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	03 May 2025	30 Apr 2025
DDS3	SE281815.085	LB345424	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	03 May 2025	30 Apr 2025
DDS4	SE281815.086	LB345424	14 Apr 2025	22 Apr 2025	28 Apr 2025	28 Apr 2025	03 May 2025	30 Apr 2025
DDS5	SE281815.087	LB345424	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	03 May 2025	30 Apr 2025
DDS6	SE281815.088	LB345424	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	03 May 2025	30 Apr 2025

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP101	SE281815.001	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP102	SE281815.002	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP103	SE281815.003	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP104	SE281815.004	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP105	SE281815.005	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP105	SE281815.006	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP106	SE281815.007	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP106	SE281815.008	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP107	SE281815.009	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP108	SE281815.010	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP108	SE281815.011	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP109	SE281815.012	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP110	SE281815.013	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP111	SE281815.014	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP111	SE281815.015	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP112	SE281815.016	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP113	SE281815.017	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP114	SE281815.018	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP115	SE281815.019	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP116	SE281815.020	LB345201	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP117	SE281815.021	LB345201	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP118	SE281815.022	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP119	SE281815.023	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP120	SE281815.024	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP121	SE281815.025	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP122	SE281815.026	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP123	SE281815.027	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP123	SE281815.028	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP124	SE281815.029	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP124	SE281815.030	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP125	SE281815.031	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP126	SE281815.032	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP127	SE281815.033	LB345201	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP128	SE281815.034	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP129	SE281815.035	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP130	SE281815.036	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP131	SE281815.037	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP131	SE281815.038	LB345201	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP132	SE281815.039	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP133	SE281815.040	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP134	SE281815.041	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP135	SE281815.042	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP136	SE281815.043	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP137	SE281815.044	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP138	SE281815.045	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP139	SE281815.046	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP140	SE281815.047	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP141	SE281815.048	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP142	SE281815.049	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP143	SE281815.050	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP144	SE281815.051	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP145	SE281815.052	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP146	SE281815.053	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP147	SE281815.054	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP148	SE281815.055	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP148	SE281815.056	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP149	SE281815.057	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP150	SE281815.058	LB345205	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP150	SE281815.059	LB345205	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.060	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.061	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.062	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP152	SE281815.063	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP152	SE281815.064	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.065	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.066	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP153	SE281815.067	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.068	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP154	SE281815.069	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP154	SE281815.070	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP155	SE281815.071	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP155	SE281815.072	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP156	SE281815.073	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP157	SE281815.074	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP158	SE281815.075	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP159	SE281815.076	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP160	SE281815.077	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP161	SE281815.078	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP162	SE281815.079	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP163	SE281815.080	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP164	SE281815.081	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP165	SE281815.082	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS1	SE281815.083	LB345370	15 Apr 2025	22 Apr 2025	29 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS2	SE281815.084	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS3	SE281815.085	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS4	SE281815.086	LB345370	14 Apr 2025	22 Apr 2025	28 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS5	SE281815.087	LB345370	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS6	SE281815.088	LB345370	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP101	SE281815.001	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP102	SE281815.002	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP103	SE281815.003	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP104	SE281815.004	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP105	SE281815.005	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP105	SE281815.006	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP106	SE281815.007	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP106	SE281815.008	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP107	SE281815.009	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP108	SE281815.010	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP108	SE281815.011	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP109	SE281815.012	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP110	SE281815.013	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP111	SE281815.014	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP111	SE281815.015	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP112	SE281815.016	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP113	SE281815.017	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP114	SE281815.018	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP115	SE281815.019	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP130	SE281815.036	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP132	SE281815.039	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP133	SE281815.040	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP134	SE281815.041	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP135	SE281815.042	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP136	SE281815.043	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP137	SE281815.044	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP138	SE281815.045	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP139	SE281815.046	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP140	SE281815.047	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP141	SE281815.048	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP142	SE281815.049	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP143	SE281815.050	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP144	SE281815.051	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP145	SE281815.052	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP146	SE281815.053	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP147	SE281815.054	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP148	SE281815.055	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP148	SE281815.056	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP149	SE281815.057	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP150	SE281815.058	LB345205	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP150	SE281815.059	LB345205	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.060	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.061	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.062	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP152	SE281815.063	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP152	SE281815.064	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.065	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.066	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.067	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.068	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP154	SE281815.069	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP154	SE281815.070	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP155	SE281815.071	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP155	SE281815.072	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP156	SE281815.073	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP157	SE281815.074	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP158	SE281815.075	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP159	SE281815.076	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP160	SE281815.077	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP161	SE281815.078	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP162	SE281815.079	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP163	SE281815.080	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP164	SE281815.081	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP165	SE281815.082	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS1	SE281815.083	LB345370	15 Apr 2025	22 Apr 2025	29 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS2	SE281815.084	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS3	SE281815.085	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS4	SE281815.086	LB345370	14 Apr 2025	22 Apr 2025	28 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS5	SE281815.087	LB345370	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS6	SE281815.088	LB345370	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP101	SE281815.001	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP102	SE281815.002	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP103	SE281815.003	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP104	SE281815.004	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP105	SE281815.005	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP105	SE281815.006	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP106	SE281815.007	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP106	SE281815.008	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP107	SE281815.009	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP108	SE281815.010	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP108	SE281815.011	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP109	SE281815.012	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP110	SE281815.013	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP111	SE281815.014	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP111	SE281815.015	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP112	SE281815.016	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP113	SE281815.017	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP114	SE281815.018	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP115	SE281815.019	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP130	SE281815.036	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP132	SE281815.039	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP133	SE281815.040	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025

HOLDING TIME SUMMARY

SE281815 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP134	SE281815.041	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP135	SE281815.042	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP136	SE281815.043	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP137	SE281815.044	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP138	SE281815.045	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP139	SE281815.046	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP140	SE281815.047	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP141	SE281815.048	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP142	SE281815.049	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP143	SE281815.050	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP144	SE281815.051	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP145	SE281815.052	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP146	SE281815.053	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP147	SE281815.054	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP148	SE281815.055	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP148	SE281815.056	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP149	SE281815.057	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP150	SE281815.058	LB345205	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP150	SE281815.059	LB345205	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.060	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.061	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.062	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP152	SE281815.063	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP152	SE281815.064	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.065	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.066	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.067	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.068	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP154	SE281815.069	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP154	SE281815.070	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP155	SE281815.071	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP155	SE281815.072	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP156	SE281815.073	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP157	SE281815.074	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP158	SE281815.075	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP159	SE281815.076	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP160	SE281815.077	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP161	SE281815.078	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP162	SE281815.079	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP163	SE281815.080	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP164	SE281815.081	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP165	SE281815.082	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS1	SE281815.083	LB345370	15 Apr 2025	22 Apr 2025	29 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS2	SE281815.084	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS3	SE281815.085	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS4	SE281815.086	LB345370	14 Apr 2025	22 Apr 2025	28 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS5	SE281815.087	LB345370	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS6	SE281815.088	LB345370	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE281815.089	LB345131	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	03 Jun 2025	28 Apr 2025
RS2	SE281815.090	LB345131	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	03 Jun 2025	28 Apr 2025
RS3	SE281815.091	LB345131	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	03 Jun 2025	28 Apr 2025

PCBs in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP101	SE281815.001	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP102	SE281815.002	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP103	SE281815.003	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP104	SE281815.004	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PCBs in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP105	SE281815.005	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP105	SE281815.006	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP106	SE281815.007	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP106	SE281815.008	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP107	SE281815.009	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP108	SE281815.010	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP108	SE281815.011	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP109	SE281815.012	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP110	SE281815.013	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP111	SE281815.014	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP111	SE281815.015	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP112	SE281815.016	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP113	SE281815.017	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP114	SE281815.018	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP115	SE281815.019	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP130	SE281815.036	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP132	SE281815.039	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP133	SE281815.040	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP134	SE281815.041	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP135	SE281815.042	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP136	SE281815.043	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP137	SE281815.044	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP138	SE281815.045	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP139	SE281815.046	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP140	SE281815.047	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP141	SE281815.048	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP142	SE281815.049	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP143	SE281815.050	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP144	SE281815.051	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP145	SE281815.052	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP146	SE281815.053	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP147	SE281815.054	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP148	SE281815.055	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP148	SE281815.056	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP149	SE281815.057	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP150	SE281815.058	LB345205	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP150	SE281815.059	LB345205	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.060	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.061	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.062	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP152	SE281815.063	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP152	SE281815.064	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.065	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.066	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.067	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.068	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP154	SE281815.069	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP154	SE281815.070	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP155	SE281815.071	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP155	SE281815.072	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP156	SE281815.073	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP157	SE281815.074	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP158	SE281815.075	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP159	SE281815.076	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP160	SE281815.077	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP161	SE281815.078	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP162	SE281815.079	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP163	SE281815.080	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP164	SE281815.081	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP165	SE281815.082	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025

HOLDING TIME SUMMARY

SE281815 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PCBs in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
DDS1	SE281815.083	LB345370	15 Apr 2025	22 Apr 2025	29 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS2	SE281815.084	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS3	SE281815.085	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS4	SE281815.086	LB345370	14 Apr 2025	22 Apr 2025	28 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS5	SE281815.087	LB345370	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS6	SE281815.088	LB345370	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP104	SE281815.004	LB345224	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP105	SE281815.006	LB345224	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP106	SE281815.008	LB345224	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP108	SE281815.011	LB345224	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP109	SE281815.012	LB345224	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP111	SE281815.014	LB345224	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP111	SE281815.015	LB345224	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP113	SE281815.017	LB345224	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP114	SE281815.018	LB345224	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP115	SE281815.019	LB345224	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP117	SE281815.021	LB345224	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP120	SE281815.024	LB345224	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP123	SE281815.027	LB345224	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP123	SE281815.028	LB345224	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP124	SE281815.030	LB345224	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP127	SE281815.033	LB345224	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP130	SE281815.036	LB345224	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP131	SE281815.038	LB345224	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP133	SE281815.040	LB345224	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP139	SE281815.046	LB345224	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP141	SE281815.048	LB345225	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP143	SE281815.050	LB345225	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP145	SE281815.052	LB345225	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP148	SE281815.055	LB345225	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP148	SE281815.056	LB345225	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP149	SE281815.057	LB345225	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP150	SE281815.058	LB345225	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP150	SE281815.059	LB345225	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	25 Apr 2025	24 Apr 2025
TP151	SE281815.060	LB345225	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP151	SE281815.061	LB345225	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP151	SE281815.062	LB345225	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP152	SE281815.063	LB345225	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP152	SE281815.064	LB345225	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP153	SE281815.065	LB345225	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP153	SE281815.067	LB345225	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP154	SE281815.069	LB345225	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP154	SE281815.070	LB345225	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP155	SE281815.071	LB345225	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP155	SE281815.072	LB345225	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025
TP165	SE281815.082	LB345225	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	25 Apr 2025	24 Apr 2025

Total Phenolics in Soil

Method: ME-(AU)-[ENV]AN295

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP107	SE281815.009	LB345471	15 Apr 2025	22 Apr 2025	29 Apr 2025	29 Apr 2025	29 Apr 2025	30 Apr 2025†
TP143	SE281815.050	LB345471	16 Apr 2025	22 Apr 2025	30 Apr 2025	29 Apr 2025	30 Apr 2025	30 Apr 2025
TP159	SE281815.076	LB345471	16 Apr 2025	22 Apr 2025	30 Apr 2025	29 Apr 2025	30 Apr 2025	30 Apr 2025
TP160	SE281815.077	LB345471	16 Apr 2025	22 Apr 2025	30 Apr 2025	29 Apr 2025	30 Apr 2025	30 Apr 2025

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

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP101	SE281815.001	LB345267	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP102	SE281815.002	LB345267	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued) — **Method: ME-(AU)-[ENV]AN040/AN320**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP103	SE281815.003	LB345267	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP104	SE281815.004	LB345267	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP105	SE281815.005	LB345267	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP105	SE281815.006	LB345267	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP106	SE281815.007	LB345267	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP106	SE281815.008	LB345267	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP107	SE281815.009	LB345267	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP108	SE281815.010	LB345267	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP108	SE281815.011	LB345267	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP109	SE281815.012	LB345267	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP110	SE281815.013	LB345267	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP111	SE281815.014	LB345267	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP111	SE281815.015	LB345267	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP112	SE281815.016	LB345267	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP114	SE281815.018	LB345267	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP115	SE281815.019	LB345267	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP116	SE281815.020	LB345269	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP117	SE281815.021	LB345269	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP118	SE281815.022	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP119	SE281815.023	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP120	SE281815.024	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP121	SE281815.025	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP122	SE281815.026	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP123	SE281815.027	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP123	SE281815.028	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP124	SE281815.029	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP124	SE281815.030	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP125	SE281815.031	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP126	SE281815.032	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP127	SE281815.033	LB345269	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP128	SE281815.034	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP129	SE281815.035	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP130	SE281815.036	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP131	SE281815.037	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP131	SE281815.038	LB345269	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP132	SE281815.039	LB345270	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP133	SE281815.040	LB345270	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP134	SE281815.041	LB345270	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP135	SE281815.042	LB345270	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP136	SE281815.043	LB345270	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP137	SE281815.044	LB345270	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP138	SE281815.045	LB345270	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP139	SE281815.046	LB345270	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP140	SE281815.047	LB345270	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP141	SE281815.048	LB345270	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP142	SE281815.049	LB345270	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP143	SE281815.050	LB345270	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP144	SE281815.051	LB345270	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP145	SE281815.052	LB345270	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP146	SE281815.053	LB345270	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP147	SE281815.054	LB345270	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP148	SE281815.055	LB345270	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP148	SE281815.056	LB345270	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP149	SE281815.057	LB345270	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP150	SE281815.058	LB345271	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP150	SE281815.059	LB345271	17 Apr 2025	22 Apr 2025	14 Oct 2025	24 Apr 2025	14 Oct 2025	30 Apr 2025
TP151	SE281815.060	LB345271	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP151	SE281815.061	LB345271	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP151	SE281815.062	LB345271	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP152	SE281815.063	LB345271	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

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

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP152	SE281815.064	LB345271	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP153	SE281815.065	LB345271	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP153	SE281815.066	LB345271	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP153	SE281815.067	LB345271	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP153	SE281815.068	LB345271	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP154	SE281815.069	LB345271	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP154	SE281815.070	LB345271	15 Apr 2025	22 Apr 2025	12 Oct 2025	24 Apr 2025	12 Oct 2025	30 Apr 2025
TP155	SE281815.071	LB345271	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP155	SE281815.072	LB345271	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP156	SE281815.073	LB345271	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP157	SE281815.074	LB345271	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP158	SE281815.075	LB345271	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP159	SE281815.076	LB345271	16 Apr 2025	22 Apr 2025	13 Oct 2025	24 Apr 2025	13 Oct 2025	30 Apr 2025
TP160	SE281815.077	LB345430	16 Apr 2025	22 Apr 2025	13 Oct 2025	28 Apr 2025	13 Oct 2025	30 Apr 2025
TP161	SE281815.078	LB345430	16 Apr 2025	22 Apr 2025	13 Oct 2025	28 Apr 2025	13 Oct 2025	30 Apr 2025
TP162	SE281815.079	LB345430	16 Apr 2025	22 Apr 2025	13 Oct 2025	28 Apr 2025	13 Oct 2025	30 Apr 2025
TP163	SE281815.080	LB345430	16 Apr 2025	22 Apr 2025	13 Oct 2025	28 Apr 2025	13 Oct 2025	30 Apr 2025
TP164	SE281815.081	LB345430	16 Apr 2025	22 Apr 2025	13 Oct 2025	28 Apr 2025	13 Oct 2025	30 Apr 2025
TP165	SE281815.082	LB345430	16 Apr 2025	22 Apr 2025	13 Oct 2025	28 Apr 2025	13 Oct 2025	30 Apr 2025
DDS1	SE281815.083	LB345430	15 Apr 2025	22 Apr 2025	12 Oct 2025	28 Apr 2025	12 Oct 2025	30 Apr 2025
DDS2	SE281815.084	LB345430	16 Apr 2025	22 Apr 2025	13 Oct 2025	28 Apr 2025	13 Oct 2025	30 Apr 2025
DDS3	SE281815.085	LB345430	16 Apr 2025	22 Apr 2025	13 Oct 2025	28 Apr 2025	13 Oct 2025	30 Apr 2025
DDS4	SE281815.086	LB345430	14 Apr 2025	22 Apr 2025	11 Oct 2025	28 Apr 2025	11 Oct 2025	30 Apr 2025
DDS5	SE281815.087	LB345430	17 Apr 2025	22 Apr 2025	14 Oct 2025	28 Apr 2025	14 Oct 2025	30 Apr 2025
DDS6	SE281815.088	LB345430	17 Apr 2025	22 Apr 2025	14 Oct 2025	28 Apr 2025	14 Oct 2025	30 Apr 2025

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP101	SE281815.001	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP102	SE281815.002	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP103	SE281815.003	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP104	SE281815.004	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP105	SE281815.005	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP105	SE281815.006	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP106	SE281815.007	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP106	SE281815.008	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP107	SE281815.009	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP108	SE281815.010	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP108	SE281815.011	LB345199	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP109	SE281815.012	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP110	SE281815.013	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP111	SE281815.014	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP111	SE281815.015	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP112	SE281815.016	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP113	SE281815.017	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP114	SE281815.018	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP115	SE281815.019	LB345199	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP130	SE281815.036	LB345199	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP132	SE281815.039	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP133	SE281815.040	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP134	SE281815.041	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP135	SE281815.042	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP136	SE281815.043	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP137	SE281815.044	LB345204	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP138	SE281815.045	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP139	SE281815.046	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP140	SE281815.047	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP141	SE281815.048	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP142	SE281815.049	LB345204	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP143	SE281815.050	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP144	SE281815.051	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP145	SE281815.052	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP146	SE281815.053	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP147	SE281815.054	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP148	SE281815.055	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP148	SE281815.056	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP149	SE281815.057	LB345204	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP150	SE281815.058	LB345205	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP150	SE281815.059	LB345205	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.060	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.061	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP151	SE281815.062	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP152	SE281815.063	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP152	SE281815.064	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.065	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.066	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.067	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP153	SE281815.068	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP154	SE281815.069	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP154	SE281815.070	LB345205	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP155	SE281815.071	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP155	SE281815.072	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP156	SE281815.073	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP157	SE281815.074	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP158	SE281815.075	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP159	SE281815.076	LB345205	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	03 Jun 2025	30 Apr 2025
TP160	SE281815.077	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP161	SE281815.078	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP162	SE281815.079	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP163	SE281815.080	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP164	SE281815.081	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
TP165	SE281815.082	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS1	SE281815.083	LB345370	15 Apr 2025	22 Apr 2025	29 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS2	SE281815.084	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS3	SE281815.085	LB345370	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS4	SE281815.086	LB345370	14 Apr 2025	22 Apr 2025	28 Apr 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS5	SE281815.087	LB345370	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025
DDS6	SE281815.088	LB345370	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	07 Jun 2025	30 Apr 2025

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE281815.089	LB345131	15 Apr 2025	22 Apr 2025	22 Apr 2025	24 Apr 2025†	03 Jun 2025	28 Apr 2025
RS2	SE281815.090	LB345131	16 Apr 2025	22 Apr 2025	23 Apr 2025	24 Apr 2025†	03 Jun 2025	28 Apr 2025
RS3	SE281815.091	LB345131	17 Apr 2025	22 Apr 2025	24 Apr 2025	24 Apr 2025	03 Jun 2025	28 Apr 2025

VOC's in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP104	SE281815.004	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP107	SE281815.009	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP113	SE281815.017	LB345202	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	01 May 2025	30 Apr 2025
TP130	SE281815.036	LB345202	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	01 May 2025	30 Apr 2025
TP141	SE281815.048	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP142	SE281815.049	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP143	SE281815.050	LB345202	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	30 Apr 2025	30 Apr 2025
TP148	SE281815.055	LB345202	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	30 Apr 2025	30 Apr 2025
TP148	SE281815.056	LB345202	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	30 Apr 2025	30 Apr 2025
TP150	SE281815.058	LB345202	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	01 May 2025	30 Apr 2025
TP150	SE281815.059	LB345202	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	01 May 2025	30 Apr 2025
TP151	SE281815.060	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP151	SE281815.061	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP151	SE281815.062	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

VOC's in Soil (continued)

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP152	SE281815.063	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP152	SE281815.064	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP153	SE281815.065	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP153	SE281815.067	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP154	SE281815.069	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP154	SE281815.070	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP155	SE281815.071	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP155	SE281815.072	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP157	SE281815.074	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP158	SE281815.075	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP159	SE281815.076	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP160	SE281815.077	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP161	SE281815.078	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP162	SE281815.079	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP163	SE281815.080	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP164	SE281815.081	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP165	SE281815.082	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
DDS2	SE281815.084	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
DDS4	SE281815.086	LB345371	14 Apr 2025	22 Apr 2025	28 Apr 2025	28 Apr 2025	28 Apr 2025	30 Apr 2025†
DDS6	SE281815.088	LB345371	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	01 May 2025	30 Apr 2025
TS1	SE281815.092	LB345371	15 Apr 2025	22 Apr 2025	29 Apr 2025	28 Apr 2025	29 Apr 2025	30 Apr 2025†
TS2	SE281815.093	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TS3	SE281815.094	LB345371	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	01 May 2025	30 Apr 2025

VOCs in Water

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE281815.089	LB345327	15 Apr 2025	22 Apr 2025	29 Apr 2025	28 Apr 2025	29 Apr 2025	30 Apr 2025†
RS2	SE281815.090	LB345327	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
RS3	SE281815.091	LB345327	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	01 May 2025	30 Apr 2025

Volatile Petroleum Hydrocarbons in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP104	SE281815.004	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP107	SE281815.009	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP113	SE281815.017	LB345202	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	01 May 2025	30 Apr 2025
TP130	SE281815.036	LB345202	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	01 May 2025	30 Apr 2025
TP141	SE281815.048	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP142	SE281815.049	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP143	SE281815.050	LB345202	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	30 Apr 2025	30 Apr 2025
TP148	SE281815.055	LB345202	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	30 Apr 2025	30 Apr 2025
TP148	SE281815.056	LB345202	16 Apr 2025	22 Apr 2025	30 Apr 2025	24 Apr 2025	30 Apr 2025	30 Apr 2025
TP150	SE281815.058	LB345202	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	01 May 2025	30 Apr 2025
TP150	SE281815.059	LB345202	17 Apr 2025	22 Apr 2025	01 May 2025	24 Apr 2025	01 May 2025	30 Apr 2025
TP151	SE281815.060	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP151	SE281815.061	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP151	SE281815.062	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP152	SE281815.063	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP152	SE281815.064	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP153	SE281815.065	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP153	SE281815.067	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP154	SE281815.069	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP154	SE281815.070	LB345202	15 Apr 2025	22 Apr 2025	29 Apr 2025	24 Apr 2025	29 Apr 2025	30 Apr 2025†
TP155	SE281815.071	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP155	SE281815.072	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP157	SE281815.074	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP158	SE281815.075	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP159	SE281815.076	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP160	SE281815.077	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP161	SE281815.078	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP162	SE281815.079	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP163	SE281815.080	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025

HOLDING TIME SUMMARY

SE281815 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP164	SE281815.081	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TP165	SE281815.082	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
DDS2	SE281815.084	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
DDS4	SE281815.086	LB345371	14 Apr 2025	22 Apr 2025	28 Apr 2025	28 Apr 2025	28 Apr 2025	30 Apr 2025†
DDS6	SE281815.088	LB345371	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	01 May 2025	30 Apr 2025
TS1	SE281815.092	LB345371	15 Apr 2025	22 Apr 2025	29 Apr 2025	28 Apr 2025	29 Apr 2025	30 Apr 2025†
TS2	SE281815.093	LB345371	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
TS3	SE281815.094	LB345371	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	01 May 2025	30 Apr 2025

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
RS1	SE281815.089	LB345327	15 Apr 2025	22 Apr 2025	29 Apr 2025	28 Apr 2025	29 Apr 2025	30 Apr 2025†
RS2	SE281815.090	LB345327	16 Apr 2025	22 Apr 2025	30 Apr 2025	28 Apr 2025	30 Apr 2025	30 Apr 2025
RS3	SE281815.091	LB345327	17 Apr 2025	22 Apr 2025	01 May 2025	28 Apr 2025	01 May 2025	30 Apr 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	TP101	SE281815.001	%	60 - 130%	91
	TP102	SE281815.002	%	60 - 130%	93
	TP103	SE281815.003	%	60 - 130%	91
	TP104	SE281815.004	%	60 - 130%	91
	TP105	SE281815.005	%	60 - 130%	92
	TP105	SE281815.006	%	60 - 130%	93
	TP106	SE281815.007	%	60 - 130%	91
	TP106	SE281815.008	%	60 - 130%	92
	TP107	SE281815.009	%	60 - 130%	92
	TP108	SE281815.010	%	60 - 130%	90
	TP108	SE281815.011	%	60 - 130%	92
	TP109	SE281815.012	%	60 - 130%	93
	TP110	SE281815.013	%	60 - 130%	92
	TP111	SE281815.014	%	60 - 130%	94
	TP111	SE281815.015	%	60 - 130%	92
	TP112	SE281815.016	%	60 - 130%	91
	TP113	SE281815.017	%	60 - 130%	92
	TP114	SE281815.018	%	60 - 130%	93
	TP115	SE281815.019	%	60 - 130%	92
	TP116	SE281815.020	%	60 - 130%	91
	TP117	SE281815.021	%	60 - 130%	92
	TP118	SE281815.022	%	60 - 130%	93
	TP119	SE281815.023	%	60 - 130%	92
	TP120	SE281815.024	%	60 - 130%	94
	TP121	SE281815.025	%	60 - 130%	91
	TP122	SE281815.026	%	60 - 130%	93
	TP123	SE281815.027	%	60 - 130%	93
	TP123	SE281815.028	%	60 - 130%	96
	TP124	SE281815.029	%	60 - 130%	102
	TP124	SE281815.030	%	60 - 130%	90
	TP125	SE281815.031	%	60 - 130%	93
	TP126	SE281815.032	%	60 - 130%	93
	TP127	SE281815.033	%	60 - 130%	96
	TP128	SE281815.034	%	60 - 130%	96
	TP129	SE281815.035	%	60 - 130%	103
	TP130	SE281815.036	%	60 - 130%	92
	TP131	SE281815.037	%	60 - 130%	92
	TP131	SE281815.038	%	60 - 130%	98
	TP132	SE281815.039	%	60 - 130%	86
	TP133	SE281815.040	%	60 - 130%	93
	TP134	SE281815.041	%	60 - 130%	94
	TP135	SE281815.042	%	60 - 130%	96
	TP136	SE281815.043	%	60 - 130%	91
	TP137	SE281815.044	%	60 - 130%	93
	TP138	SE281815.045	%	60 - 130%	93
	TP139	SE281815.046	%	60 - 130%	87
	TP140	SE281815.047	%	60 - 130%	91
	TP141	SE281815.048	%	60 - 130%	91
	TP142	SE281815.049	%	60 - 130%	94
	TP143	SE281815.050	%	60 - 130%	90
	TP144	SE281815.051	%	60 - 130%	93
	TP145	SE281815.052	%	60 - 130%	98
	TP146	SE281815.053	%	60 - 130%	97
	TP147	SE281815.054	%	60 - 130%	93
	TP148	SE281815.055	%	60 - 130%	93
	TP148	SE281815.056	%	60 - 130%	94
	TP149	SE281815.057	%	60 - 130%	80
	TP150	SE281815.058	%	60 - 130%	95
	TP150	SE281815.059	%	60 - 130%	90
	TP151	SE281815.060	%	60 - 130%	89
	TP151	SE281815.061	%	60 - 130%	88

