Douglas PARTNERS

GROUNDED EXPERTISE

Report on Detailed Site (Contamination) Investigation

Proposed Data Centre

78 Lockwood Road, Erskine Park

Prepared for STACK Infrastructure Australia (78 Lockwood Road) Pty Ltd atf STACK Infrastructure Australia (78 Lockwood Road) Unit Trust

Project 207476.11

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The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, logs and test results have been checked and reviewed for errors, omissions and inaccuracies.

Signature	Date
Author	21 August 2025
Reviewer	21 August 2025

FS604853

Executive Summary

This detailed site (contamination) investigation (DSI) report has been prepared by Doulgas Partners Pty Ltd (DP) for STACK Infrastructure Australia (78 Lockwood Road) Pty Ltd atf STACK Infrastructure Australia (78 Lockwood Road) Unit Trust (STACK) to accompany a State Significant Development Application (SSDA) for a proposed data centre development at 78 Lockwood Road, Erskine Park (herein referred to as the 'site').

This report has been prepared in response to the requirements contained within the Secretary's Environmental Assessment Requirements (SEARs) dated 11 April 2025 issued for the SSDA (SSD-82211208). Specifically, this report has been prepared in response to the SEARs requirement item (No. 17) outlined below.

Item	Description of Requirement	Section Reference
17. Contamination and Remediation	Assess and quantify any soil and groundwater contamination and demonstrate that the site is suitable (or will be suitable, after remediation) for the development.	Report in full addresses requested documentation, namely the DSI. Associated with the work for the DSI, as reported herein, this includes characterisation of the nature and extent of contamination.

The objectives of the DSI were to:

- Assess the suitability of the site for the proposed data centre development and whether further investigation and/or remediation of contamination is required;
- Assess the potential for contamination migration off-site by assessing potential source – pathway – receptor linkages; and
- Provide a preliminary waste classification assessment to assist with project planning and management.

This report is a revision of DP's 2024 DSI report which was prepared for an earlier proposed industrial development by a different developer. This report has been updated to reflect the current proposed data centre development. The updated assessment, as outlined herein, was commissioned by STACK.

Field observations generally recorded a subsurface profile comprising compacted clay fill with variable silt, sand and/or gravel components overlying natural clays. At some test locations a silty clay layer directly above the natural clays was observed which is suspected to possibly be associated with a historical topsoil layer buried during earthworks and/or reworked as part of previous earthworks. Field observations and screening did not indicate a risk of broadscale gross chemical contamination.

Chemical laboratory analysis results generally recorded low concentrations for most potential chemical contaminants of concern. Furthermore, laboratory analysis and field screening for asbestos did not return any positive results.

Based on the results of previous investigations (as summarised in Section 6), in particular DP's 2023 investigations, the following comments and recommendations are provided for the site associated with the proposed data centre development:

- Whilst the source of the placed fill is not documented, as noted in DP (2023a) and consistent with the results of this investigation, the fill observed appears to be primarily comprised of reworked natural materials, possibly from the neighbouring property to the west and/or south, noting that these properties were subject to earthworks during a similar period as the site. Observations and laboratory analysis of this material did not indicate any gross contamination and the low chemical concentration results are also consistent with a potential natural source;
- Given the low chemical results in the samples analysed from the fill and the natural soils, coupled with the depth to groundwater previously recorded at the site being below 4 m, there is not considered to be a significant risk to groundwater or surface water receptors from a contamination perspective;
- Fly tipping was evident along the northern site boundary bordering Lenore Drive. Given this, and the limitations of undertaking intrusive works in this area due to the presence of the inground high voltage cables, DP recommends that if any intrusive works are required to be undertaken in this area suitable site management protocols are implemented. In this regard, for instance, as part of site preparation works and prior to commencing civil works in this area, that the respective area is inspected for fly tipping material, and if present, the material is appropriately removed and disposed of. Where appropriate, a suitably qualified environmental consultant is to be engaged if material showing signs of contamination is observed during this process (e.g. asbestos, odours, staining, etc.);
- The fill is preliminary classified as general solid waste (non-putrescible) and the natural soils and bedrock are preliminary classified as virgin excavated natural material. Additional assessment, including inspection, sampling and analysis, will be required as part of a final classification for any surplus materials removed from the site. Moreover, DP recommends consideration be given to assessing the fill under the NSW Environment Protection Authority (EPA) *Excavate Natural Material Order 2014* (ENM Order), prior to (or in conjunction with) assessment of the subject material under the NSW EPA *Waste Classification Guidelines 2014*, i.e. the standard waste classification guidelines; and
- An unexpected finds protocol and asbestos finds protocol will need to be implemented prior to initial earthworks and during construction as part of the overall site management.

Based on the site information and results to date as outlined herein, and subject to implementation of the recommendations outlined above, DP considers that the site at 78 Lockwood Road, Erskine Park is suitable for the proposed data centre development from a contaminated land perspective.

Planning Information

The following has been provided by the project planner, Urbis, and is included herein, at the request of Urbis and STACK Infrastructure Australia (78 Lockwood Road) Pty Ltd atf STACK Infrastructure Australia (78 Lockwood Road) Unit Trust, for reference to the reader.

The site is located in the Penrith Local Government Area and is approximately 40km west of the Sydney Central Business District (CBD), 20km west of the Parramatta CBD, and 10km north-east of the future Western Sydney International Airport.

The site is an irregular shaped 7.7 hectare lot bounded to the north by Lenore Drive and to the east by an E2 Environmental Conservation corridor that follows Ropes Creek. The site relies upon access from a cul-de-sac at the eastern end of Lockwood Road at the site's southern boundary. An aerial photograph is provided below.



Source: Urbis GIS, 2025

The project comprises the construction of a data centre development including the following key components:

- Site preparation and bulk earthworks.

- Construction of a three-storey data centre development, with a maximum height of 26.5 metres and a combined total gross floor area of approximately 55,651 sqm including technical data halls, office and administrative areas, and ancillary circulation space.