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 (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	TP151	SE281815.062	%	60 - 130%	92
	TP152	SE281815.063	%	60 - 130%	91
	TP152	SE281815.064	%	60 - 130%	92
	TP153	SE281815.065	%	60 - 130%	94
	TP153	SE281815.066	%	60 - 130%	94
	TP153	SE281815.067	%	60 - 130%	94
	TP153	SE281815.068	%	60 - 130%	93
	TP154	SE281815.069	%	60 - 130%	86
	TP154	SE281815.070	%	60 - 130%	93
	TP155	SE281815.071	%	60 - 130%	96
	TP155	SE281815.072	%	60 - 130%	93
	TP156	SE281815.073	%	60 - 130%	93
	TP157	SE281815.074	%	60 - 130%	92
	TP158	SE281815.075	%	60 - 130%	95
	TP159	SE281815.076	%	60 - 130%	97
	TP160	SE281815.077	%	60 - 130%	98
	TP161	SE281815.078	%	60 - 130%	99
	TP162	SE281815.079	%	60 - 130%	103
	TP163	SE281815.080	%	60 - 130%	96
	TP164	SE281815.081	%	60 - 130%	95
	TP165	SE281815.082	%	60 - 130%	100
	DDS1	SE281815.083	%	60 - 130%	98
	DDS2	SE281815.084	%	60 - 130%	99
	DDS3	SE281815.085	%	60 - 130%	100
	DDS4	SE281815.086	%	60 - 130%	104
	DDS5	SE281815.087	%	60 - 130%	99
	DDS6	SE281815.088	%	60 - 130%	104

OP Pesticides in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	TP104	SE281815.004	%	60 - 130%	91
	TP113	SE281815.017	%	60 - 130%	92
	TP130	SE281815.036	%	60 - 130%	93
	TP141	SE281815.048	%	60 - 130%	86
	TP142	SE281815.049	%	60 - 130%	89
	TP143	SE281815.050	%	60 - 130%	89
	TP148	SE281815.055	%	60 - 130%	89
	TP148	SE281815.056	%	60 - 130%	90
	TP151	SE281815.060	%	60 - 130%	84
	TP151	SE281815.061	%	60 - 130%	82
	TP151	SE281815.062	%	60 - 130%	87
	TP152	SE281815.063	%	60 - 130%	80
	TP152	SE281815.064	%	60 - 130%	87
	TP153	SE281815.065	%	60 - 130%	88
	TP153	SE281815.066	%	60 - 130%	87
	TP153	SE281815.067	%	60 - 130%	87
	TP154	SE281815.069	%	60 - 130%	83
	TP154	SE281815.070	%	60 - 130%	91
	TP155	SE281815.071	%	60 - 130%	94
	TP155	SE281815.072	%	60 - 130%	91
	TP157	SE281815.074	%	60 - 130%	90
	TP158	SE281815.075	%	60 - 130%	92
	TP159	SE281815.076	%	60 - 130%	95
	TP160	SE281815.077	%	60 - 130%	96
	TP161	SE281815.078	%	60 - 130%	91
	TP163	SE281815.080	%	60 - 130%	88
	TP164	SE281815.081	%	60 - 130%	89
	DDS2	SE281815.084	%	60 - 130%	93
	DDS4	SE281815.086	%	60 - 130%	100
	DDS6	SE281815.088	%	60 - 130%	100
d14-p-terphenyl (Surrogate)	TP104	SE281815.004	%	60 - 130%	90

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d14-p-terphenyl (Surrogate)	TP113	SE281815.017	%	60 - 130%	87
	TP130	SE281815.036	%	60 - 130%	91
	TP141	SE281815.048	%	60 - 130%	86
	TP142	SE281815.049	%	60 - 130%	87
	TP143	SE281815.050	%	60 - 130%	85
	TP148	SE281815.055	%	60 - 130%	89
	TP148	SE281815.056	%	60 - 130%	92
	TP151	SE281815.060	%	60 - 130%	85
	TP151	SE281815.061	%	60 - 130%	83
	TP151	SE281815.062	%	60 - 130%	90
	TP152	SE281815.063	%	60 - 130%	87
	TP152	SE281815.064	%	60 - 130%	85
	TP153	SE281815.065	%	60 - 130%	90
	TP153	SE281815.066	%	60 - 130%	90
	TP153	SE281815.067	%	60 - 130%	90
	TP154	SE281815.069	%	60 - 130%	80
	TP154	SE281815.070	%	60 - 130%	91
	TP155	SE281815.071	%	60 - 130%	93
	TP155	SE281815.072	%	60 - 130%	89
	TP157	SE281815.074	%	60 - 130%	90
	TP158	SE281815.075	%	60 - 130%	94
	TP159	SE281815.076	%	60 - 130%	94
	TP160	SE281815.077	%	60 - 130%	98
	TP161	SE281815.078	%	60 - 130%	98
	TP163	SE281815.080	%	60 - 130%	94
	TP164	SE281815.081	%	60 - 130%	95
	DDS2	SE281815.084	%	60 - 130%	94
	DDS4	SE281815.086	%	60 - 130%	91
	DDS6	SE281815.088	%	60 - 130%	100

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	TP104	SE281815.004	%	70 - 130%	91
	TP107	SE281815.009	%	70 - 130%	92
	TP113	SE281815.017	%	70 - 130%	92
	TP130	SE281815.036	%	70 - 130%	93
	TP141	SE281815.048	%	70 - 130%	86
	TP142	SE281815.049	%	70 - 130%	89
	TP143	SE281815.050	%	70 - 130%	89
	TP148	SE281815.055	%	70 - 130%	89
	TP148	SE281815.056	%	70 - 130%	90
	TP150	SE281815.058	%	70 - 130%	90
	TP150	SE281815.059	%	70 - 130%	83
	TP151	SE281815.060	%	70 - 130%	84
	TP151	SE281815.061	%	70 - 130%	82
	TP151	SE281815.062	%	70 - 130%	87
	TP152	SE281815.063	%	70 - 130%	80
	TP152	SE281815.064	%	70 - 130%	87
	TP153	SE281815.065	%	70 - 130%	88
	TP153	SE281815.067	%	70 - 130%	87
	TP154	SE281815.069	%	70 - 130%	83
	TP154	SE281815.070	%	70 - 130%	91
	TP155	SE281815.071	%	70 - 130%	94
	TP155	SE281815.072	%	70 - 130%	91
	TP157	SE281815.074	%	70 - 130%	90
	TP158	SE281815.075	%	70 - 130%	92
	TP159	SE281815.076	%	70 - 130%	95
	TP160	SE281815.077	%	70 - 130%	96
	TP161	SE281815.078	%	70 - 130%	91
	TP162	SE281815.079	%	70 - 130%	95
	TP163	SE281815.080	%	70 - 130%	88

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	TP164	SE281815.081	%	70 - 130%	89
	TP165	SE281815.082	%	70 - 130%	91
	DDS2	SE281815.084	%	70 - 130%	93
	DDS4	SE281815.086	%	70 - 130%	100
	DDS6	SE281815.088	%	70 - 130%	100
d14-p-terphenyl (Surrogate)	TP104	SE281815.004	%	70 - 130%	90
	TP107	SE281815.009	%	70 - 130%	90
	TP113	SE281815.017	%	70 - 130%	87
	TP130	SE281815.036	%	70 - 130%	91
	TP141	SE281815.048	%	70 - 130%	86
	TP142	SE281815.049	%	70 - 130%	87
	TP143	SE281815.050	%	70 - 130%	85
	TP148	SE281815.055	%	70 - 130%	89
	TP148	SE281815.056	%	70 - 130%	92
	TP150	SE281815.058	%	70 - 130%	93
	TP150	SE281815.059	%	70 - 130%	88
	TP151	SE281815.060	%	70 - 130%	85
	TP151	SE281815.061	%	70 - 130%	83
	TP151	SE281815.062	%	70 - 130%	90
	TP152	SE281815.063	%	70 - 130%	87
	TP152	SE281815.064	%	70 - 130%	85
	TP153	SE281815.065	%	70 - 130%	90
	TP153	SE281815.067	%	70 - 130%	90
	TP154	SE281815.069	%	70 - 130%	80
	TP154	SE281815.070	%	70 - 130%	91
	TP155	SE281815.071	%	70 - 130%	93
	TP155	SE281815.072	%	70 - 130%	89
	TP157	SE281815.074	%	70 - 130%	90
	TP158	SE281815.075	%	70 - 130%	94
	TP159	SE281815.076	%	70 - 130%	94
	TP160	SE281815.077	%	70 - 130%	98
	TP161	SE281815.078	%	70 - 130%	98
	TP162	SE281815.079	%	70 - 130%	101
	TP163	SE281815.080	%	70 - 130%	94
	TP164	SE281815.081	%	70 - 130%	95
	TP165	SE281815.082	%	70 - 130%	96
	DDS2	SE281815.084	%	70 - 130%	94
	DDS4	SE281815.086	%	70 - 130%	91
	DDS6	SE281815.088	%	70 - 130%	100
d5-nitrobenzene (Surrogate)	TP104	SE281815.004	%	70 - 130%	94
	TP107	SE281815.009	%	70 - 130%	89
	TP113	SE281815.017	%	70 - 130%	94
	TP130	SE281815.036	%	70 - 130%	94
	TP141	SE281815.048	%	70 - 130%	102
	TP142	SE281815.049	%	70 - 130%	107
	TP143	SE281815.050	%	70 - 130%	110
	TP148	SE281815.055	%	70 - 130%	110
	TP148	SE281815.056	%	70 - 130%	111
	TP150	SE281815.058	%	70 - 130%	109
	TP150	SE281815.059	%	70 - 130%	105
	TP151	SE281815.060	%	70 - 130%	101
	TP151	SE281815.061	%	70 - 130%	103
	TP151	SE281815.062	%	70 - 130%	108
	TP152	SE281815.063	%	70 - 130%	84
	TP152	SE281815.064	%	70 - 130%	86
	TP153	SE281815.065	%	70 - 130%	90
	TP153	SE281815.067	%	70 - 130%	87
	TP154	SE281815.069	%	70 - 130%	82
	TP154	SE281815.070	%	70 - 130%	90
	TP155	SE281815.071	%	70 - 130%	93
	TP155	SE281815.072	%	70 - 130%	93

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-nitrobenzene (Surrogate)	TP157	SE281815.074	%	70 - 130%	93
	TP158	SE281815.075	%	70 - 130%	94
	TP159	SE281815.076	%	70 - 130%	96
	TP160	SE281815.077	%	70 - 130%	103
	TP161	SE281815.078	%	70 - 130%	98
	TP162	SE281815.079	%	70 - 130%	102
	TP163	SE281815.080	%	70 - 130%	96
	TP164	SE281815.081	%	70 - 130%	96
	TP165	SE281815.082	%	70 - 130%	98
	DDS2	SE281815.084	%	70 - 130%	95
	DDS4	SE281815.086	%	70 - 130%	98
	DDS6	SE281815.088	%	70 - 130%	100

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	RS1	SE281815.089	%	40 - 130%	58
	RS2	SE281815.090	%	40 - 130%	69
	RS3	SE281815.091	%	40 - 130%	76
d14-p-terphenyl (Surrogate)	RS1	SE281815.089	%	40 - 130%	51
	RS2	SE281815.090	%	40 - 130%	63
	RS3	SE281815.091	%	40 - 130%	68
d5-nitrobenzene (Surrogate)	RS1	SE281815.089	%	40 - 130%	56
	RS2	SE281815.090	%	40 - 130%	66
	RS3	SE281815.091	%	40 - 130%	70

PCBs in Soil

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	TP104	SE281815.004	%	60 - 130%	91
	TP107	SE281815.009	%	60 - 130%	92
	TP113	SE281815.017	%	60 - 130%	92
	TP130	SE281815.036	%	60 - 130%	92
	TP141	SE281815.048	%	60 - 130%	91
	TP142	SE281815.049	%	60 - 130%	94
	TP143	SE281815.050	%	60 - 130%	90
	TP148	SE281815.055	%	60 - 130%	93
	TP148	SE281815.056	%	60 - 130%	94
	TP150	SE281815.058	%	60 - 130%	95
	TP150	SE281815.059	%	60 - 130%	90
	TP151	SE281815.060	%	60 - 130%	89
	TP151	SE281815.061	%	60 - 130%	88
	TP151	SE281815.062	%	60 - 130%	92
	TP152	SE281815.063	%	60 - 130%	91
	TP152	SE281815.064	%	60 - 130%	92
	TP153	SE281815.065	%	60 - 130%	94
	TP153	SE281815.067	%	60 - 130%	94
	TP154	SE281815.069	%	60 - 130%	86
	TP154	SE281815.070	%	60 - 130%	93
	TP155	SE281815.071	%	60 - 130%	96
	TP155	SE281815.072	%	60 - 130%	93
	TP157	SE281815.074	%	60 - 130%	92
	TP158	SE281815.075	%	60 - 130%	95
	TP159	SE281815.076	%	60 - 130%	97
	TP160	SE281815.077	%	60 - 130%	98
	TP161	SE281815.078	%	60 - 130%	99
	TP162	SE281815.079	%	60 - 130%	103
	TP163	SE281815.080	%	60 - 130%	96
	TP164	SE281815.081	%	60 - 130%	95
	TP165	SE281815.082	%	60 - 130%	100
	DDS2	SE281815.084	%	60 - 130%	99
	DDS4	SE281815.086	%	60 - 130%	104
	DDS6	SE281815.088	%	60 - 130%	104

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	TP104	SE281815.004	%	60 - 130%	83
	TP107	SE281815.009	%	60 - 130%	89
	TP113	SE281815.017	%	60 - 130%	82
	TP130	SE281815.036	%	60 - 130%	79
	TP141	SE281815.048	%	60 - 130%	87
	TP142	SE281815.049	%	60 - 130%	84
	TP143	SE281815.050	%	60 - 130%	82
	TP148	SE281815.055	%	60 - 130%	84
	TP148	SE281815.056	%	60 - 130%	73
	TP150	SE281815.058	%	60 - 130%	71
	TP150	SE281815.059	%	60 - 130%	99
	TP151	SE281815.060	%	60 - 130%	88
	TP151	SE281815.061	%	60 - 130%	85
	TP151	SE281815.062	%	60 - 130%	93
	TP152	SE281815.063	%	60 - 130%	94
	TP152	SE281815.064	%	60 - 130%	95
	TP153	SE281815.065	%	60 - 130%	93
	TP153	SE281815.067	%	60 - 130%	93
	TP154	SE281815.069	%	60 - 130%	97
	TP154	SE281815.070	%	60 - 130%	99
	TP155	SE281815.071	%	60 - 130%	87
	TP155	SE281815.072	%	60 - 130%	91
	TP157	SE281815.074	%	60 - 130%	81
	TP158	SE281815.075	%	60 - 130%	87
	TP159	SE281815.076	%	60 - 130%	93
	TP160	SE281815.077	%	60 - 130%	85
	TP161	SE281815.078	%	60 - 130%	82
	TP162	SE281815.079	%	60 - 130%	90
	TP163	SE281815.080	%	60 - 130%	89
	TP164	SE281815.081	%	60 - 130%	82
	TP165	SE281815.082	%	60 - 130%	89
	DDS2	SE281815.084	%	60 - 130%	93
	DDS4	SE281815.086	%	60 - 130%	82
	DDS6	SE281815.088	%	60 - 130%	87
	TS1	SE281815.092	%	60 - 130%	76
	TS2	SE281815.093	%	60 - 130%	76
	TS3	SE281815.094	%	60 - 130%	79
d4-1,2-dichloroethane (Surrogate)	TP104	SE281815.004	%	60 - 130%	84
	TP107	SE281815.009	%	60 - 130%	91
	TP113	SE281815.017	%	60 - 130%	86
	TP130	SE281815.036	%	60 - 130%	82
	TP141	SE281815.048	%	60 - 130%	94
	TP142	SE281815.049	%	60 - 130%	88
	TP143	SE281815.050	%	60 - 130%	85
	TP148	SE281815.055	%	60 - 130%	90
	TP148	SE281815.056	%	60 - 130%	81
	TP150	SE281815.058	%	60 - 130%	77
	TP150	SE281815.059	%	60 - 130%	88
	TP151	SE281815.060	%	60 - 130%	71
	TP151	SE281815.061	%	60 - 130%	77
	TP151	SE281815.062	%	60 - 130%	85
	TP152	SE281815.063	%	60 - 130%	86
	TP152	SE281815.064	%	60 - 130%	87
	TP153	SE281815.065	%	60 - 130%	86
	TP153	SE281815.067	%	60 - 130%	82
	TP154	SE281815.069	%	60 - 130%	89
	TP154	SE281815.070	%	60 - 130%	91
	TP155	SE281815.071	%	60 - 130%	84
	TP155	SE281815.072	%	60 - 130%	87
	TP157	SE281815.074	%	60 - 130%	78
	TP158	SE281815.075	%	60 - 130%	75

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)	TP159	SE281815.076	%	60 - 130%	85
	TP160	SE281815.077	%	60 - 130%	84
	TP161	SE281815.078	%	60 - 130%	78
	TP162	SE281815.079	%	60 - 130%	85
	TP163	SE281815.080	%	60 - 130%	85
	TP164	SE281815.081	%	60 - 130%	73
	TP165	SE281815.082	%	60 - 130%	86
	DDS2	SE281815.084	%	60 - 130%	93
	DDS4	SE281815.086	%	60 - 130%	90
	DDS6	SE281815.088	%	60 - 130%	88
	TS1	SE281815.092	%	60 - 130%	95
	TS2	SE281815.093	%	60 - 130%	93
	TS3	SE281815.094	%	60 - 130%	98
d8-toluene (Surrogate)	TP104	SE281815.004	%	60 - 130%	79
	TP107	SE281815.009	%	60 - 130%	85
	TP113	SE281815.017	%	60 - 130%	79
	TP130	SE281815.036	%	60 - 130%	76
	TP141	SE281815.048	%	60 - 130%	85
	TP142	SE281815.049	%	60 - 130%	81
	TP143	SE281815.050	%	60 - 130%	78
	TP148	SE281815.055	%	60 - 130%	81
	TP148	SE281815.056	%	60 - 130%	71
	TP150	SE281815.058	%	60 - 130%	72
	TP150	SE281815.059	%	60 - 130%	85
	TP151	SE281815.060	%	60 - 130%	83
	TP151	SE281815.061	%	60 - 130%	76
	TP151	SE281815.062	%	60 - 130%	80
	TP152	SE281815.063	%	60 - 130%	85
	TP152	SE281815.064	%	60 - 130%	84
	TP153	SE281815.065	%	60 - 130%	82
	TP153	SE281815.067	%	60 - 130%	78
	TP154	SE281815.069	%	60 - 130%	85
	TP154	SE281815.070	%	60 - 130%	84
	TP155	SE281815.071	%	60 - 130%	81
	TP155	SE281815.072	%	60 - 130%	83
	TP157	SE281815.074	%	60 - 130%	75
	TP158	SE281815.075	%	60 - 130%	71
	TP159	SE281815.076	%	60 - 130%	80
	TP160	SE281815.077	%	60 - 130%	81
	TP161	SE281815.078	%	60 - 130%	76
	TP162	SE281815.079	%	60 - 130%	81
	TP163	SE281815.080	%	60 - 130%	81
	TP164	SE281815.081	%	60 - 130%	71
	TP165	SE281815.082	%	60 - 130%	84
	DDS2	SE281815.084	%	60 - 130%	90
	DDS4	SE281815.086	%	60 - 130%	84
	DDS6	SE281815.088	%	60 - 130%	84
	TS1	SE281815.092	%	60 - 130%	92
	TS2	SE281815.093	%	60 - 130%	91
	TS3	SE281815.094	%	60 - 130%	94

VOCs in Water — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	RS1	SE281815.089	%	40 - 130%	104
	RS2	SE281815.090	%	40 - 130%	107
	RS3	SE281815.091	%	40 - 130%	107
d4-1,2-dichloroethane (Surrogate)	RS1	SE281815.089	%	40 - 130%	89
	RS2	SE281815.090	%	40 - 130%	75
	RS3	SE281815.091	%	40 - 130%	73
d8-toluene (Surrogate)	RS1	SE281815.089	%	40 - 130%	91
	RS2	SE281815.090	%	40 - 130%	92

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOCs in Water (continued) — Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	RS3	SE281815.091	%	40 - 130%	92

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	TP104	SE281815.004	%	60 - 130%	83
	TP107	SE281815.009	%	60 - 130%	89
	TP113	SE281815.017	%	60 - 130%	82
	TP130	SE281815.036	%	60 - 130%	79
	TP141	SE281815.048	%	60 - 130%	87
	TP142	SE281815.049	%	60 - 130%	84
	TP143	SE281815.050	%	60 - 130%	82
	TP148	SE281815.055	%	60 - 130%	84
	TP148	SE281815.056	%	60 - 130%	73
	TP150	SE281815.058	%	60 - 130%	71
	TP150	SE281815.059	%	60 - 130%	99
	TP151	SE281815.060	%	60 - 130%	88
	TP151	SE281815.061	%	60 - 130%	85
	TP151	SE281815.062	%	60 - 130%	93
	TP152	SE281815.063	%	60 - 130%	94
	TP152	SE281815.064	%	60 - 130%	95
	TP153	SE281815.065	%	60 - 130%	93
	TP153	SE281815.067	%	60 - 130%	93
	TP154	SE281815.069	%	60 - 130%	97
	TP154	SE281815.070	%	60 - 130%	99
	TP155	SE281815.071	%	60 - 130%	87
	TP155	SE281815.072	%	60 - 130%	91
	TP157	SE281815.074	%	60 - 130%	81
	TP158	SE281815.075	%	60 - 130%	87
	TP159	SE281815.076	%	60 - 130%	93
	TP160	SE281815.077	%	60 - 130%	85
	TP161	SE281815.078	%	60 - 130%	82
	TP162	SE281815.079	%	60 - 130%	90
	TP163	SE281815.080	%	60 - 130%	89
	TP164	SE281815.081	%	60 - 130%	82
	TP165	SE281815.082	%	60 - 130%	89
	DDS2	SE281815.084	%	60 - 130%	93
	DDS4	SE281815.086	%	60 - 130%	82
	DDS6	SE281815.088	%	60 - 130%	87
d4-1,2-dichloroethane (Surrogate)	TP104	SE281815.004	%	60 - 130%	84
	TP107	SE281815.009	%	60 - 130%	91
	TP113	SE281815.017	%	60 - 130%	86
	TP130	SE281815.036	%	60 - 130%	82
	TP141	SE281815.048	%	60 - 130%	94
	TP142	SE281815.049	%	60 - 130%	88
	TP143	SE281815.050	%	60 - 130%	85
	TP148	SE281815.055	%	60 - 130%	90
	TP148	SE281815.056	%	60 - 130%	81
	TP150	SE281815.058	%	60 - 130%	77
	TP150	SE281815.059	%	60 - 130%	88
	TP151	SE281815.060	%	60 - 130%	71
	TP151	SE281815.061	%	60 - 130%	77
	TP151	SE281815.062	%	60 - 130%	85
	TP152	SE281815.063	%	60 - 130%	86
	TP152	SE281815.064	%	60 - 130%	87
	TP153	SE281815.065	%	60 - 130%	86
	TP153	SE281815.067	%	60 - 130%	82
	TP154	SE281815.069	%	60 - 130%	89
	TP154	SE281815.070	%	60 - 130%	91
	TP155	SE281815.071	%	60 - 130%	84
	TP155	SE281815.072	%	60 - 130%	87
	TP157	SE281815.074	%	60 - 130%	78

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	TP158	SE281815.075	%	60 - 130%	75
	TP159	SE281815.076	%	60 - 130%	85
	TP160	SE281815.077	%	60 - 130%	84
	TP161	SE281815.078	%	60 - 130%	78
	TP162	SE281815.079	%	60 - 130%	85
	TP163	SE281815.080	%	60 - 130%	85
	TP164	SE281815.081	%	60 - 130%	73
	TP165	SE281815.082	%	60 - 130%	86
	DDS2	SE281815.084	%	60 - 130%	93
	DDS4	SE281815.086	%	60 - 130%	90
	DDS6	SE281815.088	%	60 - 130%	88
d8-toluene (Surrogate)	TP104	SE281815.004	%	60 - 130%	79
	TP107	SE281815.009	%	60 - 130%	85
	TP113	SE281815.017	%	60 - 130%	79
	TP130	SE281815.036	%	60 - 130%	76
	TP141	SE281815.048	%	60 - 130%	85
	TP142	SE281815.049	%	60 - 130%	81
	TP143	SE281815.050	%	60 - 130%	78
	TP148	SE281815.055	%	60 - 130%	81
	TP148	SE281815.056	%	60 - 130%	71
	TP150	SE281815.058	%	60 - 130%	72
	TP150	SE281815.059	%	60 - 130%	85
	TP151	SE281815.060	%	60 - 130%	83
	TP151	SE281815.061	%	60 - 130%	76
	TP151	SE281815.062	%	60 - 130%	80
	TP152	SE281815.063	%	60 - 130%	85
	TP152	SE281815.064	%	60 - 130%	84
	TP153	SE281815.065	%	60 - 130%	82
	TP153	SE281815.067	%	60 - 130%	78
	TP154	SE281815.069	%	60 - 130%	85
	TP154	SE281815.070	%	60 - 130%	84
	TP155	SE281815.071	%	60 - 130%	81
	TP155	SE281815.072	%	60 - 130%	83
	TP157	SE281815.074	%	60 - 130%	75
	TP158	SE281815.075	%	60 - 130%	71
	TP159	SE281815.076	%	60 - 130%	80
	TP160	SE281815.077	%	60 - 130%	81
	TP161	SE281815.078	%	60 - 130%	76
	TP162	SE281815.079	%	60 - 130%	81
	TP163	SE281815.080	%	60 - 130%	81
	TP164	SE281815.081	%	60 - 130%	71
	TP165	SE281815.082	%	60 - 130%	84
	DDS2	SE281815.084	%	60 - 130%	90
	DDS4	SE281815.086	%	60 - 130%	84
	DDS6	SE281815.088	%	60 - 130%	84

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

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	RS1	SE281815.089	%	40 - 130%	104
	RS2	SE281815.090	%	40 - 130%	107
	RS3	SE281815.091	%	40 - 130%	107
d4-1,2-dichloroethane (Surrogate)	RS1	SE281815.089	%	60 - 130%	89
	RS2	SE281815.090	%	60 - 130%	75
	RS3	SE281815.091	%	60 - 130%	73
d8-toluene (Surrogate)	RS1	SE281815.089	%	40 - 130%	91
	RS2	SE281815.090	%	40 - 130%	92
	RS3	SE281815.091	%	40 - 130%	92

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
LB345322.001	Mercury	mg/L	0.0001	<0.0001

Mercury in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB345275.001	Mercury	mg/kg	0.05	<0.05
LB345277.001	Mercury	mg/kg	0.05	<0.05
LB345278.001	Mercury	mg/kg	0.05	<0.05
LB345279.001	Mercury	mg/kg	0.05	<0.05
LB345437.001	Mercury	mg/kg	0.05	<0.05

Metals in Water (Dissolved) by ICPOES

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

Sample Number	Parameter	Units	LOR	Result
LB345415.001	Arsenic, As	mg/L	0.02	<0.02
	Cadmium, Cd	mg/L	0.001	<0.001
	Chromium, Cr	mg/L	0.005	<0.005
	Copper, Cu	mg/L	0.005	<0.005
	Lead, Pb	mg/L	0.02	<0.02
	Nickel, Ni	mg/L	0.005	<0.005
	Zinc, Zn	mg/L	0.01	<0.01

OC Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB345199.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.1	<0.1
		Endrin	mg/kg	0.1	<0.1
		Beta Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	88
LB345201.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

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

Sample Number		Parameter	Units	LOR	Result
LB345201.001		Endrin	mg/kg	0.1	<0.1
		Beta Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	91
LB345204.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.1	<0.1
		Endrin	mg/kg	0.1	<0.1
		Beta Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	90
LB345205.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.1	<0.1
		Endrin	mg/kg	0.1	<0.1
		Beta Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	91
LB345370.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

OC Pesticides in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB345370.001		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.1	<0.1
		Endrin	mg/kg	0.1	<0.1
		Beta Endosulfan	mg/kg	0.1	<0.1
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	96

OP Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB345199.001		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)	%	-	90
		d14-p-terphenyl (Surrogate)	%	-	87
LB345204.001		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)	%	-	89
LB345205.001		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

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

OP Pesticides in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB345205.001	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	87
		d14-p-terphenyl (Surrogate)	%	-	89
LB345370.001		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
		Bromophos Ethyl	mg/kg	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5
		Dichlorvos	mg/kg	0.5	<0.5
		Dimethoate	mg/kg	0.5	<0.5
		Ethion	mg/kg	0.2	<0.2
		Fenitrothion	mg/kg	0.2	<0.2
		Malathion	mg/kg	0.2	<0.2
		Methidathion	mg/kg	0.5	<0.5
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	91
		d14-p-terphenyl (Surrogate)	%	-	98

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB345199.001		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(b&j&k)fluoranthene	mg/kg	0.2	<0.2
		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	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	95
		2-fluorobiphenyl (Surrogate)	%	-	90
		d14-p-terphenyl (Surrogate)	%	-	87
LB345204.001		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(b&j&k)fluoranthene	mg/kg	0.2	<0.2
		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	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	104
		2-fluorobiphenyl (Surrogate)	%	-	88
		d14-p-terphenyl (Surrogate)	%	-	89
LB345205.001		Naphthalene	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB345205.001		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&k)fluoranthene	mg/kg	0.2	<0.2
		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	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	112
		2-fluorobiphenyl (Surrogate)	%	-	87
		d14-p-terphenyl (Surrogate)	%	-	89
LB345370.001		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(b&j&k)fluoranthene	mg/kg	0.2	<0.2
		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	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	103
		2-fluorobiphenyl (Surrogate)	%	-	91
		d14-p-terphenyl (Surrogate)	%	-	98

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Number		Parameter	Units	LOR	Result
LB345131.001		Naphthalene	µg/L	0.1	<0.1
		2-methylnaphthalene	µg/L	0.1	<0.1
		1-methylnaphthalene	µg/L	0.1	<0.1
		Acenaphthylene	µg/L	0.1	<0.1
		Acenaphthene	µg/L	0.1	<0.1
		Fluorene	µg/L	0.1	<0.1
		Phenanthrene	µg/L	0.1	<0.1
		Anthracene	µg/L	0.1	<0.1
		Fluoranthene	µg/L	0.1	<0.1
		Pyrene	µg/L	0.1	<0.1
		Benzo(a)anthracene	µg/L	0.1	<0.1
		Chrysene	µg/L	0.1	<0.1
		Benzo(a)pyrene	µg/L	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1
		Benzo(ghi)perylene	µg/L	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	54

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
LB345131.001	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	56
		d14-p-terphenyl (Surrogate)	%	-	60

PCBs in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB345199.001		Arochlor 1016	mg/kg	0.1	<0.1
		Arochlor 1221	mg/kg	0.1	<0.1
		Arochlor 1232	mg/kg	0.1	<0.1
		Arochlor 1242	mg/kg	0.1	<0.1
		Arochlor 1248	mg/kg	0.1	<0.1
		Arochlor 1254	mg/kg	0.1	<0.1
		Arochlor 1260	mg/kg	0.1	<0.1
		Total PCBs	mg/kg	0.1	<0.1
	Surrogates	TCMX (Surrogate)	%	-	88
LB345204.001		Arochlor 1016	mg/kg	0.1	<0.1
		Arochlor 1221	mg/kg	0.1	<0.1
		Arochlor 1232	mg/kg	0.1	<0.1
		Arochlor 1242	mg/kg	0.1	<0.1
		Arochlor 1248	mg/kg	0.1	<0.1
		Arochlor 1254	mg/kg	0.1	<0.1
		Arochlor 1260	mg/kg	0.1	<0.1
		Total PCBs	mg/kg	0.1	<0.1
	Surrogates	TCMX (Surrogate)	%	-	90
LB345205.001		Arochlor 1016	mg/kg	0.1	<0.1
		Arochlor 1221	mg/kg	0.1	<0.1
		Arochlor 1232	mg/kg	0.1	<0.1
		Arochlor 1242	mg/kg	0.1	<0.1
		Arochlor 1248	mg/kg	0.1	<0.1
		Arochlor 1254	mg/kg	0.1	<0.1
		Arochlor 1260	mg/kg	0.1	<0.1
		Total PCBs	mg/kg	0.1	<0.1
	Surrogates	TCMX (Surrogate)	%	-	91
LB345370.001		Arochlor 1016	mg/kg	0.1	<0.1
		Arochlor 1221	mg/kg	0.1	<0.1
		Arochlor 1232	mg/kg	0.1	<0.1
		Arochlor 1242	mg/kg	0.1	<0.1
		Arochlor 1248	mg/kg	0.1	<0.1
		Arochlor 1254	mg/kg	0.1	<0.1
		Arochlor 1260	mg/kg	0.1	<0.1
		Total PCBs	mg/kg	0.1	<0.1
	Surrogates	TCMX (Surrogate)	%	-	96

Total Phenolics in Soil

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result
LB345471.001	Total Phenols	mg/kg	0.5	<0.5

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

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

Sample Number	Parameter	Units	LOR	Result
LB345267.001	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
LB345269.001	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

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

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

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

Sample Number	Parameter	Units	LOR	Result
LB345269.001	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2
LB345270.001	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
LB345271.001	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
LB345430.001	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

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB345199.001	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
LB345204.001	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
LB345205.001	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
LB345370.001	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
LB345131.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB345202.001	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

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

VOC's in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result
LB345202.001	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	94
		d8-toluene (Surrogate)	%	-	86
		Bromofluorobenzene (Surrogate)	%	-	86
	Totals	Total BTEX*	mg/kg	0.3	<0.3
LB345371.001	Monocyclic Aromatic	Benzene	mg/kg	0.1	<0.1
	Hydrocarbons	Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	92
		d8-toluene (Surrogate)	%	-	84
		Bromofluorobenzene (Surrogate)	%	-	98
	Totals	Total BTEX*	mg/kg	0.3	<0.3

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result
LB345327.001	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5
	Hydrocarbons	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)	%	-	84
		d8-toluene (Surrogate)	%	-	86
		Bromofluorobenzene (Surrogate)	%	-	91

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number		Parameter	Units	LOR	Result
LB345202.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	94
LB345371.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	92

Volatile Petroleum Hydrocarbons in Water

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

Sample Number		Parameter	Units	LOR	Result
LB345327.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	84
		d8-toluene (Surrogate)	%	-	86
		Bromofluorobenzene (Surrogate)	%	-	91

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury (dissolved) in Water

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281913.001	LB345322.018	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 %
SE281815.010	LB345275.014	Mercury	mg/kg	0.05	0.09	0.08	88	5
SE281815.019	LB345275.023	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE281815.029	LB345277.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE281815.038	LB345277.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE281815.048	LB345278.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE281815.057	LB345278.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE281815.067	LB345279.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE281815.076	LB345279.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE281815.086	LB345437.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE281959.011	LB345437.023	Mercury	mg/kg	0.05	<0.05	<0.05	200	0

Moisture Content

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.010	LB345286.011	% Moisture	%w/w	1	8.0	6.8	44	16
SE281815.019	LB345286.021	% Moisture	%w/w	1	7.3	7.9	43	8
SE281815.029	LB345287.011	% Moisture	%w/w	1	9.8	9.1	41	7
SE281815.038	LB345287.021	% Moisture	%w/w	1	6.6	6.5	45	2
SE281815.048	LB345288.011	% Moisture	%w/w	1	7.7	8.5	42	9
SE281815.057	LB345288.021	% Moisture	%w/w	1	17.9	17.9	36	0
SE281815.067	LB345289.011	% Moisture	%w/w	1	9.9	12.4	39	23
SE281815.076	LB345289.021	% Moisture	%w/w	1	10.3	12.6	39	20
SE281815.086	LB345424.011	% Moisture	%w/w	1	3.9	4.7	53	17
SE281959.011	LB345424.020	% Moisture	%w/w	1	22.7	22.4	34	1

OC Pesticides in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.010	LB345199.014		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.45	0.47	30	5
SE281815.029	LB345201.014		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.029	LB345201.014		Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.51	0.47	30	7
SE281815.036	LB345199.025		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.46	0.45	30	2
SE281815.038	LB345201.023		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			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

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.038	LB345201.023		Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.49	0.46	30	5
SE281815.048	LB345204.014		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.45	0.43	30	6
SE281815.057	LB345204.024		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.057	LB345204.024		Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.40	0.45	30	12
SE281815.067	LB345205.014		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.47	0.44	30	6
SE281815.076	LB345205.024		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.076	LB345205.024		Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.49	0.47	30	4
SE281815.086	LB345370.014		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.52	0.47	30	9
SE281959.011	LB345370.026		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin	mg/kg	0.1	<0.1	<0.1	200	0
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC Pesticides	mg/kg	0.1	<0.1	<0.1	200	0
			Total OC VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.48	0.47	30	1

OP Pesticides in Soil

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

Original	Duplicate		Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.036	LB345199.025		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE281815.048	LB345204.014		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	-	0.4	0.4	30	5
SE281815.067	LB345205.014		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	5
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.4	30	6
SE281815.076	LB345205.024		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE281815.086	LB345370.014		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OP Pesticides in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.086	LB345370.014		Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.4	30	11
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.4	30	9
SE281959.011	LB345370.026		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			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	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.036	LB345199.025		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	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	0.1	<0.1	<0.1	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.47	0.47	30	1
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.46	0.45	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.45	0.45	30	1
SE281815.048	LB345204.014		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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.048	LB345204.014		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(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	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	0.1	<0.1	<0.1	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.51	0.50	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.43	0.42	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.43	0.41	30	5
SE281815.067	LB345205.014		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(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	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	0.1	<0.1	<0.1	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.44	0.42	30	4
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.44	0.42	30	5
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.45	0.43	30	6
SE281815.076	LB345205.024		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(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.076	LB345205.024		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	0.1	<0.1	<0.1	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.48	0.47	30	3
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.47	0.46	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.47	0.46	30	3
SE281815.086	LB345370.014		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	178	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(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	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	0.1	<0.1	<0.1	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.49	0.43	30	12
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.50	0.45	30	11
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.46	0.42	30	9
SE281959.011	LB345370.026		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			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(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	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	0.1	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	30	6
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	4

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281756.008	LB345131.028		Naphthalene	µg/L	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
			Acenaphthylene	µg/L	0.1	<0.1	<0.1	200	0
			Acenaphthene	µg/L	0.1	<0.1	<0.1	200	0
			Fluorene	µg/L	0.1	<0.1	<0.1	200	0
			Phenanthrene	µg/L	0.1	<0.1	<0.1	200	0
			Anthracene	µg/L	0.1	<0.1	<0.1	200	0
			Fluoranthene	µg/L	0.1	0.1	0.1	103	11
			Pyrene	µg/L	0.1	0.2	0.2	74	9
			Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	200	0
			Chrysene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.4	0.4	30	10
			2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.4	30	15
			d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.4	30	10

PCBs in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.036	LB345199.025		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1260	mg/kg	0.1	<0.1	<0.1	200	0
			Total PCBs	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.46	0.45	30	2
SE281815.048	LB345204.014		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1260	mg/kg	0.1	<0.1	<0.1	200	0
			Total PCBs	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.46	0.43	30	7
SE281815.067	LB345205.014		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1260	mg/kg	0.1	<0.1	<0.1	200	0
			Total PCBs	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.47	0.44	30	6
SE281815.076	LB345205.024		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1260	mg/kg	0.1	<0.1	<0.1	200	0
			Total PCBs	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.49	0.47	30	4
SE281815.086	LB345370.014		Arochlor 1016	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

PCBs in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.086	LB345370.014		Arochlor 1221	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1260	mg/kg	0.1	<0.1	<0.1	200	0
			Total PCBs	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.52	0.47	30	9
SE281959.011	LB345370.026		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	200	0
			Arochlor 1260	mg/kg	0.1	<0.1	<0.1	200	0
			Total PCBs	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.48	0.47	30	1

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.019	LB345224.014	pH	pH Units	0.1	5.6	5.6	32	1
SE281815.046	LB345224.025	pH	pH Units	0.1	6.1	6.1	32	0
SE281815.061	LB345225.014	pH	pH Units	0.1	7.5	7.6	31	2
SE281815.082	LB345225.025	pH	pH Units	0.1	6.3	6.2	32	2

Total Phenolics in Soil

Method: ME-(AU)-[ENV]AN295

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.077	LB345471.008	Total Phenols	mg/kg	0.5	<0.5	<0.5	147	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 %
SE281815.010	LB345267.014	Arsenic, As	mg/kg	1	2	2	85	11
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	24	30	32	23
		Copper, Cu	mg/kg	0.5	15	16	33	9
		Nickel, Ni	mg/kg	0.5	24	19	32	21
		Lead, Pb	mg/kg	1	25	29	34	14
		Zinc, Zn	mg/kg	2	61	69	33	12
SE281815.019	LB345267.023	Arsenic, As	mg/kg	1	<1	1	121	25
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	16	22	33	31
		Copper, Cu	mg/kg	0.5	8.2	6.8	37	19
		Nickel, Ni	mg/kg	0.5	5.4	7.8	38	36
		Lead, Pb	mg/kg	1	7	7	44	12
		Zinc, Zn	mg/kg	2	5	5	70	17
SE281815.029	LB345269.014	Arsenic, As	mg/kg	1	<1	<1	142	0
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	11	13	34	22
		Copper, Cu	mg/kg	0.5	5.7	6.0	39	5
		Nickel, Ni	mg/kg	0.5	1.8	2.0	56	9
		Lead, Pb	mg/kg	1	11	13	39	18
		Zinc, Zn	mg/kg	2	6	6	62	5
SE281815.038	LB345269.024	Arsenic, As	mg/kg	1	1	1	112	25
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	27	29	32	10
		Copper, Cu	mg/kg	0.5	15	15	33	1
		Nickel, Ni	mg/kg	0.5	3.2	4.0	44	22
		Lead, Pb	mg/kg	1	10	9	40	8
		Zinc, Zn	mg/kg	2	14	14	44	4
SE281815.048	LB345270.014	Arsenic, As	mg/kg	1	3	4	61	26

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued) — **Method: ME-(AU)-[ENV]AN040/AN320**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.048	LB345270.014	Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	43	47	31	8
		Copper, Cu	mg/kg	0.5	21	22	32	3
		Nickel, Ni	mg/kg	0.5	6.6	8.0	37	18
		Lead, Pb	mg/kg	1	14	16	37	10
		Zinc, Zn	mg/kg	2	24	25	38	5
SE281815.057	LB345270.024	Arsenic, As	mg/kg	1	2	2	88	6
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	23	22	32	2
		Copper, Cu	mg/kg	0.5	40	38	31	4
		Nickel, Ni	mg/kg	0.5	8.6	8.1	36	5
		Lead, Pb	mg/kg	1	7	7	44	0
		Zinc, Zn	mg/kg	2	37	37	35	1
SE281815.067	LB345271.014	Arsenic, As	mg/kg	1	6	6	46	3
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	160	160	30	1
		Copper, Cu	mg/kg	0.5	13	13	34	0
		Nickel, Ni	mg/kg	0.5	5.3	5.3	39	1
		Lead, Pb	mg/kg	1	15	15	37	2
		Zinc, Zn	mg/kg	2	11	11	49	0
SE281815.076	LB345271.024	Arsenic, As	mg/kg	1	4	3	59	16
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	19	22	32	12
		Copper, Cu	mg/kg	0.5	14	13	34	8
		Nickel, Ni	mg/kg	0.5	6.6	7.4	37	12
		Lead, Pb	mg/kg	1	21	16	35	27
		Zinc, Zn	mg/kg	2	18	19	41	5
SE281815.086	LB345430.014	Arsenic, As	mg/kg	1	3	2	73	38
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	8.6	10	35	15
		Copper, Cu	mg/kg	0.5	11	11	35	1
		Nickel, Ni	mg/kg	0.5	5.0	5.0	40	1
		Lead, Pb	mg/kg	1	28	22	34	26
		Zinc, Zn	mg/kg	2	23	24	38	5
SE281959.011	LB345430.023	Arsenic, As	mg/kg	1	9	8	42	5
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	16	17	33	5
		Copper, Cu	mg/kg	0.5	3.3	2.6	47	22
		Nickel, Ni	mg/kg	0.5	<0.5	<0.5	200	0
		Lead, Pb	mg/kg	1	20	20	35	3
		Zinc, Zn	mg/kg	2	5.1	4.3	73	16

TRH (Total Recoverable Hydrocarbons) in Soil — **Method: ME-(AU)-[ENV]AN403**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.036	LB345199.025		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	55	61	107	11
			TRH C29-C36	mg/kg	45	75	83	87	11
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	130	140	110	11
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	110	130	105	10
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE281815.048	LB345204.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	158	0
			TRH C29-C36	mg/kg	45	47	46	127	1
			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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.048	LB345204.014	TRH F Bands	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	166	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE281815.067	LB345205.014		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
SE281815.076	LB345205.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE281815.086	LB345370.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	177	0
			TRH C29-C36	mg/kg	45	49	49	121	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	157	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE281959.011	LB345370.026		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0

TRH (Total Recoverable Hydrocarbons) in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281756.008	LB345131.028		TRH C10-C14	µg/L	50	<50	52	136	5
			TRH C15-C28	µg/L	200	<200	<200	156	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	177	0
		TRH F Bands	TRH >C10-C16	µg/L	60	75	83	106	10
			TRH >C10-C16 - Naphthalene (F2)	µg/L	60	75	83	106	10
			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 %
SE281815.058	LB345202.014	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

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.058	LB345202.014	Monocyclic	o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.7	8.6	50	10
			d8-toluene (Surrogate)	mg/kg	-	7.2	7.9	50	10
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.1	7.9	50	10
		Totals	Total BTEX*	mg/kg	0.3	<0.3	<0.3	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE281815.070	LB345202.025	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.1	8.4	50	8
			d8-toluene (Surrogate)	mg/kg	-	8.4	8.1	50	5
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.9	9.5	50	4
		Totals	Total BTEX*	mg/kg	0.3	<0.3	<0.3	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE281815.076	LB345371.009	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.5	8.8	50	3
			d8-toluene (Surrogate)	mg/kg	-	8.0	8.1	50	0
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.3	9.3	50	0
		Totals	Total BTEX*	mg/kg	0.3	<0.3	<0.3	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE281815.081	LB345371.015	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.3	9.0	50	20
			d8-toluene (Surrogate)	mg/kg	-	7.1	8.7	50	21
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.2	9.4	50	13
		Totals	Total BTEX*	mg/kg	0.3	<0.3	<0.3	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE281959.005	LB345371.026	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.7	7.9	50	10
			d8-toluene (Surrogate)	mg/kg	-	8.3	6.9	50	18
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.7	9.1	50	5
		Totals	Total BTEX*	mg/kg	0.3	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0

VOCs in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281802.001	LB345327.026	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	0.8	0.6	98	28
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	9.2	30	13

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOCs in Water (continued)

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281802.001	LB345327.026	Surrogates	d8-toluene (Surrogate)	µg/L	-	9.1	8.5	30	7
			Bromofluorobenzene (Surrogate)	µg/L	-	11	8.7	30	22
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
SE281874.003	LB345327.024	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	1.7	1.9	58	10
			Ethylbenzene	µg/L	0.5	1.2	2.0	61	47
			m/p-xylene	µg/L	1	1	2	89	41
			o-xylene	µg/L	0.5	0.5	0.8	106	46
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.4	8.2	30	3
			d8-toluene (Surrogate)	µg/L	-	8.4	8.7	30	4
			Bromofluorobenzene (Surrogate)	µg/L	-	8.6	9.3	30	8
		Totals	Total BTEX	µg/L	3	5	7	82	34

Volatile Petroleum Hydrocarbons in Soil

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815.058	LB345202.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.7	8.6	50	10
			d8-toluene (Surrogate)	mg/kg	-	7.2	7.9	50	10
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.1	7.9	50	10
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE281815.070	LB345202.025		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.1	8.4	50	8
			d8-toluene (Surrogate)	mg/kg	-	8.4	8.1	50	5
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.9	9.5	50	4
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE281815.076	LB345371.009		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.5	8.8	50	3
			d8-toluene (Surrogate)	mg/kg	-	8.0	8.1	50	0
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.3	9.3	50	0
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE281815.081	LB345371.015		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.3	9.0	50	20
			d8-toluene (Surrogate)	mg/kg	-	7.1	8.7	50	21
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.2	9.4	50	13
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE281959.005	LB345371.026		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	-	8.7	7.9	50	10
			d8-toluene (Surrogate)	mg/kg	-	8.3	6.9	50	18
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.7	9.1	50	5
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0

Volatile Petroleum Hydrocarbons in Water

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281802.001	LB345327.026		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	9.2	30	13
			d8-toluene (Surrogate)	µg/L	-	9.1	8.5	30	7
			Bromofluorobenzene (Surrogate)	µg/L	-	11	8.7	30	22
		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
SE281874.003	LB345327.024		TRH C6-C10	µg/L	50	<50	<50	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

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

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281874.003	LB345327.024		TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.4	8.2	30	3
			d8-toluene (Surrogate)	µg/L	-	8.4	8.7	30	4
			Bromofluorobenzene (Surrogate)	µg/L	-	8.6	9.3	30	8
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

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

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

Mercury in Soil

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345275.002	Mercury	mg/kg	0.05	0.19	0.2	80 - 120	96
LB345277.002	Mercury	mg/kg	0.05	0.19	0.2	80 - 120	93
LB345278.002	Mercury	mg/kg	0.05	0.18	0.2	80 - 120	90
LB345279.002	Mercury	mg/kg	0.05	0.20	0.2	80 - 120	101
LB345437.002	Mercury	mg/kg	0.05	0.17	0.2	80 - 120	85

Metals in Water (Dissolved) by ICPOES

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

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345415.002	Arsenic, As	mg/L	0.02	0.47	0.5	80 - 120	94
	Cadmium, Cd	mg/L	0.001	0.43	0.5	80 - 120	87
	Chromium, Cr	mg/L	0.005	0.46	0.5	80 - 120	92
	Copper, Cu	mg/L	0.005	0.45	0.5	80 - 120	90
	Lead, Pb	mg/L	0.02	0.45	0.5	80 - 120	90
	Nickel, Ni	mg/L	0.005	0.45	0.5	80 - 120	90
	Zinc, Zn	mg/L	0.01	0.46	0.5	80 - 120	93

OC Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345199.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	101
		Heptachlor	mg/kg	0.1	0.3	0.2	60 - 140	132
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	102
		Dieldrin	mg/kg	0.1	0.2	0.2	60 - 140	117
		Endrin	mg/kg	0.1	0.2	0.2	60 - 140	108
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	119
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.45	0.5	40 - 130	90
LB345201.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	97
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	105
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	103
		Dieldrin	mg/kg	0.1	0.2	0.2	60 - 140	120
		Endrin	mg/kg	0.1	0.2	0.2	60 - 140	93
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	79
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.44	0.5	40 - 130	88
LB345204.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	108
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	113
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	106
		Dieldrin	mg/kg	0.1	0.2	0.2	60 - 140	112
		Endrin	mg/kg	0.1	0.2	0.2	60 - 140	118
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	103
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.47	0.5	40 - 130	94
LB345205.002		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	103
		Dieldrin	mg/kg	0.1	0.2	0.2	60 - 140	112
		Endrin	mg/kg	0.1	0.2	0.2	60 - 140	118
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	98
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.46	0.5	40 - 130	91
LB345370.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	89
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	80
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	91
		Dieldrin	mg/kg	0.1	0.2	0.2	60 - 140	104
		Endrin	mg/kg	0.1	0.2	0.2	60 - 140	89
		p,p'-DDT	mg/kg	0.1	0.1	0.2	60 - 140	63
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.45	0.5	40 - 130	90

OP Pesticides in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345199.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.3	2	60 - 140	114
		Diazinon (Dimpylate)	mg/kg	0.5	2.3	2	60 - 140	113
		Dichlorvos	mg/kg	0.5	2.1	2	60 - 140	106
		Ethion	mg/kg	0.2	2.3	2	60 - 140	113
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	90
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	87

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

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

OP Pesticides in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345204.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.5	2	60 - 140	126
		Diazinon (Dimpylate)	mg/kg	0.5	2.2	2	60 - 140	112
		Dichlorvos	mg/kg	0.5	2.5	2	60 - 140	123
		Ethion	mg/kg	0.2	2.3	2	60 - 140	115
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	91
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	95
LB345205.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.5	2	60 - 140	123
		Diazinon (Dimpylate)	mg/kg	0.5	2.4	2	60 - 140	119
		Dichlorvos	mg/kg	0.5	2.2	2	60 - 140	109
		Ethion	mg/kg	0.2	2.1	2	60 - 140	106
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	89
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	91
LB345370.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.0	2	60 - 140	101
		Diazinon (Dimpylate)	mg/kg	0.5	2.4	2	60 - 140	119
		Dichlorvos	mg/kg	0.5	2.2	2	60 - 140	110
		Ethion	mg/kg	0.2	2.0	2	60 - 140	100
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	70 - 130	84
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	70 - 130	94

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345199.002		Naphthalene	mg/kg	0.1	4.1	4	60 - 140	102
		Acenaphthylene	mg/kg	0.1	4.0	4	60 - 140	101
		Acenaphthene	mg/kg	0.1	4.1	4	60 - 140	103
		Phenanthrene	mg/kg	0.1	4.3	4	60 - 140	107
		Anthracene	mg/kg	0.1	4.2	4	60 - 140	106
		Fluoranthene	mg/kg	0.1	4.3	4	60 - 140	107
		Pyrene	mg/kg	0.1	4.3	4	60 - 140	107
		Benzo(a)pyrene	mg/kg	0.1	4.6	4	60 - 140	115
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.47	0.5	70 - 130	94
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.45	0.5	70 - 130	90
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.44	0.5	70 - 130	87
LB345204.002		Naphthalene	mg/kg	0.1	4.4	4	60 - 140	109
		Acenaphthylene	mg/kg	0.1	4.4	4	60 - 140	111
		Acenaphthene	mg/kg	0.1	4.4	4	60 - 140	109
		Phenanthrene	mg/kg	0.1	4.6	4	60 - 140	115
		Anthracene	mg/kg	0.1	4.6	4	60 - 140	116
		Fluoranthene	mg/kg	0.1	4.9	4	60 - 140	122
		Pyrene	mg/kg	0.1	4.8	4	60 - 140	120
		Benzo(a)pyrene	mg/kg	0.1	5.1	4	60 - 140	127
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.54	0.5	70 - 130	108
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.46	0.5	70 - 130	91
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.47	0.5	70 - 130	95
LB345205.002		Naphthalene	mg/kg	0.1	4.1	4	60 - 140	103
		Acenaphthylene	mg/kg	0.1	4.3	4	60 - 140	107
		Acenaphthene	mg/kg	0.1	4.1	4	60 - 140	103
		Phenanthrene	mg/kg	0.1	4.3	4	60 - 140	108
		Anthracene	mg/kg	0.1	4.4	4	60 - 140	110
		Fluoranthene	mg/kg	0.1	4.4	4	60 - 140	110
		Pyrene	mg/kg	0.1	4.3	4	60 - 140	107
		Benzo(a)pyrene	mg/kg	0.1	4.7	4	60 - 140	117
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.56	0.5	70 - 130	112
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.44	0.5	70 - 130	89
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.45	0.5	70 - 130	91
LB345370.002		Naphthalene	mg/kg	0.1	4.3	4	60 - 140	107
		Acenaphthylene	mg/kg	0.1	4.4	4	60 - 140	109
		Acenaphthene	mg/kg	0.1	4.4	4	60 - 140	109
		Phenanthrene	mg/kg	0.1	4.7	4	60 - 140	117
		Anthracene	mg/kg	0.1	4.9	4	60 - 140	123
		Fluoranthene	mg/kg	0.1	4.8	4	60 - 140	119
		Pyrene	mg/kg	0.1	4.7	4	60 - 140	119

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 %
LB345370.002		Benzo(a)pyrene	mg/kg	0.1	5.6	4	60 - 140	140
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.48	0.5	70 - 130	96
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.42	0.5	70 - 130	84
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.47	0.5	70 - 130	94

PAH (Polynuclear Aromatic Hydrocarbons) in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345131.002		Naphthalene	µg/L	0.1	29	40	60 - 140	72
		Acenaphthylene	µg/L	0.1	32	40	60 - 140	79
		Acenaphthene	µg/L	0.1	31	40	60 - 140	76
		Phenanthrene	µg/L	0.1	29	40	60 - 140	73
		Anthracene	µg/L	0.1	27	40	60 - 140	67
		Fluoranthene	µg/L	0.1	29	40	60 - 140	73
		Pyrene	µg/L	0.1	27	40	60 - 140	67
		Benzo(a)pyrene	µg/L	0.1	34	40	60 - 140	84
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.5	40 - 130	56
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	68
		d14-p-terphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	54

PCBs in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345199.002		Arochlor 1260	mg/kg	0.1	0.4	0.4	60 - 140	103
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.45	0.5	40 - 130	90
LB345204.002		Arochlor 1260	mg/kg	0.1	0.4	0.4	60 - 140	110
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.47	0.5	40 - 130	94
LB345205.002		Arochlor 1260	mg/kg	0.1	0.4	0.4	60 - 140	106
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.46	0.5	40 - 130	91
LB345370.002		Arochlor 1260	mg/kg	0.1	0.4	0.4	60 - 140	97
	Surrogates	TCMX (Surrogate)	mg/kg	-	0.45	0.5	40 - 130	90

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345224.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100
LB345225.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100

Total Phenolics in Soil

Method: ME-(AU)-[ENV]AN295

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345471.002	Total Phenols	mg/kg	0.5	19	20	80 - 120	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 %
LB345267.002	Arsenic, As	mg/kg	1	350	318.22	80 - 120	109
	Cadmium, Cd	mg/kg	0.3	3.9	4.81	70 - 130	81
	Chromium, Cr	mg/kg	0.5	37	38.31	80 - 120	97
	Copper, Cu	mg/kg	0.5	300	290	80 - 120	104
	Nickel, Ni	mg/kg	0.5	180	187	80 - 120	98
	Lead, Pb	mg/kg	1	92	89.9	80 - 120	102
	Zinc, Zn	mg/kg	2	270	273	80 - 120	100
LB345269.002	Arsenic, As	mg/kg	1	350	318.22	80 - 120	111
	Cadmium, Cd	mg/kg	0.3	4.0	4.81	70 - 130	84
	Chromium, Cr	mg/kg	0.5	37	38.31	80 - 120	97
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	106
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	102
	Lead, Pb	mg/kg	1	94	89.9	80 - 120	105
	Zinc, Zn	mg/kg	2	280	273	80 - 120	102
LB345270.002	Arsenic, As	mg/kg	1	340	318.22	80 - 120	107
	Cadmium, Cd	mg/kg	0.3	3.8	4.81	70 - 130	80
	Chromium, Cr	mg/kg	0.5	36	38.31	80 - 120	94
	Copper, Cu	mg/kg	0.5	300	290	80 - 120	102
	Nickel, Ni	mg/kg	0.5	180	187	80 - 120	98

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

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

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

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345270.002		Lead, Pb	mg/kg	1	92	89.9	80 - 120	102
		Zinc, Zn	mg/kg	2	270	273	80 - 120	99
LB345271.002		Arsenic, As	mg/kg	1	370	318.22	80 - 120	117
		Cadmium, Cd	mg/kg	0.3	4.6	4.81	70 - 130	95
		Chromium, Cr	mg/kg	0.5	44	38.31	80 - 120	115
		Copper, Cu	mg/kg	0.5	330	290	80 - 120	113
		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	290	273	80 - 120	107
LB345430.002		Arsenic, As	mg/kg	1	380	318.22	80 - 120	118
		Cadmium, Cd	mg/kg	0.3	4.3	4.81	70 - 130	89
		Chromium, Cr	mg/kg	0.5	45	38.31	80 - 120	117
		Copper, Cu	mg/kg	0.5	330	290	80 - 120	115
		Nickel, Ni	mg/kg	0.5	200	187	80 - 120	109
		Lead, Pb	mg/kg	1	100	89.9	80 - 120	111
		Zinc, Zn	mg/kg	2	300	273	80 - 120	109

TRH (Total Recoverable Hydrocarbons) in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345199.002		TRH C10-C14	mg/kg	20	41	40	60 - 140	103
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	94
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	91
	TRH F Bands	TRH >C10-C16	mg/kg	25	40	40	60 - 140	99
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	93
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	93
LB345204.002		TRH C10-C14	mg/kg	20	49	40	60 - 140	123
		TRH C15-C28	mg/kg	45	47	40	60 - 140	119
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	108
	TRH F Bands	TRH >C10-C16	mg/kg	25	47	40	60 - 140	118
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	119
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	108
LB345205.002		TRH C10-C14	mg/kg	20	46	40	60 - 140	114
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	98
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	78
	TRH F Bands	TRH >C10-C16	mg/kg	25	43	40	60 - 140	106
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	90
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	79
LB345370.002		TRH C10-C14	mg/kg	20	34	40	60 - 140	86
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	86
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	83
	TRH F Bands	TRH >C10-C16	mg/kg	25	35	40	60 - 140	87
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	86
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	83

TRH (Total Recoverable Hydrocarbons) in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345131.002		TRH C10-C14	µg/L	50	1300	1200	60 - 140	109
		TRH C15-C28	µg/L	200	1600	1200	60 - 140	135
		TRH C29-C36	µg/L	200	1600	1200	60 - 140	135
	TRH F Bands	TRH >C10-C16	µg/L	60	1500	1200	60 - 140	124
		TRH >C16-C34 (F3)	µg/L	500	1700	1200	60 - 140	139
		TRH >C34-C40 (F4)	µg/L	500	820	600	60 - 140	136

VOC's in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345202.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.2	5	60 - 140	83
		Toluene	mg/kg	0.1	4.2	5	60 - 140	84
		Ethylbenzene	mg/kg	0.1	4.3	5	60 - 140	86
		m/p-xylene	mg/kg	0.2	8.6	10	60 - 140	86
		o-xylene	mg/kg	0.1	4.3	5	60 - 140	87
LB345371.002	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.4	5	60 - 140	88
		Toluene	mg/kg	0.1	4.4	5	60 - 140	89

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

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

VOC's in Soil (continued)

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345371.002	Monocyclic Aromatic	Ethylbenzene	mg/kg	0.1	4.2	5	60 - 140	85
		m/p-xylene	mg/kg	0.2	8.2	10	60 - 140	82
		o-xylene	mg/kg	0.1	4.2	5	60 - 140	85

VOCs in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345327.002	Monocyclic Aromatic	Benzene	µg/L	0.5	49	45.45	60 - 140	107
		Toluene	µg/L	0.5	49	45.45	60 - 140	108
		Ethylbenzene	µg/L	0.5	47	45.45	60 - 140	103
		m/p-xylene	µg/L	1	94	90.9	60 - 140	103
		o-xylene	µg/L	0.5	47	45.45	60 - 140	103
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.9	10	60 - 140	99
		d8-toluene (Surrogate)	µg/L	-	9.9	10	70 - 130	99
		Bromofluorobenzene (Surrogate)	µg/L	-	9.4	10	70 - 130	94

Volatile Petroleum Hydrocarbons in Soil

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345202.002		TRH C6-C10	mg/kg	25	74	92.5	60 - 140	80
		TRH C6-C9	mg/kg	20	65	80	60 - 140	81
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	48	62.5	60 - 140	78
LB345371.002		TRH C6-C10	mg/kg	25	64	92.5	60 - 140	69
		TRH C6-C9	mg/kg	20	58	80	60 - 140	73
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	38	62.5	60 - 140	61

Volatile Petroleum Hydrocarbons in Water

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

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB345327.002		TRH C6-C10	µg/L	50	930	946.63	60 - 140	99
		TRH C6-C9	µg/L	40	810	818.71	60 - 140	98
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.9	10	60 - 140	99
		d8-toluene (Surrogate)	µg/L	-	9.9	10	70 - 130	99
		Bromofluorobenzene (Surrogate)	µg/L	-	9.4	10	70 - 130	94
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	650	639.67	60 - 140	101

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury (dissolved) in Water

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE281719.012	LB345322.004	Mercury	mg/L	0.0001	0.0016	<0.0001	0.008	81

Mercury in Soil

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE281815.001	LB345275.004	Mercury	mg/kg	0.05	0.24	<0.05	0.2	104
SE281815.020	LB345277.004	Mercury	mg/kg	0.05	0.19	<0.05	0.2	89
SE281815.039	LB345278.004	Mercury	mg/kg	0.05	0.19	<0.05	0.2	77
SE281815.058	LB345279.004	Mercury	mg/kg	0.05	0.19	<0.05	0.2	89
SE281815.077	LB345437.004	Mercury	mg/kg	0.05	0.19	<0.05	0.2	84

OC Pesticides in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE281815.004	LB345199.027		Alpha BHC	mg/kg	0.1		<0.1	-	-
			Hexachlorobenzene (HCB)	mg/kg	0.1		<0.1	-	-
			Beta BHC	mg/kg	0.1		<0.1	-	-
			Lindane (gamma BHC)	mg/kg	0.1		<0.1	-	-
			Delta BHC	mg/kg	0.1		<0.1	0.2	102
			Heptachlor	mg/kg	0.1		<0.1	0.2	118
			Aldrin	mg/kg	0.1		<0.1	0.2	107
			Heptachlor epoxide	mg/kg	0.1		<0.1	-	-
			Gamma Chlordane	mg/kg	0.1		<0.1	-	-
			Alpha Chlordane	mg/kg	0.1		<0.1	-	-
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1		<0.1	-	-
			Alpha Endosulfan	mg/kg	0.1		<0.1	-	-
			p,p'-DDE	mg/kg	0.1		<0.1	-	-
			Dieldrin	mg/kg	0.1		<0.1	0.2	123
			Endrin	mg/kg	0.1		<0.1	0.2	113
			Beta Endosulfan	mg/kg	0.1		<0.1	-	-
			p,p'-DDD	mg/kg	0.1		<0.1	-	-
			Endrin aldehyde	mg/kg	0.1		<0.1	-	-
			Endosulfan sulphate	mg/kg	0.1		<0.1	-	-
			p,p'-DDT	mg/kg	0.1		<0.1	0.2	106
			Endrin ketone	mg/kg	0.1		<0.1	-	-
			Methoxychlor	mg/kg	0.1		<0.1	-	-
			Mirex	mg/kg	0.1		<0.1	-	-
			Total OC Pesticides	mg/kg	0.1		<0.1	-	-
			Total OC VIC EPA IWRG621	mg/kg	0.1		<0.1	-	-
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1		<0.1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-		0.46	-	92
SE281815.020	LB345201.004		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	90
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	101
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	100
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.1	0.2	<0.1	0.2	118
			Endrin	mg/kg	0.1	0.2	<0.1	0.2	93
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	77

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%
SE281815.020	LB345201.004		Endrin ketone	mg/kg	0.1	<0.1	<0.1	-	-
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
			Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			Total OC Pesticides	mg/kg	0.1	1.2	<0.1	-	-
			Total OC VIC EPA IWRG621	mg/kg	0.1	1.2	<0.1	-	-
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	0.6	<0.1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.46	0.45	-	92
SE281815.050	LB345204.026		Alpha BHC	mg/kg	0.1		<0.1	-	-
			Hexachlorobenzene (HCB)	mg/kg	0.1		<0.1	-	-
			Beta BHC	mg/kg	0.1		<0.1	-	-
			Lindane (gamma BHC)	mg/kg	0.1		<0.1	-	-
			Delta BHC	mg/kg	0.1		<0.1	0.2	103
			Heptachlor	mg/kg	0.1		<0.1	0.2	114
			Aldrin	mg/kg	0.1		<0.1	0.2	90
			Heptachlor epoxide	mg/kg	0.1		<0.1	-	-
			Gamma Chlordane	mg/kg	0.1		<0.1	-	-
			Alpha Chlordane	mg/kg	0.1		<0.1	-	-
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1		<0.1	-	-
			Alpha Endosulfan	mg/kg	0.1		<0.1	-	-
			p,p'-DDE	mg/kg	0.1		<0.1	-	-
			Dieldrin	mg/kg	0.1		<0.1	0.2	110
			Endrin	mg/kg	0.1		<0.1	0.2	113
			Beta Endosulfan	mg/kg	0.1		<0.1	-	-
			p,p'-DDD	mg/kg	0.1		<0.1	-	-
			Endrin aldehyde	mg/kg	0.1		<0.1	-	-
			Endosulfan sulphate	mg/kg	0.1		<0.1	-	-
			p,p'-DDT	mg/kg	0.1		<0.1	0.2	102
			Endrin ketone	mg/kg	0.1		<0.1	-	-
			Methoxychlor	mg/kg	0.1		<0.1	-	-
			Mirex	mg/kg	0.1		<0.1	-	-
			Total OC Pesticides	mg/kg	0.1		<0.1	-	-
			Total OC VIC EPA IWRG621	mg/kg	0.1		<0.1	-	-
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1		<0.1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-		0.45	-	94
SE281815.060	LB345205.026		Alpha BHC	mg/kg	0.1		<0.1	-	-
			Hexachlorobenzene (HCB)	mg/kg	0.1		<0.1	-	-
			Beta BHC	mg/kg	0.1		<0.1	-	-
			Lindane (gamma BHC)	mg/kg	0.1		<0.1	-	-
			Delta BHC	mg/kg	0.1		<0.1	0.2	96
			Heptachlor	mg/kg	0.1		<0.1	0.2	115
			Aldrin	mg/kg	0.1		<0.1	0.2	102
			Heptachlor epoxide	mg/kg	0.1		<0.1	-	-
			Gamma Chlordane	mg/kg	0.1		<0.1	-	-
			Alpha Chlordane	mg/kg	0.1		<0.1	-	-
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1		<0.1	-	-
			Alpha Endosulfan	mg/kg	0.1		<0.1	-	-
			p,p'-DDE	mg/kg	0.1		0.2	-	-
			Dieldrin	mg/kg	0.1		0.2	0.2	62
			Endrin	mg/kg	0.1		<0.1	0.2	119
			Beta Endosulfan	mg/kg	0.1		<0.1	-	-
			p,p'-DDD	mg/kg	0.1		<0.1	-	-
			Endrin aldehyde	mg/kg	0.1		<0.1	-	-
			Endosulfan sulphate	mg/kg	0.1		<0.1	-	-
			p,p'-DDT	mg/kg	0.1		<0.1	0.2	82
			Endrin ketone	mg/kg	0.1		<0.1	-	-
			Methoxychlor	mg/kg	0.1		<0.1	-	-
			Mirex	mg/kg	0.1		<0.1	-	-
			Total OC Pesticides	mg/kg	0.1		0.4	-	-
			Total OC VIC EPA IWRG621	mg/kg	0.1		0.4	-	-
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1		<0.1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-		0.44	-	88

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%
SE281815.077	LB345370.004		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	91
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	82
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	91
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Chlordane (alpha + gamma chlordane)	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.1	0.2	<0.1	0.2	105
			Endrin	mg/kg	0.1	0.2	<0.1	0.2	93
			Beta Endosulfan	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.1	<0.1	0.2	65
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	-	-
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
			Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			Total OC Pesticides	mg/kg	0.1	1.1	<0.1	-	-
			Total OC VIC EPA IWRG621	mg/kg	0.1	1.1	<0.1	-	-
			Total Other OCP VIC EPA IWRG621	mg/kg	0.1	0.5	<0.1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.46	0.49	-	93

OP Pesticides in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE281815.004	LB345199.027		Azinphos-methyl (Guthion)	mg/kg	0.2		<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2		<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2		<0.2	2	121
			Diazinon (Dimpylate)	mg/kg	0.5		<0.5	2	114
			Dichlorvos	mg/kg	0.5		<0.5	2	122
			Dimethoate	mg/kg	0.5		<0.5	-	-
			Ethion	mg/kg	0.2		<0.2	2	114
			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	-	-
			Total OP Pesticides*	mg/kg	1.7		<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-		0.5	-	92
			d14-p-terphenyl (Surrogate)	mg/kg	-		0.5	-	89
SE281815.050	LB345204.026		Azinphos-methyl (Guthion)	mg/kg	0.2		<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2		<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2		<0.2	2	130
			Diazinon (Dimpylate)	mg/kg	0.5		<0.5	2	115
			Dichlorvos	mg/kg	0.5		<0.5	2	121
			Dimethoate	mg/kg	0.5		<0.5	-	-
			Ethion	mg/kg	0.2		<0.2	2	104
			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	-	-
			Total OP Pesticides*	mg/kg	1.7		<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-		0.4	-	90
			d14-p-terphenyl (Surrogate)	mg/kg	-		0.4	-	91
SE281815.060	LB345205.026		Azinphos-methyl (Guthion)	mg/kg	0.2		<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2		<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2		<0.2	2	124

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE281815.060	LB345205.026		Diazinon (Dimpylate)	mg/kg	0.5		<0.5	2	114
			Dichlorvos	mg/kg	0.5		<0.5	2	112
			Dimethoate	mg/kg	0.5		<0.5	-	-
			Ethion	mg/kg	0.2		<0.2	2	116
			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	-	-
			Total OP Pesticides*	mg/kg	1.7		<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-		0.4	-	85
			d14-p-terphenyl (Surrogate)	mg/kg	-		0.4	-	85
SE281815.077	LB345370.004		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.0	<0.2	2	101
			Diazinon (Dimpylate)	mg/kg	0.5	2.4	<0.5	2	118
			Dichlorvos	mg/kg	0.5	2.1	<0.5	2	103
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	2.0	<0.2	2	98
			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	8.4	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	-	86
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	95

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE281815.004	LB345199.027		Naphthalene	mg/kg	0.1		<0.1	4	103
			2-methylnaphthalene	mg/kg	0.1		<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1		<0.1	-	-
			Acenaphthylene	mg/kg	0.1		<0.1	4	101
			Acenaphthene	mg/kg	0.1		<0.1	4	104
			Fluorene	mg/kg	0.1		<0.1	-	-
			Phenanthrene	mg/kg	0.1		<0.1	4	109
			Anthracene	mg/kg	0.1		<0.1	4	106
			Fluoranthene	mg/kg	0.1		<0.1	4	108
			Pyrene	mg/kg	0.1		<0.1	4	106
			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(b&j&k)fluoranthene	mg/kg	0.2		<0.2	-	-
			Benzo(a)pyrene	mg/kg	0.1		<0.1	4	114
			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*	mg/kg	0.2		<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2		<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3		<0.3	-	-
			Total PAH (18)	mg/kg	0.1		<0.1	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-		0.47	-	94
			2-fluorobiphenyl (Surrogate)	mg/kg	-		0.45	-	92
			d14-p-terphenyl (Surrogate)	mg/kg	-		0.45	-	89
SE281815.050	LB345204.026		Naphthalene	mg/kg	0.1		<0.1	4	105
			2-methylnaphthalene	mg/kg	0.1		<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1		<0.1	-	-
			Acenaphthylene	mg/kg	0.1		<0.1	4	110
			Acenaphthene	mg/kg	0.1		<0.1	4	106
			Fluorene	mg/kg	0.1		<0.1	-	-
			Phenanthrene	mg/kg	0.1		<0.1	4	108

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%
SE281815.050	LB345204.026		Anthracene	mg/kg	0.1		<0.1	4	111
			Fluoranthene	mg/kg	0.1		<0.1	4	112
			Pyrene	mg/kg	0.1		<0.1	4	111
			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(b&j&k)fluoranthene	mg/kg	0.2		<0.2	-	-
			Benzo(a)pyrene	mg/kg	0.1		<0.1	4	120
			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*	mg/kg	0.2		<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2		<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3		<0.3	-	-
			Total PAH (18)	mg/kg	0.1		<0.1	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-		0.55	-	113
			2-fluorobiphenyl (Surrogate)	mg/kg	-		0.45	-	90
			d14-p-terphenyl (Surrogate)	mg/kg	-		0.42	-	91
SE281815.060	LB345205.026		Naphthalene	mg/kg	0.1		<0.1	4	100
			2-methylnaphthalene	mg/kg	0.1		<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1		<0.1	-	-
			Acenaphthylene	mg/kg	0.1		<0.1	4	115
			Acenaphthene	mg/kg	0.1		<0.1	4	100
			Fluorene	mg/kg	0.1		<0.1	-	-
			Phenanthrene	mg/kg	0.1		<0.1	4	125
			Anthracene	mg/kg	0.1		<0.1	4	109
			Fluoranthene	mg/kg	0.1		<0.1	4	110
			Pyrene	mg/kg	0.1		<0.1	4	111
			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(b&j&k)fluoranthene	mg/kg	0.2		<0.2	-	-
			Benzo(a)pyrene	mg/kg	0.1		<0.1	4	122
			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*	mg/kg	0.2		<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2		<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3		<0.3	-	-
			Total PAH (18)	mg/kg	0.1		<0.1	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-		0.50	-	104
			2-fluorobiphenyl (Surrogate)	mg/kg	-		0.42	-	85
			d14-p-terphenyl (Surrogate)	mg/kg	-		0.43	-	85
SE281815.077	LB345370.004		Naphthalene	mg/kg	0.1	4.2	<0.1	4	105
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			Acenaphthylene	mg/kg	0.1	4.3	<0.1	4	108
			Acenaphthene	mg/kg	0.1	4.3	<0.1	4	107
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.5	<0.1	4	113
			Anthracene	mg/kg	0.1	4.6	<0.1	4	114
			Fluoranthene	mg/kg	0.1	4.6	<0.1	4	116
			Pyrene	mg/kg	0.1	4.6	<0.1	4	115
			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(b&j&k)fluoranthene	mg/kg	0.2	<0.2	<0.2	-	-
			Benzo(a)pyrene	mg/kg	0.1	5.1	<0.1	4	127

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%
SE281815.077	LB345370.004		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*	mg/kg	0.2	5.1	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	5.2	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	5.2	<0.3	-	-
			Total PAH (18)	mg/kg	0.1	36	<0.1	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.47	0.51	-	94
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.43	0.48	-	86
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.47	0.49	-	95

PCBs in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE281815.004	LB345199.027		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1260	mg/kg	0.1	0.4	<0.1	0.4	110
			Total PCBs	mg/kg	0.1	0.4	<0.1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.46	0.46	-	92
SE281815.050	LB345204.026		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1260	mg/kg	0.1	0.5	<0.1	0.4	113
			Total PCBs	mg/kg	0.1	0.5	<0.1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.47	0.45	-	94
SE281815.060	LB345205.026		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1260	mg/kg	0.1	0.4	<0.1	0.4	102
			Total PCBs	mg/kg	0.1	0.4	<0.1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.44	0.44	-	88
SE281815.077	LB345370.004		Arochlor 1016	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1221	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1232	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1242	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1248	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1254	mg/kg	0.1	<0.1	<0.1	-	-
			Arochlor 1260	mg/kg	0.1	0.4	<0.1	0.4	98
			Total PCBs	mg/kg	0.1	0.4	<0.1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0.46	0.49	-	93

Total Phenolics in Soil

Method: ME-(AU)-[ENV]AN295

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE281815.009	LB345471.004	Total Phenols	mg/kg	0.5	22	<0.5	20	110

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%
SE281815.001	LB345267.004	Arsenic, As	mg/kg	1	49	4	50	89
		Cadmium, Cd	mg/kg	0.3	43	<0.3	50	86
		Chromium, Cr	mg/kg	0.5	63	16	50	95
		Copper, Cu	mg/kg	0.5	67	23	50	86

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

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

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

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE281815.001	LB345267.004	Nickel, Ni	mg/kg	0.5	51	5.6	50	92
		Lead, Pb	mg/kg	1	61	20	50	82
		Zinc, Zn	mg/kg	2	70	23	50	93
SE281815.020	LB345269.004	Arsenic, As	mg/kg	1	43	1	50	82
		Cadmium, Cd	mg/kg	0.3	41	<0.3	50	83
		Chromium, Cr	mg/kg	0.5	57	13	50	88
		Copper, Cu	mg/kg	0.5	50	7.3	50	86
		Nickel, Ni	mg/kg	0.5	48	3.9	50	89
		Lead, Pb	mg/kg	1	50	7	50	86
		Zinc, Zn	mg/kg	2	52	7	50	89
SE281815.039	LB345270.004	Arsenic, As	mg/kg	1	52	2	50	100
		Cadmium, Cd	mg/kg	0.3	47	<0.3	50	95
		Chromium, Cr	mg/kg	0.5	70	17	50	105
		Copper, Cu	mg/kg	0.5	61	12	50	99
		Nickel, Ni	mg/kg	0.5	55	4.0	50	102
		Lead, Pb	mg/kg	1	60	12	50	97
		Zinc, Zn	mg/kg	2	62	11	50	102
SE281815.058	LB345271.004	Arsenic, As	mg/kg	1	47	8	50	79
		Cadmium, Cd	mg/kg	0.3	43	<0.3	50	87
		Copper, Cu	mg/kg	0.5	66	32	50	69 ④
		Nickel, Ni	mg/kg	0.5	58	21	50	73
		Lead, Pb	mg/kg	1	62	33	50	57 ④
		Zinc, Zn	mg/kg	2	66	26	50	79
SE281815.077	LB345430.004	Arsenic, As	mg/kg	1	44	4	50	82
		Cadmium, Cd	mg/kg	0.3	42	<0.3	50	84
		Chromium, Cr	mg/kg	0.5	78	52	50	52 ④
		Copper, Cu	mg/kg	0.5	60	18	50	84
		Nickel, Ni	mg/kg	0.5	55	10	50	89
		Lead, Pb	mg/kg	1	54	12	50	85
		Zinc, Zn	mg/kg	2	60	16	50	89

TRH (Total Recoverable Hydrocarbons) in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE281815.004	LB345199.027		TRH C10-C14	mg/kg	20	44	<20	40	103
			TRH C15-C28	mg/kg	45	59	<45	40	101
			TRH C29-C36	mg/kg	45	62	<45	40	96
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	160	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	43	<25	40	100
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	43	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	103
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE281815.050	LB345204.026		TRH C10-C14	mg/kg	20	50	<20	40	120
			TRH C15-C28	mg/kg	45	57	<45	40	107
			TRH C29-C36	mg/kg	45	67	<45	40	106
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	170	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	48	<25	40	114
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	48	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	102
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE281815.060	LB345205.026		TRH C10-C14	mg/kg	20	49	<20	40	117
			TRH C15-C28	mg/kg	45	60	<45	40	124
			TRH C29-C36	mg/kg	45	51	<45	40	86
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	160	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	47	<25	40	109
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	47	<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%
SE281815.060	LB345205.026	TRH F Bands	TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	122
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE281815.077	LB345370.004		TRH C10-C14	mg/kg	20	37	<20	40	89
			TRH C15-C28	mg/kg	45	49	<45	40	104
			TRH C29-C36	mg/kg	45	56	<45	40	104
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	140	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	38	<25	40	90
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	38	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	116
			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%
SE281815.004	LB345202.004	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.5	<0.1	5	90
			Toluene	mg/kg	0.1	4.6	<0.1	5	91
			Ethylbenzene	mg/kg	0.1	4.7	<0.1	5	93
			m/p-xylene	mg/kg	0.2	9.4	<0.2	10	93
			o-xylene	mg/kg	0.1	4.8	<0.1	5	95
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.9	8.4	-	99
			d8-toluene (Surrogate)	mg/kg	-	9.1	7.9	-	91
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.6	8.3	-	86
		Totals	Total BTEX*	mg/kg	0.3	28	<0.3	-	-
			Total Xylenes*	mg/kg	0.3	14	<0.3	-	-
SE281815.071	LB345371.004	Monocyclic Aromatic	Benzene	mg/kg	0.1	4.2	<0.1	5	83
			Toluene	mg/kg	0.1	4.2	<0.1	5	83
			Ethylbenzene	mg/kg	0.1	4.3	<0.1	5	86
			m/p-xylene	mg/kg	0.2	8.2	<0.2	10	81
			o-xylene	mg/kg	0.1	4.2	<0.1	5	83
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10	8.4	-	100
			d8-toluene (Surrogate)	mg/kg	-	9.5	8.1	-	95
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.5	8.7	-	95
		Totals	Total BTEX*	mg/kg	0.3	25	<0.3	-	-
			Total Xylenes*	mg/kg	0.3	12	<0.3	-	-

VOCs in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE281802.005	LB345327.025	Monocyclic Aromatic	Benzene	µg/L	0.5	<0.5	45.45	115
			Toluene	µg/L	0.5	<0.5	45.45	116
			Ethylbenzene	µg/L	0.5	<0.5	45.45	113
			m/p-xylene	µg/L	1	<1	90.9	106
			o-xylene	µg/L	0.5	<0.5	45.45	105
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.5	-	101
			d8-toluene (Surrogate)	µg/L	-	9.2	-	101
			Bromofluorobenzene (Surrogate)	µg/L	-	10.7	-	94
		Totals	Total BTEX	µg/L	3	<3	-	-

Volatile Petroleum Hydrocarbons in Soil

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE281815.004	LB345202.004		TRH C6-C10	mg/kg	25	69	<25	92.5	74
			TRH C6-C9	mg/kg	20	63	<20	80	78
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.9	8.4	-	99
			d8-toluene (Surrogate)	mg/kg	-	9.1	7.9	-	91
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.6	8.3	-	86
		VPH F Bands	Benzene (F0)	mg/kg	0.1	4.5	<0.1	-	-
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	42	<25	62.5	65
SE281815.071	LB345371.004		TRH C6-C10	mg/kg	25	64	<25	92.5	68
			TRH C6-C9	mg/kg	20	56	<20	80	70

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued)

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

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE281815.071	LB345371.004	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10	8.4	-	100
			d8-toluene (Surrogate)	mg/kg	-	9.5	8.1	-	95
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.5	8.7	-	95
		VPH F	Benzene (F0)	mg/kg	0.1	4.2	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	39	<25	62.5	61

Volatile Petroleum Hydrocarbons in Water

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

QC Sample	Sample Number		Parameter	Units	LOR	Original	Spike	Recovery%
SE281802.005	LB345327.025		TRH C6-C10	µg/L	50	<50	946.63	92
			TRH C6-C9	µg/L	40	<40	818.71	93
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.5	-	101
			d8-toluene (Surrogate)	µg/L	-	9.2	-	101
			Bromofluorobenzene (Surrogate)	µg/L	-	10.7	-	94
		VPH F	Benzene (F0)	µg/L	0.5	<0.5	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	639.67	89

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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GEOTECHNIQUE PTY LTD

1 LEMKO PLACE PENRITH NSW 2750

E-MAILED
23/4 @ 11.49

CHAIN OF CUSTODY

Results Required By: Normal Turnaround **Date:** Wednesday, 30 April 2025

Except pH Results Required By 24 hrs **Date:** Thursday, 24 April 2025

Your Reference No.: [redacted]

TO: SGS
UNIT 16, 33 MADDOX STREET
ALEXANDRIA NSW 2015

Sampled By: KB/YN Ref No: 20674/1 Project Manager: **ANWAR BARBHUYIA**

Location: Orange

	Location	Depth (m)	Date	Soil	Water	Material	Metals As Cd Cr Cu Pb Hg Ni Zn	pH	CEC	CL8 TRH BTEX PAH	CL10 Metals* TRH BTEX PAH	CL16 Metals* TRH BTEX PAH OC PCB	Be B Co Mn Se	Mn	BTEX	TRH & BTEX	PAH	OCP	OPP	OCP & PCB	OPP&PCB	OCP,OPP & PCB	Cyanide	VOC	Phenol	PFAS	TCLP PAH	TCLP	Metals (Retest)
1	TP101	0.0-0.1	15/04/2025	G		Clay	✓											✓												
	TP101	0.15-0.25	15/04/2025	G		Clay																								
2	TP102	0.0-0.1	15/04/2025	G		Clay	✓											✓												
	TP102	0.15-0.25	15/04/2025	G		Clay																								
3	TP103	0.0-0.1	15/04/2025	G		Silt	✓											✓												
	TP103	0.15-0.25	15/04/2025	G		Clay																								
4	BH104	0.0-0.1	15/04/2025	G		Silt		✓	✓			✓							✓											
5	TP105	0.0-0.15	15/04/2025	G		Clay	✓											✓												
6	TP105	0.25-0.35	15/04/2025	G		Clay	✓	✓	✓									✓												
7	TP106	0.05-0.2	15/04/2025	G		Clay	✓											✓												
8	TP106	0.25-0.35	15/04/2025	G		Clay	✓	✓	✓									✓												
9	TP107	0.0-0.15	15/04/2025	G		Clay						✓														✓				
	TP107	0.55-0.65	15/04/2025	G		Clay																								
10	TP108	0.0-0.15	15/04/2025	G		Clay	✓											✓												
11	TP108	0.25-0.35	15/04/2025	G		Clay	✓	✓	✓									✓												
12	TP109	0.0-0.15	16/04/2025	G		Clay	✓	✓	✓									✓												
13	TP110	0.0-0.1	16/04/2025	G		Clay	✓											✓												
14	TP111	0.0-0.1	17/04/2025	G		Clay	✓	✓	✓									✓												
15	TP111	0.15-0.25	17/04/2025	G		Clay	✓	✓	✓									✓												
16	TP112	0.0-0.15	16/04/2025	G		Clay	✓											✓												
17	TP113	0.0-0.1	17/04/2025	G		Clay		✓	✓			✓							✓											
18	TP114	0.0-0.1	17/04/2025	G		Clay	✓	✓	✓									✓												
19	BH115	0.0-0.1	16/04/2025	G		Silt	✓	✓	✓									✓												
20	BH116	0.0-0.1	16/04/2025	G		Silt	✓											✓												
21	TP117	0.0-0.15	16/04/2025	G		Clay	✓	✓	✓									✓												

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GEOTECHNIQUE PTY LTD

1 LEMKO PLACE PENRITH NSW 2750

CHAIN OF CUSTODY

Results Required By: Normal Turnaround **Date: Wednesday, 30 April 2025**

Except pH Results Required By 24 hrs **Date: Thursday, 24 April 2025**

Your Reference No.: [redacted]

TO: SGS
UNIT 16, 33 MADDOX STREET
ALEXANDRIA NSW 2015

Sampled By: KB/YN Ref No: 20674/1 Project Manager: **ANWAR BARBHUYIA**

Location: Orange

	Location	Depth (m)	Date	Soil	Water	Material	Metals As Cd Cr Cu Pb Hg Ni Zn	pH	CEC	CL8 TRH BTEX PAH	CL10 Metals* TRH BTEX PAH	CL16 Metals* TRH BTEX PAH OC PCB	Be B Co Mn Se	Mn	BTEX	TRH & BTEX	PAH	OCP	OPP	OCP & PCB	OPP&PCB	OCP,OPP & PCB	Cyanide	VOC	Phenol	PFAS	TCLP PAH	TCLP	Metals (Retest)
22	TP118	0.0-0.1	17/04/2025	G		Clay	✓											✓											
23	TP119	0.0-0.1	17/04/2025	G		Clay	✓											✓											
	TP119	0.15-0.25	17/04/2025	G		Clay																							
24	TP120	0.0-0.1	17/04/2025	G		Clay	✓	✓	✓									✓											
	TP120	0.15-0.25	17/04/2025	G		Clay																							
25	TP121	0.0-0.1	17/04/2025	G		Clay	✓											✓											
26	TP122	0.0-0.1	17/04/2025	G		Clay	✓											✓											
27	TP123	0.0-0.1	17/04/2025	G		Clay	✓	✓	✓									✓											
28	TP123	0.15-0.25	17/04/2025	G		Clay	✓	✓	✓									✓											
29	TP124	0.0-0.1	17/04/2025	G		Clay	✓											✓											
30	TP124	0.15-0.25	17/04/2025	G		Clay	✓	✓	✓									✓											
31	TP125	0.0-0.1	17/04/2025	G		Clay	✓											✓											
32	TP126	0.0-0.1	17/04/2025	G		Clay	✓											✓											
33	TP127	0.0-0.1	16/04/2025	G		Silt	✓	✓	✓									✓											
34	TP128	0.0-0.1	17/04/2025	G		Clay	✓											✓											
35	TP129	0.0-0.1	17/04/2025	G		Clay	✓											✓											
36	TP130	0.0-0.15	17/04/2025	G		Clay		✓	✓			✓							✓										
	TP130	0.55-0.65	17/04/2025	G		Clay																							
37	TP131	0.0-0.1	17/04/2025	G		Clay	✓											✓											
38	TP131	0.15-0.25	17/04/2025	G		Clay	✓	✓	✓									✓											
39	TP132	0.0-0.1	17/04/2025	G		Clay	✓											✓											
40	TP133	0.0-0.1	17/04/2025	G		Clay	✓	✓	✓									✓											
41	TP134	0.0-0.15	16/04/2025	G		Clay	✓											✓											
42	TP135	0.0-0.15	16/04/2025	G		Clay	✓											✓											
43	TP136	0.0-0.1	17/04/2025	G		Clay	✓											✓											

GEOTECHNIQUE PTY LTD

1 LEMKO PLACE PENRITH NSW 2750

CHAIN OF CUSTODY

Results Required By: Normal Turnaround **Date: Wednesday, 30 April 2025**

Except pH Results Required By 24 hrs **Date: Thursday, 24 April 2025**

Your Reference No.: [redacted]

TO: SGS
UNIT 16, 33 MADDOX STREET
ALEXANDRIA NSW 2015

Sampled By: KB/YN Ref No: 20674/1 Project Manager: **ANWAR BARBHUYIA**

Location: Orange

	Location	Depth (m)	Date	Soil	Water	Material	Metals As Cd Cr Cu Pb Hg Ni Zn	pH	CEC	CL8 TRH BTEX PAH	CL10 Metals* TRH BTEX PAH	CL16 Metals* TRH BTEX PAH OC PCB	Be B Co Mn Se	Mn	BTEX	TRH & BTEX	PAH	OCP	OPP	OCP & PCB	OPP&PCB	OCP,OPP & PCB	Cyanide	VOC	Phenol	PFAS	TCLP PAH	TCLP	Metals (Retest)
	TP136	0.15-0.25	17/04/2025	G		Clay																							
44	TP137	0.0-0.1	17/04/2025	G		Clay	✔											✔											
45	TP138	0.0-0.1	16/04/2025	G		Silt	✔											✔											
46	TP139	0.0-0.1	16/04/2025	G		Silt	✔	✔	✔									✔											
47	TP140	0.0-0.1	16/04/2025	G		Silt	✔											✔											
48	TP141	0.0-0.15	16/04/2025	G		Clay		✔	✔			✔							✔										
	TP141	0.55-0.65	16/04/2025	G		Clay																							
49	TP142	0.0-0.15	16/04/2025	G		Clay						✔							✔										
	TP142	0.45-0.55	16/04/2025	G		Clay																							
50	TP143	0.0-0.15	16/04/2025	G		Clay		✔	✔			✔							✔										
	TP143	0.55-0.65	16/04/2025	G		Clay																							
51	TP144	0.0-0.15	16/04/2025	G		Clay	✔											✔											
52	TP145	0.0-0.15	16/04/2025	G		Clay	✔	✔	✔									✔											
53	TP146	0.0-0.15	16/04/2025	G		Clay	✔											✔											
54	TP147	0.0-0.15	16/04/2025	G		Clay	✔											✔											
55	TP148	0.0-0.15	16/04/2025	G		Clay		✔	✔			✔							✔										
56	TP148	0.55-0.65	16/04/2025	G		Clay		✔	✔			✔							✔										
57	TP149	0.0-0.15	16/04/2025	G		Clay	✔	✔	✔									✔											
58	TP150	0.0-0.1	17/04/2025	G		Clay		✔	✔			✔																	
59	TP150	0.15-0.25	17/04/2025	G		Clay		✔	✔			✔																	
60	TP151	0.0-0.3	15/04/2025	G		Clay		✔	✔			✔							✔										
61	TP151	0.5-0.8	15/04/2025	G		Clay		✔	✔			✔							✔										
62	TP151	0.85-0.95	15/04/2025	G		Clay		✔	✔			✔							✔										
63	TP152	0.0-0.3	15/04/2025	G		Clay		✔	✔			✔							✔										
64	TP152	0.5-0.8	15/04/2025	G		Clay		✔	✔			✔							✔										

GEOTECHNIQUE PTY LTD

1 LEMKO PLACE PENRITH NSW 2750

CHAIN OF CUSTODY

Results Required By: Normal Turnaround **Date: Wednesday, 30 April 2025**

Except pH Results Required By 24 hrs **Date: Thursday, 24 April 2025**

Your Reference No.: [redacted]

TO: SGS
UNIT 16, 33 MADDOX STREET
ALEXANDRIA NSW 2015

Sampled By: KB/YN Ref No: 20674/1 Project Manager: **ANWAR BARBHUYIA**

Location: Orange

	Location	Depth (m)	Date	Soil	Water	Material	Metals As Cd Cr Cu Pb Hg Ni Zn	pH	CEC	CL8 TRH BTEX PAH	CL10 Metals* TRH BTEX PAH	CL16 Metals* TRH BTEX PAH OC PCB	Be B Co Mn Se	Mn	BTEX	TRH & BTEX	PAH	OCP	OPP	OCP & PCB	OPP&PCB	OCP,OPP & PCB	Cyanide	VOC	Phenol	PFAS	TCLP PAH	TCLP	Metals (Retest)
	TP152	0.85-0.95	15/04/2025	G		Clay																							
65	TP153	0.0-0.15	15/04/2025	G		Clay		✓	✓			✓							✓										
66	TP153	0.5-0.8	15/04/2025	G		Clay	✓											✓	✓										
67	TP153	1.0-1.3	15/04/2025	G		Clay		✓	✓			✓							✓										
68	TP153	1.55-1.65	15/04/2025	G		Clay	✓											✓											
69	BH154	0.0-0.15	15/04/2025	G		Silt		✓	✓			✓							✓										
70	BH154	0.55-0.65	15/04/2025	G		Clay		✓	✓			✓							✓										
71	TP155	0.0-0.15	16/04/2025	G		Clay		✓	✓			✓							✓										
72	TP155	0.2-0.5	16/04/2025	G		Clay		✓	✓			✓							✓										
	TP155	0.55-0.65	16/04/2025	G		Clay																							
73	TP156	0.0-0.15	16/04/2025	G		Clay	✓											✓											
	TP156	0.25-0.35	16/04/2025	G		Clay																							
74	TP157	0.0-0.15	16/04/2025	G		Clay						✓							✓										
75	TP158	0.0-0.15	16/04/2025	G		Clay						✓							✓										
76	TP159	0.0-0.15	16/04/2025	G		Clay						✓							✓						✓				
	TP159	0.25-0.35	16/04/2025	G		Clay																							
77	TP160	0.0-0.15	16/04/2025	G		Clay						✓							✓						✓				
78	TP160	0.25-0.35	16/04/2025	G		Clay		✓	✓			✓							✓										
78	TP161	0.0-0.15	16/04/2025	G		Clay						✓							✓										
79	TP162	0.0-0.15	16/04/2025	G		Clay						✓																	
80	TP163	0.0-0.15	16/04/2025	G		Clay						✓							✓										
81	BH164	0.0-0.1	16/04/2025	G		Clay						✓							✓										
82	TP165	0.0-0.1	16/04/2025	G		Silt		✓	✓			✓																	
83	DDS1		15/04/2025	G		Clay	✓											✓											
84	DDS2		16/04/2025	G		Clay						✓							✓										

GEOTECHNIQUE PTY LTD

1 LEMKO PLACE PENRITH NSW 2750

CHAIN OF CUSTODY

Results Required By: Normal Turnaround **Date: Wednesday, 30 April 2025**

Except pH Results Required By 24 hrs **Date: Thursday, 24 April 2025**

Your Reference No.: [redacted]

TO: SGS
UNIT 16, 33 MADDOX STREET
ALEXANDRIA NSW 2015

Sampled By: KB/YN Ref No: 20674/1 Project Manager: **ANWAR BARBHUYIA**

Location: Orange

	Location	Depth (m)	Date	Soil	Water	Material	Metals As Cd Cr Cu Pb Hg Ni Zn	pH	CEC	CL8 TRH BTEX PAH	CL10 Metals* TRH BTEX PAH	CL16 Metals* TRH BTEX PAH OC PCB	Be B Co Mn Se	Mn	BTEX	TRH & BTEX	PAH	OCP	OPP	OCP & PCB	OPP&PCB	OCP,OPP & PCB	Cyanide	VOC	Phenol	PFAS	TCLP PAH	TCLP	Metals (Retest)
85	DDS3		16/04/2025	G		Silt	✔											✔												
86	DDS4		14/04/2025	G		Clay						✔							✔											
87	DDS5		17/04/2025	G		Clay	✔											✔												
88	DDS6		17/04/2025	G		Clay						✔							✔											
89	RS1		15/04/2025		Vial+WG						✔																			
90	RS2		16/04/2025		Vial+WG						✔																			
91	RS3		17/04/2025		Vial+WG						✔																			
92	TS1		15/04/2025	Vial											✔															
93	TS2		16/04/2025	Vial											✔															
94	TS3		17/04/2025	Vial											✔															

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	Date
ANWAR BARBHUYIA	A.B	23/04/2025	Joel K	[signature]	22/4/25 @ [redacted] 2:25

WG: Water sample (glass bottle) G Soil sample (glass jar) FCP Fibro Cement Piece (plastic bag)
WP: Water sample (plastic bottle) P Soil sample (plastic bag) ✔ Test required

SAMPLE RECEIPT ADVICE

SE281815

CLIENT DETAILS

Contact	Anwar Barbhuyia
Client	Geotechnique
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	anwar@geotech.com.au
Project	**20674/1 Orange**
Order Number	**20674/1**
Samples	94

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Tue 22/4/2025
Report Due	Wed 30/4/2025
SGS Reference	**SE281815**

SUBMISSION DETAILS

This is to confirm that 94 samples were received on Tuesday 22/4/2025. Results are expected to be ready by COB Wednesday 30/4/2025.
Please quote SGS reference SE281815 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	91 Soil, 3 Water	Type of documentation received	COC
Date documentation received	23/4/2025@11:49am	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.4°C
Sample container provider	SGS	Turnaround time requested	Next Day/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

PH due on 24/04/2025
23 soil samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.
TP160_0.25-0.35 sample not received.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

SAMPLE RECEIPT ADVICE

SE281815

CLIENT DETAILS

Client Geotechnique

Project 20674/1 Orange

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Phenolics in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
001	TP101 0.0-0.1	27	-	-	-	-	-	-	-
002	TP102 0.0-0.1	27	-	-	-	-	-	-	-
003	TP103 0.0-0.1	27	-	-	-	-	-	-	-
004	TP104 0.0-0.1	27	14	27	9	-	10	11	7
005	TP105 0.0-0.15	27	-	-	-	-	-	-	-
006	TP105 0.25-0.35	27	-	-	-	-	-	-	-
007	TP106 0.05-0.2	27	-	-	-	-	-	-	-
008	TP106 0.25-0.35	27	-	-	-	-	-	-	-
009	TP107 0.0-0.15	27	-	27	9	1	10	11	7
010	TP108 0.0-0.15	27	-	-	-	-	-	-	-
011	TP108 0.25-0.35	27	-	-	-	-	-	-	-
012	TP109 0.0-0.15	27	-	-	-	-	-	-	-
013	TP110 0.0-0.1	27	-	-	-	-	-	-	-
014	TP111 0.0-0.1	27	-	-	-	-	-	-	-
015	TP111 0.15-0.25	27	-	-	-	-	-	-	-
016	TP112 0.0-0.15	27	-	-	-	-	-	-	-
017	TP113 0.0-0.1	27	14	27	9	-	10	11	7
018	TP114 0.0-0.1	27	-	-	-	-	-	-	-
019	TP115 0.0-0.1	27	-	-	-	-	-	-	-
020	TP116 0.0-0.1	27	-	-	-	-	-	-	-
021	TP117 0.0-0.15	27	-	-	-	-	-	-	-
022	TP118 0.0-0.1	27	-	-	-	-	-	-	-
023	TP119 0.0-0.1	27	-	-	-	-	-	-	-
024	TP120 0.0-0.1	27	-	-	-	-	-	-	-

CONTINUED OVERLEAF

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Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE281815

CLIENT DETAILS

Client Geotechnique

Project 20674/1 Orange

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
025	TP121 0.0-0.1	27	-	-	-	-	-	-
026	TP122 0.0-0.1	27	-	-	-	-	-	-
027	TP123 0.0-0.1	27	-	-	-	-	-	-
028	TP123 0.15-0.25	27	-	-	-	-	-	-
029	TP124 0.0-0.1	27	-	-	-	-	-	-
030	TP124 0.15-0.25	27	-	-	-	-	-	-
031	TP125 0.0-0.1	27	-	-	-	-	-	-
032	TP126 0.0-0.1	27	-	-	-	-	-	-
033	TP127 0.0-0.1	27	-	-	-	-	-	-
034	TP128 0.0-0.1	27	-	-	-	-	-	-
035	TP129 0.0-0.1	27	-	-	-	-	-	-
036	TP130 0.0-0.15	27	14	27	9	10	11	7
037	TP131 0.0-0.1	27	-	-	-	-	-	-
038	TP131 0.15-0.25	27	-	-	-	-	-	-
039	TP132 0.0-0.1	27	-	-	-	-	-	-
040	TP133 0.0-0.1	27	-	-	-	-	-	-
041	TP134 0.0-0.15	27	-	-	-	-	-	-
042	TP135 0.0-0.15	27	-	-	-	-	-	-
043	TP136 0.0-0.1	27	-	-	-	-	-	-
044	TP137 0.0-0.1	27	-	-	-	-	-	-
045	TP138 0.0-0.1	27	-	-	-	-	-	-
046	TP139 0.0-0.1	27	-	-	-	-	-	-
047	TP140 0.0-0.1	27	-	-	-	-	-	-
048	TP141 0.0-0.15	27	14	27	9	10	11	7

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE281815

CLIENT DETAILS

Client Geotechnique

Project 20674/1 Orange

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Phenolics in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
049	TP142 0.0-0.15	27	14	27	9	-	10	11	7
050	TP143 0.0-0.15	27	14	27	9	1	10	11	7
051	TP144 0.0-0.15	27	-	-	-	-	-	-	-
052	TP145 0.0-0.15	27	-	-	-	-	-	-	-
053	TP146 0.0-0.15	27	-	-	-	-	-	-	-
054	TP147 0.0-0.15	27	-	-	-	-	-	-	-
055	TP148 0.0-0.15	27	14	27	9	-	10	11	7
056	TP148 0.55-0.65	27	14	27	9	-	10	11	7
057	TP149 0.0-0.15	27	-	-	-	-	-	-	-
058	TP150 0.0-0.1	27	-	27	9	-	10	11	7
059	TP150 0.15-0.25	27	-	27	9	-	10	11	7
060	TP151 0.0-0.3	27	14	27	9	-	10	11	7
061	TP151 0.5-0.8	27	14	27	9	-	10	11	7
062	TP151 0.85-0.95	27	14	27	9	-	10	11	7
063	TP152 0.0-0.3	27	14	27	9	-	10	11	7
064	TP152 0.5-0.8	27	14	27	9	-	10	11	7
065	TP153 0.0-0.15	27	14	27	9	-	10	11	7
066	TP153 0.5-0.8	27	14	-	-	-	-	-	-
067	TP153 1.0-1.3	27	14	27	9	-	10	11	7
068	TP153 1.55-1.65	27	-	-	-	-	-	-	-
069	TP154 0.0-0.15	27	14	27	9	-	10	11	7
070	TP154 0.55-0.65	27	14	27	9	-	10	11	7
071	TP155 0.0-0.15	27	14	27	9	-	10	11	7
072	TP155 0.2-0.5	27	14	27	9	-	10	11	7

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE281815

CLIENT DETAILS

Client Geotechnique

Project 20674/1 Orange

SUMMARY OF ANALYSIS

No.	Sample ID	OC Pesticides in Soil	OP Pesticides in Soil	PAH (Polynuclear Aromatic Hydrocarbons) in Soil	PCBs in Soil	Total Phenolics in Soil	TRH (Total Recoverable Hydrocarbons) in Soil	VOC's in Soil	Volatile Petroleum Hydrocarbons in Soil
073	TP156 0.0-0.15	27	-	-	-	-	-	-	-
074	TP157 0.0-0.15	27	14	27	9	-	10	11	7
075	TP158 0.0-0.15	27	14	27	9	-	10	11	7
076	TP159 0.0-0.15	27	14	27	9	1	10	11	7
077	TP160 0.0-0.15	27	14	27	9	1	10	11	7
078	TP161 0.0-0.15	27	14	27	9	-	10	11	7
079	TP162 0.0-0.15	27	-	27	9	-	10	11	7
080	TP163 0.0-0.15	27	14	27	9	-	10	11	7
081	TP164 0.0-0.1	27	14	27	9	-	10	11	7
082	TP165 0.0-0.1	27	-	27	9	-	10	11	7
083	DDS1	27	-	-	-	-	-	-	-
084	DDS2	27	14	27	9	-	10	11	7
085	DDS3	27	-	-	-	-	-	-	-
086	DDS4	27	14	27	9	-	10	11	7
087	DDS5	27	-	-	-	-	-	-	-
088	DDS6	27	14	27	9	-	10	11	7
092	TS1	-	-	-	-	-	-	11	-
093	TS2	-	-	-	-	-	-	11	-
094	TS3	-	-	-	-	-	-	11	-

CONTINUED OVERLEAF

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SAMPLE RECEIPT ADVICE

SE281815

CLIENT DETAILS

Client Geotechnique

Project 20674/1 Orange

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Mercury in Soil	Moisture Content	pH in soil (1:5)	Total Recoverable Elements in Soil/Waste
001	TP101 0.0-0.1	-	1	1	-	7
002	TP102 0.0-0.1	-	1	1	-	7
003	TP103 0.0-0.1	-	1	1	-	7
004	TP104 0.0-0.1	9	1	1	1	7
005	TP105 0.0-0.15	-	1	1	-	7
006	TP105 0.25-0.35	9	1	1	1	7
007	TP106 0.05-0.2	-	1	1	-	7
008	TP106 0.25-0.35	9	1	1	1	7
009	TP107 0.0-0.15	-	1	1	-	7
010	TP108 0.0-0.15	-	1	1	-	7
011	TP108 0.25-0.35	9	1	1	1	7
012	TP109 0.0-0.15	9	1	1	1	7
013	TP110 0.0-0.1	-	1	1	-	7
014	TP111 0.0-0.1	9	1	1	1	7
015	TP111 0.15-0.25	9	1	1	1	7
016	TP112 0.0-0.15	-	1	1	-	7
017	TP113 0.0-0.1	9	-	-	1	-
018	TP114 0.0-0.1	9	1	1	1	7
019	TP115 0.0-0.1	9	1	1	1	7
020	TP116 0.0-0.1	-	1	1	-	7
021	TP117 0.0-0.15	9	1	1	1	7
022	TP118 0.0-0.1	-	1	1	-	7
023	TP119 0.0-0.1	-	1	1	-	7
024	TP120 0.0-0.1	9	1	1	1	7

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
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SAMPLE RECEIPT ADVICE

SE281815

CLIENT DETAILS

Client Geotechnique

Project 20674/1 Orange

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Mercury in Soil	Moisture Content	pH in soil (1:5)	Total Recoverable Elements in Soil/Waste
025	TP121 0.0-0.1	-	1	1	-	7
026	TP122 0.0-0.1	-	1	1	-	7
027	TP123 0.0-0.1	9	1	1	1	7
028	TP123 0.15-0.25	9	1	1	1	7
029	TP124 0.0-0.1	-	1	1	-	7
030	TP124 0.15-0.25	9	1	1	1	7
031	TP125 0.0-0.1	-	1	1	-	7
032	TP126 0.0-0.1	-	1	1	-	7
033	TP127 0.0-0.1	9	1	1	1	7
034	TP128 0.0-0.1	-	1	1	-	7
035	TP129 0.0-0.1	-	1	1	-	7
036	TP130 0.0-0.15	9	1	1	1	7
037	TP131 0.0-0.1	-	1	1	-	7
038	TP131 0.15-0.25	9	1	1	1	7
039	TP132 0.0-0.1	-	1	1	-	7
040	TP133 0.0-0.1	9	1	1	1	7
041	TP134 0.0-0.15	-	1	1	-	7
042	TP135 0.0-0.15	-	1	1	-	7
043	TP136 0.0-0.1	-	1	1	-	7
044	TP137 0.0-0.1	-	1	1	-	7
045	TP138 0.0-0.1	-	1	1	-	7
046	TP139 0.0-0.1	9	1	1	1	7
047	TP140 0.0-0.1	-	1	1	-	7
048	TP141 0.0-0.15	9	1	1	1	7

CONTINUED OVERLEAF

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

SAMPLE RECEIPT ADVICE

SE281815

CLIENT DETAILS

Client Geotechnique

Project 20674/1 Orange

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Mercury in Soil	Moisture Content	pH in soil (1:5)	Total Recoverable Elements in Soil/Waste
049	TP142 0.0-0.15	-	1	1	-	7
050	TP143 0.0-0.15	9	1	1	1	7
051	TP144 0.0-0.15	-	1	1	-	7
052	TP145 0.0-0.15	9	1	1	1	7
053	TP146 0.0-0.15	-	1	1	-	7
054	TP147 0.0-0.15	-	1	1	-	7
055	TP148 0.0-0.15	9	1	1	1	7
056	TP148 0.55-0.65	9	1	1	1	7
057	TP149 0.0-0.15	9	1	1	1	7
058	TP150 0.0-0.1	9	1	1	1	7
059	TP150 0.15-0.25	9	1	1	1	7
060	TP151 0.0-0.3	9	1	1	1	7
061	TP151 0.5-0.8	9	1	1	1	7
062	TP151 0.85-0.95	9	1	1	1	7
063	TP152 0.0-0.3	9	1	1	1	7
064	TP152 0.5-0.8	9	1	1	1	7
065	TP153 0.0-0.15	9	1	1	1	7
066	TP153 0.5-0.8	-	1	1	-	7
067	TP153 1.0-1.3	9	1	1	1	7
068	TP153 1.55-1.65	-	1	1	-	7
069	TP154 0.0-0.15	9	1	1	1	7
070	TP154 0.55-0.65	9	1	1	1	7
071	TP155 0.0-0.15	9	1	1	1	7
072	TP155 0.2-0.5	9	1	1	1	7

CONTINUED OVERLEAF

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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

SE281815

CLIENT DETAILS

Client Geotechnique

Project 20674/1 Orange

SUMMARY OF ANALYSIS

No.	Sample ID	Exchangeable Cations and Cation Exchange Capacity	Mercury in Soil	Moisture Content	pH in soil (1:5)	Total Recoverable Elements in Soil/Waste	VOCs in Water	Volatile Petroleum Hydrocarbons in Water
073	TP156 0.0-0.15	-	1	1	-	7	-	-
074	TP157 0.0-0.15	-	1	1	-	7	-	-
075	TP158 0.0-0.15	-	1	1	-	7	-	-
076	TP159 0.0-0.15	-	1	1	-	7	-	-
077	TP160 0.0-0.15	-	1	1	-	7	-	-
078	TP161 0.0-0.15	-	1	1	-	7	-	-
079	TP162 0.0-0.15	-	1	1	-	7	-	-
080	TP163 0.0-0.15	-	1	1	-	7	-	-
081	TP164 0.0-0.1	-	1	1	-	7	-	-
082	TP165 0.0-0.1	9	1	1	1	7	-	-
083	DDS1	-	1	1	-	7	-	-
084	DDS2	-	1	1	-	7	-	-
085	DDS3	-	1	1	-	7	-	-
086	DDS4	-	1	1	-	7	-	-
087	DDS5	-	1	1	-	7	-	-
088	DDS6	-	1	1	-	7	-	-
089	RS1	-	-	-	-	-	11	7
090	RS2	-	-	-	-	-	11	7
091	RS3	-	-	-	-	-	11	7

CONTINUED OVERLEAF

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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

SE281815

CLIENT DETAILS

Client Geotechnique

Project 20674/1 Orange

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury (dissolved) in Water	Metals in Water (Dissolved) by ICPOES	PAH (Polynuclear Aromatic Hydrocarbons) in Water	TRH (Total Recoverable Hydrocarbons) in Water
089	RS1	1	7	22	9
090	RS2	1	7	22	9
091	RS3	1	7	22	9

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

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Anwar Barbhuyia
Client	Geotechnique
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	anwar@geotech.com.au
Project	**20674/1 Orange**
Order Number	**20674/1**
Samples	94

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE281815A R0**
Date Received	15/5/2025
Date Reported	15/5/2025

COMMENTS

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

SIGNATORIES

Dong LIANG

Metals/Inorganics Team Leader

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 15/5/2025

PARAMETER	UOM	LOR	TP113 SOIL 0.0-0.1 17/4/2025 SE281815A.017
Arsenic, As	mg/kg	1	**4**
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.5	**29**
Copper, Cu	mg/kg	0.5	**12**
Lead, Pb	mg/kg	1	**55**
Nickel, Ni	mg/kg	0.5	**5.3**
Zinc, Zn	mg/kg	0.5	**56**

Mercury in Soil [AN312] Tested: 15/5/2025

PARAMETER	UOM	LOR	TP113 SOIL 0.0-0.1 17/4/2025 SE281815A.017
Mercury	mg/kg	0.05	<0.05

METHOD	METHODOLOGY SUMMARY
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by AAS or ICP as per USEPA Method 200.8.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500

FOOTNOTES

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

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

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

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

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

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

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

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

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

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STATEMENT OF QA/QC PERFORMANCE

SE281815A R0

CLIENT DETAILS

Contact	Anwar Barbhuyia
Client	Geotechnique
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	anwar@geotech.com.au
Project	**20674/1 Orange**
Order Number	**20674/1**
Samples	94

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE281815A R0**
Date Received	15 May 2025
Date Reported	15 May 2025

COMMENTS

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

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

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Sample counts by matrix	1 Soil	Type of documentation received	Email
Date documentation received	15/5/2025@8:53am	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.4°C
Sample container provider	SGS	Turnaround time requested	Same Day
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

SE281815A R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury in Soil

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP113	SE281815A.017	LB347246	17 Apr 2025	15 May 2025	15 May 2025	15 May 2025	15 May 2025	15 May 2025

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

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

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP113	SE281815A.017	LB347245	17 Apr 2025	15 May 2025	14 Oct 2025	15 May 2025	14 Oct 2025	15 May 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

Mercury in Soil

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

Sample Number	Parameter	Units	LOR	Result
LB347246.001	Mercury	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
LB347245.001	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	0.5	<0.5

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury in Soil

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

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE281815A.017	LB347246.004	Mercury	mg/kg	0.05	<0.05	<0.05	145	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 %
SE281815A.017	LB347245.004	Arsenic, As	mg/kg	1	4	4	56	17
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	29	23	32	21
		Copper, Cu	mg/kg	0.5	12	12	34	1
		Nickel, Ni	mg/kg	0.5	5.3	4.8	40	9
		Lead, Pb	mg/kg	1	55	51	32	7
		Zinc, Zn	mg/kg	0.5	56	54	34	4

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 %
LB347246.002	Mercury	mg/kg	0.05	0.21	0.2	80 - 120	104

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 %
LB347245.002	Arsenic, As	mg/kg	1	350	318.22	80 - 120	109
	Cadmium, Cd	mg/kg	0.3	3.6	4.81	70 - 130	76
	Chromium, Cr	mg/kg	0.5	37	38.31	80 - 120	97
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	110
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	104
	Lead, Pb	mg/kg	1	94	89.9	80 - 120	105
	Zinc, Zn	mg/kg	0.5	290	273	80 - 120	104

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.

No matrix spikes were required for this job.

MATRIX SPIKE DUPLICATES

SE281815A R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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Hi GBS team.

Metals analysis was missed on this sample (#017). Please book urgent A job, same day TAT, so we can get these results to the client ASAP.
Thanks.

Matthew Tyler
Industries & Environment
Client Services Officer

SGS Australia Pty Ltd
Unit 16, 33 Maddox St
Alexandria NSW 2015

Phone: +61 2 8594 0400
Email: matthew.tyler@sgs.com
Visit: https://www.sgs.com/en-au

How did we go? Your feedback helps us to improve.

From: Kienan Brown <kienan@geotech.com.au>
Sent: Thursday, 15 May 2025 8:53 AM
To: AU.Environmental.Sydney, AU (Sydney) <AU.Environmental.Sydney@SGS.com>; Environmental Team <e@geotech.com.au>
Subject: [EXTERNAL] RE: Report Job SE281815, your reference 20674/1 Orange, order number 20674/1

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hi SGS Team,

I've just reviewed the report and data sheet provided. I didn't find the metal results for TP113 (0.0-0.1). Can you please confirm if the testing for this analyte has been completed (as per sample receipt).

Kind Regards,
Kienan Brown
Environmental Scientist
B.Sc. (Environmental)

PO BOX 880
Penrith NSW 2750
Tel: 02 4722 2744
Mob: 0472 704 397

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cm3 GREENCAP ONLINE RISK SOLUTIONS

From: AU.Environmental.Sydney@SGS.com <AU.Environmental.Sydney@SGS.com>
Sent: 01 May 2025 10:01 AM
To: Anwar Barbhuyia <anwar@geotech.com.au>; Environmental Team <e@geotech.com.au>
Subject: Report Job SE281815, your reference 20674/1 Orange, order number 20674/1

Dear Valued Customer,

Please find attached the report for SGS job SE281815, your reference 20674/1 Orange, order number 20674/1.

If you have any questions or concerns, please don't hesitate to contact your SGS Client Services representative.

Please provide any feedback you have on our service via this link
https://link.edgepilot.com/s/de1a6c89/sLGe2F2OTU_sT1B27gil8Q?u=https://sgssurveys.qualtrics.com/jfe/form/SV_6fbPVjB8TRGUXKC?utm_source=Feedback%26utm_medium=email%26utm_campaign=Survey

Best Regards,
SGS Alexandria Customer Service Team
SGS Australia Pty Ltd
Phone: +61 (0)2 8594 0400

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https://link.edgepilot.com/s/b6833557/tJG91wqtOEyYOh1mK-h6dg?u=https://www.sgs.com/en/terms-and-conditions

SAMPLE RECEIPT ADVICE

SE281815A

CLIENT DETAILS

Contact	Anwar Barbhuyia
Client	Geotechnique
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	anwar@geotech.com.au
Project	**20674/1 Orange**
Order Number	**20674/1**
Samples	94

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Thu 15/5/2025
Report Due	Thu 15/5/2025
SGS Reference	**SE281815A**

SUBMISSION DETAILS

This is to confirm that 94 samples were received on Thursday 15/5/2025. Results are expected to be ready by COB Thursday 15/5/2025.
Please quote SGS reference SE281815A when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	1 Soil	Type of documentation received	Email
Date documentation received	15/5/2025@8:53am	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.4°C
Sample container provider	SGS	Turnaround time requested	Same Day
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

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SAMPLE RECEIPT ADVICE

SE281815A

CLIENT DETAILS

Client Geotechnique

Project 20674/1 Orange

SUMMARY OF ANALYSIS

No.	Sample ID	Mercury in Soil	Total Recoverable Elements in Soil/Waste
017	TP113 0.0-0.1	1	7

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

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Anwar Barbhuyia
Client	Geotechnique
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	anwar@geotech.com.au
Project	**20674/1 Orange**
Order Number	**20674/1**
Samples	94

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE281815B R0**
Date Received	20/5/2025
Date Reported	21/5/2025

COMMENTS

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

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Shane MCDERMOTT
Laboratory Manager

Hexavalent Chromium in Soil UV/Vis [AN075/AN201] Tested: 20/5/2025

PARAMETER	UOM	LOR	TP145 SOIL 0.0-0.15 16/4/2025 SE281815B.052	TP150 SOIL 0.0-0.1 17/4/2025 SE281815B.058	TP150 SOIL 0.15-0.25 17/4/2025 SE281815B.059	TP153 SOIL 1.0-1.3 15/4/2025 SE281815B.067
Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	<0.5	**0.8**

METHOD	METHODOLOGY SUMMARY
AN075	This method uses an alkaline digestion to solubilise both water-soluble and water-insoluble forms of hexavalent chromium in solids. The solution is then pH adjusted and the hexavalent chromium concentration in solution determined colourimetrically.
AN201	Cr6+ is determined colourimetrically by reaction with diphenylcarbazide in acid solution. A red-violet colour of unknown composition is produced.

FOOTNOTES

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

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

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

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

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

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

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

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

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

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STATEMENT OF QA/QC PERFORMANCE

SE281815B R0

CLIENT DETAILS

Contact	Anwar Barbhuyia
Client	Geotechnique
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	anwar@geotech.com.au
Project	**20674/1 Orange**
Order Number	**20674/1**
Samples	94

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE281815B R0**
Date Received	20 May 2025
Date Reported	21 May 2025

COMMENTS

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

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

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

Extraction Date	Hexavalent Chromium in Soil UV/Vis	4 items

SAMPLE SUMMARY

Sample counts by matrix	4 Soil	Type of documentation received	Email
Date documentation received	20/5/2025@13:34pr	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.4°C
Sample container provider	SGS	Turnaround time requested	Next Day
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

SE281815B 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

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP145	SE281815B.052	LB347758	16 Apr 2025	20 May 2025	14 May 2025	20 May 2025†	27 May 2025	21 May 2025
TP150	SE281815B.058	LB347758	17 Apr 2025	20 May 2025	15 May 2025	20 May 2025†	27 May 2025	21 May 2025
TP150	SE281815B.059	LB347758	17 Apr 2025	20 May 2025	15 May 2025	20 May 2025†	27 May 2025	21 May 2025
TP153	SE281815B.067	LB347758	15 Apr 2025	20 May 2025	13 May 2025	20 May 2025†	27 May 2025	21 May 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

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

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Sample Number	Parameter	Units	LOR	Result
LB347758.001	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5

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

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE283136.001	LB347758.009	Hexavalent Chromium, Cr6+	mg/kg	0.5	0.646780942	0.5255095154	115	21

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.

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB347758.002	Hexavalent Chromium, Cr6+	mg/kg	0.5	18	20	70 - 130	91

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spikes were required for this job.

MATRIX SPIKE DUPLICATES

SE281815B R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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Outlook

FW: [EXTERNAL] RE: Report Job SE281815, your reference 20674/1 Orange, order number 20674/1

From AU.Environmental.Sydney, AU (Sydney) <AU.Environmental.Sydney@sgs.com>
Date Tue 5/20/2025 3:57 AM
To AU.SampleReceipt.GBS, AU (Alexandria) <AU.SampleReceipt.GBS@sgs.com>
Cc AU.Environmental.Sydney, AU (Sydney) <AU.Environmental.Sydney@sgs.com>; AU.SampleReceipt.Sydney, AU (Sydney) <AU.SampleReceipt.Sydney@sgs.com>

Hi GBS team.

Please book in urgent A job, 1 day TAT.
Thanks.

Matthew Tyler
Industries & Environment
Client Services Officer

SGS Australia Pty Ltd
Unit 16, 33 Maddox St
Alexandria NSW 2015

Phone: +61 2 8594 0400
Email: matthew.tyler@sgs.com
Visit: https://www.sgs.com/en-au

How did we go? Your feedback helps us to improve.

From: Kienan Brown <kienan@geotech.com.au>
Sent: Tuesday, 20 May 2025 1:34 PM
To: AU.Environmental.Sydney, AU (Sydney) <AU.Environmental.Sydney@sgs.com>
Cc: Environmental Team <e@geotech.com.au>
Subject: RE: [EXTERNAL] RE: Report Job SE281815, your reference 20674/1 Orange, order number 20674/1

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hi Matthew,

Can I please get a 24hr TAT for **Hexavalent Chromium Cr6+** for the following samples:

- TP145 (0.0-0.15)
- TP150 (0.0-0.1)
- TP150 (0.15-0.25)
- TP153 (1.0-1.3)

Kind Regards,
Kienan Brown
Environmental Scientist
B.Sc. (Environmental)

PO BOX 880
Penrith NSW 2750
Tel: 02 4722 2744
Mob: 0472 704 397

www.geotech.com.au

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cm3 GREENCAP ONLINE RISK SOLUTIONS

From: Kienan Brown
Sent: 15 May 2025 9:27 AM
To: 'AU.Environmental.Sydney, AU (Sydney)' <AU.Environmental.Sydney@sgs.com>
Cc: Environmental Team <e@geotech.com.au>
Subject: RE: [EXTERNAL] RE: Report Job SE281815, your reference 20674/1 Orange, order number 20674/1

Hi Matthew,

No dramas at all, cheers.

Kind Regards,
Kienan Brown
Environmental Scientist
B.Sc. (Environmental)

GEOTECHNIQUE® PTY LTD

PO BOX 880
Penrith NSW 2750
Tel: 02 4722 2744
Mob: 0472 704 397

www.geotech.com.au

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cm3 GREENCAP ONLINE RISK SOLUTIONS

From: AU.Environmental.Sydney, AU (Sydney) <AU.Environmental.Sydney@sgs.com>
Sent: 15 May 2025 9:22 AM
To: Kienan Brown <kienan@geotech.com.au>
Cc: AU.Environmental.Sydney, AU (Sydney) <AU.Environmental.Sydney@sgs.com>; Environmental Team <e@geotech.com.au>
Subject: RE: [EXTERNAL] RE: Report Job SE281815, your reference 20674/1 Orange, order number 20674/1

Hi Kienan.

So sorry about this, but it looks like the metals analysis was missed on this sample. I've asked the team to get this analysed ASAP, and we'll get these results out to you in an additional job later today.
Hope this helps, and apologies for any inconveniences caused.

Matthew Tyler
Industries & Environment
Client Services Officer

SGS Australia Pty Ltd
Unit 16, 33 Maddox St
Alexandria NSW 2015

Phone: +61 2 8594 0400
Email: matthew.tyler@sgs.com

Visit: https://link.edgepilot.com/s/98ee55b2/9M48w8R-C0S4T24FKVn2LQ?u=https://www.sgs.com/en-au

How did we go? Your feedback helps us to improve.

From: Kienan Brown <kienan@geotech.com.au>
Sent: Thursday, 15 May 2025 8:53 AM
To: AU.Environmental.Sydney, AU (Sydney) <AU.Environmental.Sydney@SGS.com>; Environmental Team <e@geotech.com.au>
Subject: [EXTERNAL] RE: Report Job SE281815, your reference 20674/1 Orange, order number 20674/1

*** WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments. ***

Hi SGS Team,

I've just reviewed the report and data sheet provided. I didn't find the metal results for TP113 (0.0-0.1). Can you please confirm if the testing for this analyte has been completed (as per sample receipt).

Kind Regards,
Kienan Brown
Environmental Scientist
B.Sc. (Environmental)

GEOTECHNIQUE® PTY LTD

PO BOX 880
Penrith NSW 2750
Tel: 02 4722 2744
Mob: 0472 704 397

https://link.edgepilot.com/s/7f2bf86d/8QyzR__iQk2Qmsn1kQY-SA?u=http://www.geotech.com.au/

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cm3 GREENCAP ONLINE RISK SOLUTIONS

From: AU.Environmental.Sydney@SGS.com <AU.Environmental.Sydney@SGS.com>
Sent: 01 May 2025 10:01 AM
To: Anwar Barbhuyia <anwar@geotech.com.au>; Environmental Team <e@geotech.com.au>
Subject: Report Job SE281815, your reference 20674/1 Orange, order number 20674/1

Dear Valued Customer,

Please find attached the report for SGS job SE281815, your reference 20674/1 Orange, order number 20674/1.

If you have any questions or concerns, please don't hesitate to contact your SGS Client Services representative.

Please provide any feedback you have on our service via this link https://link.edgepilot.com/s/de1a6c89/sLGe2F2OTU_sT1B27gil8Q?u=https://sgssurveys.qualtrics.com/jfe/form/SV_6fbPVjB8TRGUXKC?utm_source=Feedback%26utm_medium=email%26utm_campaign=Survey

Best Regards,
SGS Alexandria Customer Service Team
SGS Australia Pty Ltd
Phone: +61 (0)2 8594 0400

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SAMPLE RECEIPT ADVICE

SE281815B

CLIENT DETAILS

Contact	Anwar Barbhuyia
Client	Geotechnique
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	anwar@geotech.com.au
Project	**20674/1 Orange**
Order Number	**20674/1**
Samples	94

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Tue 20/5/2025
Report Due	Wed 21/5/2025
SGS Reference	**SE281815B**

SUBMISSION DETAILS

This is to confirm that 94 samples were received on Tuesday 20/5/2025. Results are expected to be ready by COB Wednesday 21/5/2025.
Please quote SGS reference SE281815B when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	4 Soil	Type of documentation received	Email
Date documentation received	20/5/2025@13:34pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	16.4°C
Sample container provider	SGS	Turnaround time requested	Next Day
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

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SAMPLE RECEIPT ADVICE

SE281815B

CLIENT DETAILS

Client Geotechnique

Project 20674/1 Orange

SUMMARY OF ANALYSIS

No.	Sample ID	Hexavalent Chromium in Soil UV/Vis
052	TP145 0.0-0.15	1
058	TP150 0.0-0.1	1
059	TP150 0.15-0.25	1
067	TP153 1.0-1.3	1

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

LOC 23/4/25, 1159

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

Job No: 378856

Date Received: 22/4/25
Time Received: 1615
Received By: LC
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

GEOTECHNIQUE PTY LTD

1 LEMKO PLACE PENRITH NSW 2750

CHAIN OF CUSTODY

Results Required By: Normal Turnaround **Date: Wednesday, 30 April 2025**

Except pH Results Required By [redacted] **Date:**

Your Reference No.:

TO: ENVIROLAB SERVICES PTY LTD
12 ASHLEY STREET
CHATSWOOD NSW 2067

Sampled By: KB/YN
Project Manager: ANWAR BARBHUYIA
Ref No: **20674/1**
Location: **Orange**

	Location	Depth (m)	Date	Soil	Material	Metals As Cd Cr Cu Pb Hg Ni Zn	TRH & BTEX	PAH	OCP	OP	PCB	PHENOL	CYANIDE	COMBO NO	PFAS (extended)	TCLP PFAS (water–routine level, short) (PFOS+PFHxS, PFOA)	COAL TAR (RTA Test Method T542)2
1	DSS1		16/04/2025	G		✓	✓	✓	✓	✓	✓			6			
2	DSS2		16/04/2025	G		✓	✓	✓	✓	✓	✓			6			
3	DSS3		16/04/2025	G		✓	✓	✓	✓		✓			5			
4	DSS4		17/04/2025	G		✓			✓								
5	DSS5		17/04/2025	G		✓			✓								
6	DSS6		17/04/2025	G		✓			✓								
7	TP107	0.0-0.15	15/04/2025	PFASC											✓		
8	TP159	0.0-0.15	16/04/2025	PFASC											✓		
9	TP160	0.0-0.15	16/04/2025	PFASC											✓		

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	Date
ANWAR BARBHUYIA	A.B	23/04/2025	Katherine Chavez	K.C	22/4/25

G	Soil sample (glass jar)	FCP	Fibro Cement Piece (plastic bag)	PFASC	PFAS Container	*: As,Cd,Cr,Cu,Pb,Hg,Ni & Zn (8 metals)
P	Soil sample (plastic bag)	✓	Test required			

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	Geotechnique Pty Ltd
Attention	Anwar Barbhuyia

Sample Login Details

Your reference	20674/1 Orange
Envirolab Reference	378856
Date Sample Received	23/04/2025
Date Instructions Received	23/04/2025
Date Results Expected to be Reported	30/04/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	9 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

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

Analysis Underway, details on the following page:

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Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Acid Extractable metalsin soil	PFAS in Soils Extended
DSS1	✓	✓	✓	✓	✓	✓	✓	
DSS2	✓	✓	✓	✓	✓	✓	✓	
DSS3	✓	✓	✓	✓		✓	✓	
DSS4				✓			✓	
DSS5				✓			✓	
DSS6				✓			✓	
TP107-0.0-0.15								✓
TP159-0.0-0.15								✓
TP160-0.0-0.15								✓

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

Additional Info

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

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CERTIFICATE OF ANALYSIS 378856

Client Details

Client	Geotechnique Pty Ltd
Attention	Anwar Barbhuyia
Address	PO Box 880, Penrith, NSW, 2751

Sample Details

Your Reference	**20674/1 Orange**
Number of Samples	9 Soil
Date samples received	23/04/2025
Date completed instructions received	23/04/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	30/04/2025
Date of Issue	30/04/2025

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

Results Approved By
Giovanni Agosti, Group Technical Manager
Jack Wallis, Senior Chemist
Liam Timmins, Organics Supervisor
Sean McAlary, Senior Chemist
Timothy Toll, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil				
Our Reference		378856-1	378856-2	378856-3
Your Reference	UNITS	DSS1	DSS2	DSS3
Depth		-	-	-
Date Sampled		16/04/2025	16/04/2025	16/04/2025
Type of sample		Soil	Soil	Soil
Date extracted	-	24/04/2025	24/04/2025	24/04/2025
Date analysed	-	28/04/2025	28/04/2025	28/04/2025
TRH C_6 - C_9	mg/kg	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	100	100	92

svTRH (C10-C40) in Soil				
Our Reference		378856-1	378856-2	378856-3
Your Reference	UNITS	DSS1	DSS2	DSS3
Depth		-	-	-
Date Sampled		16/04/2025	16/04/2025	16/04/2025
Type of sample		Soil	Soil	Soil
Date extracted	-	24/04/2025	24/04/2025	24/04/2025
Date analysed	-	25/04/2025	25/04/2025	25/04/2025
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50
Surrogate o-Terphenyl	%	82	84	83

PAHs in Soil				
Our Reference		378856-1	378856-2	378856-3
Your Reference	UNITS	DSS1	DSS2	DSS3
Depth		-	-	-
Date Sampled		16/04/2025	16/04/2025	16/04/2025
Type of sample		Soil	Soil	Soil
Date extracted	-	24/04/2025	24/04/2025	24/04/2025
Date analysed	-	28/04/2025	28/04/2025	28/04/2025
Naphthalene	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	93	90	92

Organochlorine Pesticides in soil						
Our Reference		378856-1	378856-2	378856-3	378856-4	378856-5
Your Reference	UNITS	DSS1	DSS2	DSS3	DSS4	DSS5
Depth		-	-	-	-	-
Date Sampled		16/04/2025	16/04/2025	16/04/2025	17/04/2025	17/04/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	24/04/2025	24/04/2025	24/04/2025	24/04/2025	24/04/2025
Date analysed	-	28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive Aldrin+Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	82	77	81	83	81

Organochlorine Pesticides in soil		
Our Reference		378856-6
Your Reference	UNITS	DSS6
Depth		-
Date Sampled		17/04/2025
Type of sample		Soil
Date extracted	-	24/04/2025
Date analysed	-	28/04/2025
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Mirex	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Total Positive Aldrin+Dieldrin	mg/kg	<0.1
Surrogate 4-Chloro-3-NBTF	%	80

Organophosphorus Pesticides in Soil			
Our Reference		378856-1	378856-2
Your Reference	UNITS	DSS1	DSS2
Depth		-	-
Date Sampled		16/04/2025	16/04/2025
Type of sample		Soil	Soil
Date extracted	-	24/04/2025	24/04/2025
Date analysed	-	28/04/2025	28/04/2025
Dichlorvos	mg/kg	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	82	77

PCBs in Soil				
Our Reference		378856-1	378856-2	378856-3
Your Reference	UNITS	DSS1	DSS2	DSS3
Depth		-	-	-
Date Sampled		16/04/2025	16/04/2025	16/04/2025
Type of sample		Soil	Soil	Soil
Date extracted	-	24/04/2025	24/04/2025	24/04/2025
Date analysed	-	28/04/2025	28/04/2025	28/04/2025
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	87	91	93

Acid Extractable metals in soil						
Our Reference		378856-1	378856-2	378856-3	378856-4	378856-5
Your Reference	UNITS	DSS1	DSS2	DSS3	DSS4	DSS5
Depth		-	-	-	-	-
Date Sampled		16/04/2025	16/04/2025	16/04/2025	17/04/2025	17/04/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/04/2025	24/04/2025	24/04/2025	24/04/2025	24/04/2025
Date analysed	-	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
Arsenic	mg/kg	29	6	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	11	53	19	37	21
Copper	mg/kg	51	37	8	28	11
Lead	mg/kg	11	27	7	11	9
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	10	11	4	4	3
Zinc	mg/kg	33	25	8	13	11

Acid Extractable metals in soil			
Our Reference		378856-6	378856-10
Your Reference	UNITS	DSS6	DSS2 - [TRIPLICATE]
Depth		-	-
Date Sampled		17/04/2025	16/04/2025
Type of sample		Soil	Soil
Date prepared	-	24/04/2025	24/04/2025
Date analysed	-	29/04/2025	29/04/2025
Arsenic	mg/kg	<4	9
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	60	32
Copper	mg/kg	17	38
Lead	mg/kg	21	15
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	9	14
Zinc	mg/kg	17	34

Moisture						
Our Reference		378856-1	378856-2	378856-3	378856-4	378856-5
Your Reference	UNITS	DSS1	DSS2	DSS3	DSS4	DSS5
Depth		-	-	-	-	-
Date Sampled		16/04/2025	16/04/2025	16/04/2025	17/04/2025	17/04/2025
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/04/2025	24/04/2025	24/04/2025	24/04/2025	24/04/2025
Date analysed	-	28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Moisture	%	3.6	7.9	8.5	7.4	9.3

Moisture					
Our Reference		378856-6	378856-7	378856-8	378856-9
Your Reference	UNITS	DSS6	TP107	TP159	TP160
Depth		-	0.0-0.15	0.0-0.15	0.0-0.15
Date Sampled		17/04/2025	17/04/2025	17/04/2025	17/04/2025
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	24/04/2025	24/04/2025	24/04/2025	24/04/2025
Date analysed	-	28/04/2025	28/04/2025	28/04/2025	28/04/2025
Moisture	%	12	9.4	9.0	12

PFAS in Soils Extended				
Our Reference		378856-7	378856-8	378856-9
Your Reference	UNITS	TP107	TP159	TP160
Depth		0.0-0.15	0.0-0.15	0.0-0.15
Date Sampled		17/04/2025	17/04/2025	17/04/2025
Type of sample		Soil	Soil	Soil
Date prepared	-	24/04/2025	24/04/2025	24/04/2025
Date analysed	-	24/04/2025	24/04/2025	24/04/2025
Perfluorobutanesulfonic acid	µg/kg	<0.1	<0.1	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1	<0.1	<0.1
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1	<0.1	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1	<0.1	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	<0.1	<0.1	<0.1
Perfluorodecanesulfonic acid	µg/kg	<0.2	<0.2	<0.2
Perfluorobutanoic acid	µg/kg	<0.2	<0.2	<0.2
Perfluoropentanoic acid	µg/kg	<0.2	<0.2	<0.2
Perfluorohexanoic acid	µg/kg	<0.1	<0.1	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1	<0.1	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1	<0.1	<0.1
Perfluorononanoic acid	µg/kg	<0.1	<0.1	<0.1
Perfluorodecanoic acid	µg/kg	<0.5	<0.5	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5	<0.5	<0.5
Perfluorododecanoic acid	µg/kg	<0.5	<0.5	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5	<0.5	<0.5
Perfluorotetradecanoic acid	µg/kg	<5	<5	<5
4:2 FTS	µg/kg	<0.1	<0.1	<0.1
6:2 FTS	µg/kg	<0.1	<0.1	<0.1
8:2 FTS	µg/kg	<0.2	<0.2	<0.2
10:2 FTS	µg/kg	<0.2	<0.2	<0.2
Perfluorooctane sulfonamide	µg/kg	<1	<1	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1	<1	<1
N-Ethyl perfluorooctanesulfon amide	µg/kg	<1	<1	<1
N-Me perfluorooctanesulfonamid oethanol	µg/kg	<1	<1	<1
N-Et perfluorooctanesulfonamid oethanol	µg/kg	<5	<5	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2	<0.2	<0.2
EtPerfluorooctanesulf amid oacetic acid	µg/kg	<0.2	<0.2	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	102	97	104
Surrogate $^{13}C_2$ *PFOA*	%	94	94	96
Extracted ISTD $^{13}C_3$ *PFBS*	%	88	87	93
Extracted ISTD $^{18}O_2$ *PFHxS*	%	93	93	94
Extracted ISTD $^{13}C_4$ *PFOS*	%	97	97	94

PFAS in Soils Extended				
Our Reference		378856-7	378856-8	378856-9
Your Reference	UNITS	TP107	TP159	TP160
Depth		0.0-0.15	0.0-0.15	0.0-0.15
Date Sampled		17/04/2025	17/04/2025	17/04/2025
Type of sample		Soil	Soil	Soil
Extracted ISTD $^{13}C_4$ *PFBA*	%	89	89	90
Extracted ISTD $^{13}C_3$ *PFPeA*	%	93	90	93
Extracted ISTD $^{13}C_2$ *PFHxA*	%	92	89	91
Extracted ISTD $^{13}C_4$ *PFHpA*	%	92	88	91
Extracted ISTD $^{13}C_4$ *PFOA*	%	105	100	100
Extracted ISTD $^{13}C_5$ *PFNA*	%	105	101	97
Extracted ISTD $^{13}C_2$ *PFDA*	%	107	101	96
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	110	103	100
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	115	106	105
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	141	136	119
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	114	103	99
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	108	106	94
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	131	118	98
Extracted ISTD $^{13}C_8$ *FOSA*	%	100	100	103
Extracted ISTD d_3 *N MeFOSA*	%	100	99	99
Extracted ISTD d_5 *N EtFOSA*	%	102	103	98
Extracted ISTD d_7 *N MeFOSE*	%	100	96	98
Extracted ISTD d_9 *N EtFOSE*	%	110	105	100
Extracted ISTD d_3 *N MeFOSAA*	%	109	98	85
Extracted ISTD d_5 *N EtFOSAA*	%	103	93	78
Total Positive PFHxS & PFOS	µg/kg	<0.1	<0.1	<0.1
Total Positive PFOS & PFOA	µg/kg	<0.1	<0.1	<0.1
Total Positive PFAS	µg/kg	<0.1	<0.1	<0.1

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES. Total Phosphate determined stochiometrically from Phosphorus (assumed to be present as Phosphate). Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021/022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD and/or GC-MS/GC-MSMS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			24/04/2025	2	24/04/2025	24/04/2025		24/04/2025	[NT]
Date analysed	-			28/04/2025	2	28/04/2025	28/04/2025		28/04/2025	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	2	<25	<25	0	91	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	2	<25	<25	0	91	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	2	<0.2	<0.2	0	98	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	2	<0.5	<0.5	0	91	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	2	<1	<1	0	85	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	2	<2	<2	0	90	[NT]
o-Xylene	mg/kg	1	Org-023	<1	2	<1	<1	0	89	[NT]
Naphthalene	mg/kg	1	Org-023	<1	2	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	101	2	100	99	1	102	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			24/04/2025	2	24/04/2025	24/04/2025		24/04/2025	[NT]
Date analysed	-			25/04/2025	2	25/04/2025	25/04/2025		25/04/2025	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	2	<50	<50	0	120	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	2	<100	<100	0	106	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	2	<100	<100	0	100	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	2	<50	<50	0	120	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	2	<100	<100	0	106	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	2	<100	<100	0	100	[NT]
Surrogate o-Terphenyl	%		Org-020	86	2	84	82	2	95	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			24/04/2025	2	24/04/2025	24/04/2025		24/04/2025	[NT]
Date analysed	-			28/04/2025	2	28/04/2025	28/04/2025		28/04/2025	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	74	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	78	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	72	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	84	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	82	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	82	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	88	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	2	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	2	<0.05	<0.05	0	68	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	95	2	90	92	2	106	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			24/04/2025	2	24/04/2025	24/04/2025		24/04/2025	[NT]
Date analysed	-			28/04/2025	2	28/04/2025	28/04/2025		28/04/2025	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	82	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	70	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	60	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	90	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	92	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	82	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	90	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	60	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	62	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	72	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	83	2	77	79	3	88	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			24/04/2025	2	24/04/2025	24/04/2025		24/04/2025	[NT]
Date analysed	-			28/04/2025	2	28/04/2025	28/04/2025		28/04/2025	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	86	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	88	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	64	[NT]
Malathion	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	90	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	88	[NT]
Fenthion	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	62	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	84	[NT]
Phosalone	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	83	2	77	79	3	88	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			24/04/2025	2	24/04/2025	24/04/2025		24/04/2025	[NT]
Date analysed	-			28/04/2025	2	28/04/2025	28/04/2025		28/04/2025	[NT]
Aroclor 1016	mg/kg	0.1	Org-021/022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	<0.1	2	<0.1	<0.1	0	70	[NT]
Aroclor 1260	mg/kg	0.1	Org-021/022/025	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	91	2	91	89	2	94	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date prepared	-			24/04/2025	2	24/04/2025	24/04/2025		24/04/2025	[NT]
Date analysed	-			29/04/2025	2	29/04/2025	29/04/2025		29/04/2025	[NT]
Arsenic	mg/kg	4	Metals-020	<4	2	6	4	40	104	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	2	<0.4	<0.4	0	94	[NT]
Chromium	mg/kg	1	Metals-020	<1	2	53	35	41	93	[NT]
Copper	mg/kg	1	Metals-020	<1	2	37	29	24	105	[NT]
Lead	mg/kg	1	Metals-020	<1	2	27	15	57	92	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	2	<0.1	<0.1	0	102	[NT]
Nickel	mg/kg	1	Metals-020	<1	2	11	10	10	94	[NT]
Zinc	mg/kg	1	Metals-020	<1	2	25	26	4	89	[NT]

QUALITY CONTROL: PFAS in Soils Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	378856-8
Date prepared	-			24/04/2025	7	24/04/2025	24/04/2025		24/04/2025	24/04/2025
Date analysed	-			24/04/2025	7	24/04/2025	24/04/2025		24/04/2025	24/04/2025
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	7	<0.1	<0.1	0	105	100
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	7	<0.1	<0.1	0	105	97
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	7	<0.1	<0.1	0	107	99
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	7	<0.1	<0.1	0	107	98
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	7	<0.1	<0.1	0	105	101
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	7	<0.2	<0.2	0	108	105
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	7	<0.2	<0.2	0	105	99
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	7	<0.2	<0.2	0	112	102
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	7	<0.1	<0.1	0	112	102
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	7	<0.1	<0.1	0	110	99
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	7	<0.1	<0.1	0	104	97
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	7	<0.1	<0.1	0	101	95
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	7	<0.5	<0.5	0	103	92
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	7	<0.5	<0.5	0	114	95
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	7	<0.5	<0.5	0	105	94
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	7	<0.5	<0.5	0	92	73
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	7	<5	<5	0	93	81
4:2 FTS	µg/kg	0.1	Org-029	<0.1	7	<0.1	<0.1	0	93	84
6:2 FTS	µg/kg	0.1	Org-029	<0.1	7	<0.1	<0.1	0	114	104
8:2 FTS	µg/kg	0.2	Org-029	<0.2	7	<0.2	<0.2	0	93	93
10:2 FTS	µg/kg	0.2	Org-029	<0.2	7	<0.2	<0.2	0	99	105
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	7	<1	<1	0	108	100
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	7	<1	<1	0	114	108
N-Ethyl perfluorooctanesulfon amide	µg/kg	1	Org-029	<1	7	<1	<1	0	106	106
N-Me perfluorooctanesulfonamid oethanol	µg/kg	1	Org-029	<1	7	<1	<1	0	121	122
N-Et perfluorooctanesulfonamid oethanol	µg/kg	5	Org-029	<5	7	<5	<5	0	104	108
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	7	<0.2	<0.2	0	105	97
EtPerfluorooctanesulf amid oacetic acid	µg/kg	0.2	Org-029	<0.2	7	<0.2	<0.2	0	106	96
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	104	7	102	102	0	101	105
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	86	7	94	92	2	94	97

QUALITY CONTROL: PFAS in Soils Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	378856-8
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-029	93	7	88	80	10	95	87
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	101	7	93	94	1	98	95
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	103	7	97	96	1	97	92
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	99	7	89	88	1	96	90
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	93	7	93	92	1	92	90
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	97	7	92	89	3	91	90
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	93	7	92	92	0	91	89
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	117	7	105	104	1	103	97
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	112	7	105	104	1	103	100
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	109	7	107	105	2	102	102
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	107	7	110	109	1	98	101
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	110	7	115	111	4	101	105
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	115	7	141	137	3	108	132
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	108	7	114	111	3	101	103
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	107	7	108	107	1	97	101
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	109	7	131	131	0	106	107
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	104	7	100	98	2	97	97
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	102	7	100	98	2	97	98
Extracted ISTD d_5 *N EtFOSA*	%		Org-029	101	7	102	101	1	100	99
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	102	7	100	98	2	97	97

QUALITY CONTROL: PFAS in Soils Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	378856-8
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	111	7	110	102	8	105	102
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	115	7	109	107	2	103	93
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	96	7	103	96	7	94	91

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

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

Report Comments

Acid Extractable Metals in Soil: The laboratory RPD acceptance criteria has been exceeded for 378856-2 for Cr and Pb. Therefore a triplicate result has been issued as laboratory sample number 378856-10.

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET126424 / 129604 / 1 – 19 out of 30
Your ref : 20674/1 – Redmond Place Orange
NATA Accreditation No: 14484

30 April 2025

Geotechnique Pty Ltd
1 Lemko Place
Penrith NSW 2751

Accredited for compliance with ISO/IEC 17025 - Testing.

Attn: Mr Anwar Barbhuyia

Dear Anwar

Asbestos Identification
This report presents the results of nineteen samples out of thirty samples, forwarded by Geotechnique Pty Ltd on 28 April 2025, for analysis for asbestos.

1.Introduction: Nineteen samples out of thirty samples forwarded were examined and analysed for the presence of asbestos on 28 & 29 April 2025.

2. Methods: The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method **(Australian Standard AS 4964 - 2004 and Safer Environment Method 1 as the supplementary work instruction) (Qualitative Analysis only).**

The report also provides approximate weights and percentages, categories of asbestos forms appearing in the sample, such as **AF** (Asbestos Fines), **FA** (Friable Asbestos) and **ACM** (Asbestos Containing Material), also satisfying the requirements of the NEPM Guidelines.

3. Results : **Sample No. 1. ASET126424 / 129604 / 1. 20674/1 - TP101 - 0.0-0.1.**
Approx dimensions 10.0 cm x 10.0 cm x 7.8 cm
Approximate total dry weight of soil = 922.0g.
The sample consisted of a mixture of clayish sandy soil, stones, organic fibres, sandstones and plant matter.
No asbestos detected.

Sample No. 2. ASET126424 / 129604 / 2. 20674/1 - TP102 - 0.0-0.1.
Approx dimensions 10.0 cm x 10.0 cm x 8.0 cm
Approximate total dry weight of soil = 992.0g.
The sample consisted of a mixture of sandy soil, stones, organic fibres and plant matter.
No asbestos detected.

Sample No. 3. ASET126424 / 129604 / 3. 20674/1 - TP103 - 0.0-0.1.
Approx dimensions 10.0 cm x 10.0 cm x 7.8 cm
Approximate total dry weight of soil = 938.0g.
The sample consisted of a mixture of clayish sandy soil, stones, organic fibres and plant matter.
No asbestos detected.

Sample No. 4. ASET126424 / 129604 / 4. 20674/1 - TP113 - 0.0-0.1.
Approx dimensions 10.0 cm x 10.0 cm x 8.3 cm
Approximate total dry weight of soil = 781.0g.
The sample consisted of a mixture of sandy soil, stones, organic fibres, sandstones and plant matter.
No asbestos detected.

Sample No. 5. ASET126424 / 129604 / 5. 20674/1 - TP130 - 0.0-0.15.
Approx dimensions 10.0 cm x 10.0 cm x 7.9 cm
Approximate total dry weight of soil = 912.0g.
The sample consisted of a mixture of clayish sandy soil, stones, organic fibres and plant matter.
No asbestos detected.

Sample No. 6. ASET126424 / 129604 / 6. 20674/1 - TP141 - 0.0-0.15.
Approx dimensions 10.0 cm x 10.0 cm x 8.2 cm
Approximate total dry weight of soil = 1061.0g.
The sample consisted of a mixture of clayish sandy soil, stones, organic fibres, sandstones and plant matter.
No asbestos detected.

Sample No. 7. ASET126424 / 129604 / 7. 20674/1 - TP142 - 0.0-0.15.
Approx dimensions 10.0 cm x 10.0 cm x 8.5 cm
Approximate total dry weight of soil = 1246.0g.
The sample consisted of a mixture of clayish sandy soil, stones, organic fibres, sandstones and plant matter.
No asbestos detected.

Sample No. 8. ASET126424 / 129604 / 8. 20674/1 - TP143 - 0.0-0.15.
Approx dimensions 10.0 cm x 10.0 cm x 7.9 cm
Approximate total dry weight of soil = 1005.0g.
The sample consisted of a mixture of clayish sandy soil, stones, organic fibres, sandstones and plant matter.
No asbestos detected.

Sample No. 9. ASET126424 / 129604 / 9. 20674/1 - TP148 - 0.0-0.15.
Approx dimensions 10.0 cm x 10.0 cm x 6.9 cm
Approximate total dry weight of soil = 880.0g.
The sample consisted of a mixture of clayish sandy soil, stones, organic fibres, sandstones and plant matter.
No asbestos detected.

Sample No. 10. ASET126424 / 129604 / 10. 20674/1 - TP150 - 0.0-0.1.
Approx dimensions 10.0 cm x 10.0 cm x 8.2 cm
Approximate total dry weight of soil = 1032.0g.
The sample consisted of a mixture of clayish sandy soil, stones, sandstones, organic fibres and plant matter.
No asbestos detected.

Sample No. 11. ASET126424 / 129604 / 11. 20674/1 - TP151 - 0.0-0.3.
Approx dimensions 10.0 cm x 10.0 cm x 7.0 cm
The sample consisted of a mixture of sandy soil, stones, a fragment of fibro plaster cement# (AF), organic fibres, sandstones, synthetic mineral fibres and plant matter.
Chrysotile# (Approximate estimated weight = 0.0004g) asbestos detected.
Approximate total dry weight of soil = 921.0g.
Approximate estimated weight of asbestos in soil in the form of AF = 0.0004g.
Approximate w/w percentage of asbestos in soil in the form of AF = 0.00004%.

Sample No. 12. ASET126424 / 129604 / 12. 20674/1 - TP151 - 0.5-0.8.
Approx dimensions 10.0 cm x 10.0 cm x 6.9 cm
Approximate total dry weight of soil = 835.0g.
The sample consisted of a mixture of sandy soil, stones, sandstones, organic fibres and plant matter.
No asbestos detected.

Sample No. 13. ASET126424 / 129604 / 13. 20674/1 - TP152 - 0.0-0.3.
Approx dimensions 10.0 cm x 10.0 cm x 8.0 cm
The sample consisted of a mixture of clayish sandy soil, stones, a fragment of fibre cement* (ACM), sandstones, organic fibres and plant matter.
Chrysotile* (Approximate estimated weight = 0.02g) asbestos detected.
Approximate total dry weight of soil = 998.0g.
Approximate total weight of ACM = 0.17g.
Approximate estimated weight of asbestos in soil in the form of ACM = 0.02g.
Approximate w/w percentage of asbestos in soil in the form of ACM = 0.002%.

Sample No. 14. ASET126424 / 129604 / 14. 20674/1 - TP152 - 0.5-0.8.
Approx dimensions 10.0 cm x 10.0 cm x 6.7 cm
Approximate total dry weight of soil = 882.0g.
The sample consisted of a mixture of clayish sandy soil, stones, brick like material, sandstones, organic fibres, paint flakes and plant matter.
No asbestos detected.

Sample No. 15. ASET126424 / 129604 / 15. 20674/1 - TP153 - 0.0-0.15.
Approx dimensions 10.0 cm x 10.0 cm x 8.1 cm
Approximate total dry weight of soil = 1058.0g.
The sample consisted of a mixture of clayish sandy soil, stones, sandstones, organic fibres and plant matter.
No asbestos detected.

Sample No. 16. ASET126424 / 129604 / 16. 20674/1 - TP153 - 0.5-0.8.
Approx dimensions 10.0 cm x 10.0 cm x 8.2 cm
Approximate total dry weight of soil = 1110.0g.
The sample consisted of a mixture of clayish sandy soil, stones, sandstones, organic fibres and plant matter.
No asbestos detected.

Sample No. 17. ASET126424 / 129604 / 17. 20674/1 - TP153 - 1.0-1.3.
Approx dimensions 10.0 cm x 10.0 cm x 6.9 cm
Approximate total dry weight of soil = 866.0g.
The sample consisted of a mixture of clayish sandy soil, stones, sandstones, organic fibres and plant matter.
No asbestos detected.

Sample No. 18. ASET126424 / 129604 / 18. 20674/1 - BH154 - 0.0-0.15.
Approx dimensions 10.0 cm x 10.0 cm x 7.3 cm
Approximate total dry weight of soil = 680.0g.
The sample consisted of a mixture of clayish sandy soil, stones, organic fibres, sandstones and plant matter.
No asbestos detected.

Sample No. 19. ASET126424 / 129604 / 19. 20674/1 - TP155 - 0.0-0.15.
Approx dimensions 10.0 cm x 10.0 cm x 6.8 cm
Approximate total dry weight of soil = 816.0g.
The sample consisted of a mixture of clayish sandy soil, stones, sandstones, organic fibres and plant matter.
No asbestos detected.

Reported by,

Mahen De Silva. BSc, MSc, Grad Dip (Occ Hyg)
Occupational Hygienist / Approved Identifier.
Approved Signatory

Accredited for compliance with ISO/IEC 17025 - Testing.

This report is consistent with the analytical procedures and reporting recommendations in the Western Australia Guidelines for the Assessment Remediation and Management of Asbestos contaminated sites in Western Australia and it also satisfies the requirements of the current NEPM Guidelines. NATA Accreditation does not cover the performance of this service.

Disclaimers;

The approx; weights given above can be used only as a guide. They do not represent absolute weights of each kind of asbestos, as it is impossible to extract all loose fibres from soil and other asbestos containing building material samples using this method. However above figures may be used as closest approximations to the exact values in each case. Estimation and/ or reporting of asbestos fibre weights in asbestos containing materials and soil is out of the Scope of the NATA Accreditation. NATA Accreditation only covers the qualitative part of the results reported. This weight disclaimer also covers weight / weight percentages if given.

ACM - Asbestos Containing Material - Products or materials that contain asbestos in an inert bound matrix such as cement or resin. Here taken to be sound material, even as fragments and not fitting through a 7mm X 7 mm sieve.

AF -Includes asbestos free fibres, small fibre bundles and also ACM fragments that pass through a 7mm X 7 mm sieve.

FA -Friable asbestos material such as severely weathered ACM, and asbestos in the form of loose fibrous material such as insulation products.

^ denotes loose fibres of relevant asbestos types detected in soil/dust.
*** denotes asbestos detected in ACM in bonded form.**
 # denotes friable asbestos as soft fibro plaster, fragments of ACM smaller than 7mm which are considered as friable and / or highly weathered ACM that will easily crumble.
λ denotes samples that have been analysed only in accordance to AS 4964 – 2004.
Ω Sample volume criteria of 500mL have not been satisfied.

The results contained in this report relate only to the sample/s submitted for testing. Australian Safer Environment & Technology accepts no responsibility for whether or not the submitted sample/s is/are representative. Results indicating "No asbestos detected" indicates a reporting limit specified in AS4964 -2004 which is 0.1g/ Kg (0.01%). Any amounts detected at assumed lower level than that would be reported, however those assumed lower levels may be treated as "No asbestos detected" as specified and recommended by A4964-2004. Trace / respirable level asbestos will be reported only when detected and trace analysis have been performed on each sample as required by AS4964-2004. When loose asbestos fibres/ fibre bundles are detected and reported that means they are larger handpicked fibres/ fibre bundles, and they do not represent respirable fibres. Dust/soil samples are always subjected to trace analysis except where the amounts involved are extremely minute and trace analysis is not possible to be carried out. When trace analysis is not performed on dust samples it will be indicated in the report that trace analysis has not been carried out due to the volume of the sample being extremely minute.

Estimation of asbestos weights involves the use of following assumptions;
Volume of each kind of Asbestos present in broken edges have been visually estimated and its been assumed that volumes remain similar throughout the binding matrix and those volumes are only approximate and not exact. Material densities have been assumed to be similar to commonly found similar materials and may not be exact.

All samples indicating "No asbestos detected" are assumed to be less than 0.001% for friable AF and FA portions detected and 0.01 % for ACM detected unless the approximate weight is given.

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET126424 / 129604 / 20 – 30 out of 30
Your ref : 20674/1 - Redmond Place Orange
NATA Accreditation No: 14484

30 April 2025

Geotechnique Pty Ltd
1 Lemko Place
Penrith NSW 2751

Accredited for compliance with ISO/IEC 17025 - Testing.

Attn: Mr Anwar Barbhuyia

Dear Anwar

Asbestos Identification
This report presents the results of eleven samples out of thirty samples, forwarded by Geotechnique Pty Ltd on 28 April 2025, for analysis for asbestos.

1.Introduction: Eleven samples out of thirty samples forwarded were examined and analysed for the presence of asbestos on 28 April 2025 and 30 April 2025.

2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method **(Australian Standard AS 4964 - 2004 and Safer Environment Method 1 as the supplementary work instruction) (Qualitative Analysis only).**

The report also provides approximate weights and percentages, categories of asbestos forms appearing in the sample, such as **AF**(Asbestos Fines), **FA**(Friable Asbestos) and **ACM** (Asbestos Containing Material), also satisfying the requirements of the NEPM Guidelines).

3. Results : **Sample No. 20. ASET126424 / 129604 / 20. 20674/1 - TP155 - 0.2-0.5.**
Approx dimensions 10.0 cm x 10.0 cm x 11.9 cm
Approximate total dry weight of soil = 1189.0g.
The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, sandstone, wood chips and plant matter.
No asbestos detected.

Sample No. 21. ASET126424 / 129604 / 21. 20674/1 - TP157 - 0.0-0.15.
Approx dimensions 10.0 cm x 10.0 cm x 8.0 cm
The sample consisted of a mixture of clayish sandy soil, stones, fragments of cement, fibre cement* (ACM) and plant matter.
Chrysotile* (Approximate estimated weight = 0.29g) asbestos detected.
Approximate total dry weight of ACM = 2.26g.
Approximate total dry weight of soil = 804.0g.
Approximate estimated weight of asbestos in soil in the form of ACM = 0.29g.
Approximate w/w percentage of asbestos in soil in the form of ACM = 0.036%.

Sample No. 22. ASET126424 / 129604 / 22. 20674/1 - TP162 - 0.0-0.15.
Approx dimensions 10.0 cm x 10.0 cm x 8.6 cm
Approximate total dry weight of soil = 859.0g.
The sample consisted of a mixture of clayish sandy soil, organic fibres, stones and plant matter.
No asbestos detected.

Sample No. 23. ASET126424 / 129604 / 23. 20674/1 - TP165 - 0.0-0.1.
Approx dimensions 10.0 cm x 10.0 cm x 8.3 cm
Approximate total dry weight of soil = 833.0g.
The sample consisted of a mixture of clayish sandy soil, stones, sandstone and plant matter.
No asbestos detected.

λ Sample No. 24. ASET126424 / 129604 / 24. 20674/1 - FCP150 - Surface.
Approx dimensions 3.0 cm x 2.4 cm x 0.4 cm
The sample consisted of a fragment of a fibre cement material.
Chrysotile asbestos detected.
Approximate total dry weight of fibre cement = 7.0g.

λ Sample No. 25. ASET126424 / 129604 / 25. 20674/1 - FCP151 - 0.0-0.3.
Approx dimensions 4.5 cm x 3.5 cm x 0.4 cm
The sample consisted of a fragment of a fibre cement material.
Chrysotile asbestos detected.
Approximate total dry weight of fibre cement = 15.0g.

λ Sample No. 26. ASET126424 / 129604 / 26. 20674/1 - FCP152 - 0.0-0.3.
Approx dimensions 1.6 cm x 1.5 cm x 0.4 cm
The sample consisted of a fragment of a fibre cement material.
Chrysotile asbestos and Amosite asbestos detected.
Approximate total dry weight of fibre cement = 5.0g.

λ Sample No. 27. ASET126424 / 129604 / 27. 20674/1 - FCP152 - 0.5-0.8.
Approx dimensions 6.6 cm x 5.3 cm x 0.4 cm
The sample consisted of a fragment of a fibre cement material.
Chrysotile asbestos, Amosite asbestos and Crocidolite asbestos detected.
Approximate total dry weight of fibre cement = 27.0g.

λ Sample No. 28. ASET126424 / 129604 / 28. 20674/1 - FCP157 - 0.0-0.15.
Approx dimensions 5.6 cm x 3.7 cm x 0.4 cm
The sample consisted of a fragment of a fibre cement material.
Chrysotile asbestos detected.
Approximate total dry weight of fibre cement = 15.0g.

λ Sample No. 29. ASET126424 / 129604 / 29. 20674/1 - FCPL1UR - 0.0-0.1.
Approx dimensions 8.1 cm x 6.7 cm x 1.1 cm
The sample consisted of a fragment of a natural rock material.
No asbestos detected.

λ Sample No. 30. ASET126424 / 129604 / 30. 20674/1 - FCPL6UR - 0.0-0.1.
Approx dimensions 9.0 cm x 6.0 cm x 1.9 cm
The sample consisted of fragments of a natural rock material.
No asbestos detected.

Reported by,

Mahen De Silva. BSc, MSc, Grad Dip (Occ Hyg)
Occupational Hygienist / Approved Identifier.
Approved Signatory

Accredited for compliance with ISO/IEC 17025 - Testing.

This report is consistent with the analytical procedures and reporting recommendations in the Western Australia Guidelines for the Assessment Remediation and Management of Asbestos contaminated sites in Western Australia and it also satisfies the requirements of the current NEPM Guidelines. NATA Accreditation does not cover the performance of this service.

Disclaimers;

The approx; weights given above can be used only as a guide. They do not represent absolute weights of each kind of asbestos, as it is impossible to extract all loose fibres from soil and other asbestos containing building material samples using this method. However above figures may be used as closest approximations to the exact values in each case. Estimation and/ or reporting of asbestos fibre weights in asbestos containing materials and soil is out of the Scope of the NATA Accreditation. NATA Accreditation only covers the qualitative part of the results reported. This weight disclaimer also covers weight / weight percentages if given.

ACM - Asbestos Containing Material - Products or materials that contain asbestos in an inert bound matrix such as cement or resin. Here taken to be sound material, even as fragments and not fitting through a 7mm X 7 mm sieve.

AF -Includes asbestos free fibres, small fibre bundles and also ACM fragments that pass through a 7mm X 7 mm sieve.

FA -Friable asbestos material such as severely weathered ACM, and asbestos in the form of loose fibrous material such as insulation products.

^ denotes loose fibres of relevant asbestos types detected in soil/dust.
*** denotes asbestos detected in ACM in bonded form.**

 # denotes friable asbestos as soft fibro plaster, fragments of ACM smaller than 7mm which are considered as friable and / or highly weathered ACM that will easily crumble.
λ denotes samples that have been analysed only in accordance to AS 4964 – 2004.
Ω Sample volume criteria of 500mL have not been satisfied.

The results contained in this report relate only to the sample/s submitted for testing. Australian Safer Environment & Technology accepts no responsibility for whether or not the submitted sample/s is/are representative. Results indicating "No asbestos detected" indicates a reporting limit specified in AS4964 -2004 which is 0.1g/ Kg (0.01%). Any amounts detected at assumed lower level than that would be reported, however those assumed lower levels may be treated as "No asbestos detected" as specified and recommended by A4964-2004. Trace / respirable level asbestos will be reported only when detected and trace analysis have been performed on each sample as required by AS4964-2004. When loose asbestos fibres/ fibre bundles are detected and reported that means they are larger handpicked fibres/ fibre bundles, and they do not represent respirable fibres. Dust/soil samples are always subjected to trace analysis except where the amounts involved are extremely minute and trace analysis is not possible to be carried out. When trace analysis is not performed on dust samples it will be indicated in the report that trace analysis has not been carried out due to the volume of the sample being extremely minute.

Estimation of asbestos weights involves the use of following assumptions;
Volume of each kind of Asbestos present in broken edges have been visually estimated and its been assumed that volumes remain similar throughout the binding matrix and those volumes are only approximate and not exact. Material densities have been assumed to be similar to commonly found similar materials and may not be exact.

All samples indicating "No asbestos detected" are assumed to be less than 0.001% for friable AF and FA portions detected and 0.01 % for ACM detected unless the approximate weight is given.

APPENDIX E

ENVIRONMENTAL NOTES

IMPORTANT INFORMATION REGARDING YOUR ENVIRONMENTAL SITE ASSESSMENT

These notes have been prepared by Geotechnique Pty Ltd, using guidelines prepared by the ASFE (Associated Soil and Foundation Engineers). The notes are offered to assist in the interpretation of your environmental site assessment report.

REASONS FOR AN ENVIRONMENTAL ASSESSMENT

Environmental site assessments are typically, though not exclusively, performed in the following circumstances:

- As a pre-acquisition assessment on behalf of either a purchaser or a vendor, when a property is to be sold
- As a pre-development assessment, when a property or area of land is to be redeveloped, or the land use has changed e.g. from a factory to a residential subdivision
- As a pre-development assessment of greenfield sites, to establish baseline conditions and assess environmental, geological and hydrological constraints to the development of e.g. a landfill
- As an audit of the environmental effects of previous and present site usage

Each circumstance requires a specific approach to the assessment of soil and groundwater contamination. In all cases the objective is to identify and if possible quantify the risks that unrecognised contamination poses to the ongoing proposed activity. Such risks may be both financial (clean-up costs or limitations in site use) and physical (health risks to site users or the public).

ENVIRONMENTAL SITE ASSESSMENT LIMITATIONS

Although information provided by an environmental site assessment can reduce exposure to the risk of the presence of contamination, no environmental site assessment can eliminate the risk. Even a rigorous professional assessment may not detect all contamination within a site. Contaminants may be present in areas that were not surveyed or sampled, or may migrate to areas which did not show signs of contamination when sampled. Contaminant analysis cannot possibly cover every type of contaminant that may occur; only the most likely contaminants are screened.

AN ENVIRONMENTAL SITE ASSESSMENT REPORT IS BASED ON A UNIQUE SET OF PROJECT SPECIFIC FACTORS

In the following events and in order to avoid cost problems, you should ask your consultant to assess any changes in the conclusion and recommendations made in the assessment:

- When the nature of the proposed development is changed e.g. if a residential development is proposed, rather than a commercial development
- When the size or configuration of the proposed development is altered e.g. if a basement is added
- When the location or orientation of the proposed structure is modified
- When there is a change of land ownership, or
- For application to an adjacent site

ENVIRONMENTAL SITE ASSESSMENT FINDINGS ARE PROFESSIONAL ESTIMATES

Site assessment identifies actual sub-surface conditions only at those points where samples are taken, when they are taken. Data obtained from the sampling and subsequent laboratory analyses are interpreted by geologists, engineers or scientists and opinions are drawn about the overall sub-surface conditions, the nature and extent of contamination, the likely impact on any proposed development and appropriate remediation measures. Actual conditions may differ from those inferred, because no professional, no matter how qualified and no sub-surface exploration program, no matter how comprehensive, can reveal what is hidden by earth, rock and time. The actual interface between materials may be far more gradual or abrupt than an assessment indicates. Actual conditions in areas not sampled may differ from predictions. Nothing can be done to prevent the unanticipated, however, steps can be taken to help minimise the impact. For this reason site owners should retain the services of their consultants throughout the development stages of the project in order to identify variances, conduct additional tests that may be necessary and to recommend solutions to problems encountered on site.

Soil and groundwater contamination is a field in which legislation and interpretation of legislation by government departments is changing rapidly. Whilst every attempt is made by Geotechnique Pty Ltd to be familiar with current policy, our interpretation of the investigation findings should not be taken to be that of the relevant authority. When approval from a statutory authority is required for a project, approval should be directly sought.

STABILITY OF SUB-SURFACE CONDITIONS

Sub-surface conditions can change by natural processes and site activities. As an environmental site assessment is based on conditions existing at the time of the investigation, project decisions should not be based on environmental site assessment data that may have been affected by time. The consultant should be requested to advise if additional tests are required.

ENVIRONMENTAL SITE ASSESSMENTS ARE PERFORMED FOR SPECIFIC PURPOSES AND CLIENTS

Environmental site assessments are prepared in response to a specific scope of work required to meet the specific needs of specific individuals e.g. an assessment prepared for a consulting civil engineer may not be adequate to a construction contractor or another consulting civil engineer.

An assessment should not be used by other persons for any purpose or by the client for a different purpose. No individual, other than the client, should apply an assessment, even for its intended purpose, without first conferring with the consultant. No person should apply an assessment for any purpose other than that originally contemplated, without first conferring with the consultant.

MISINTERPRETATION OF ENVIRONMENTAL SITE ASSESSMENTS

Costly problems can occur when design professionals develop plans based on misinterpretation of an environmental site assessment. In order to minimise problems, the environmental consultant should be retained to work with appropriate design professionals, to explain relevant findings and to review the adequacy of plans and specifications relative to contamination issues.

LOGS SHOULD NOT BE SEPARATED FROM THE REPORT

Borehole and test pit logs are prepared by environmental scientists, engineers or geologists, based upon interpretation of field conditions and laboratory evaluation of field samples. Logs are normally provided in our reports and these would not be redrawn for inclusion in site remediation or other design drawings, as subtle but significant drafting errors or omissions may occur in the transfer process. Photographic reproduction can eliminate this problem, however, contractors can still misinterpret the logs during bid preparation if separated from the text of the assessment. Should this occur, delays and disputes, or unanticipated costs may result.

To reduce the likelihood of borehole and test pit log misinterpretation, the complete assessment should be available to persons or organisations involved in the project, such as contractors, for their use. Denial of such access and disclaiming responsibility for the accuracy of sub-surface information does not insulate an owner from the attendant liability. It is critical that the site owner provides all available site information to persons and organisations, such as contractors.

READ RESPONSIBILITY CLAUSES CLOSELY

An environmental site assessment is based extensively on judgement and opinion; therefore, it is necessarily less exact than other disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. In order to aid in prevention of this problem, model clauses have been developed for use in written transmittals. These are definitive clauses, designed to indicate consultant responsibility. Their use helps all parties involved recognise individual responsibilities and formulate appropriate action. Some of these definitive clauses are likely to appear in the environmental site assessment and you are encouraged to read them closely. Your consultant will be happy to give full and frank answers to any questions you may have.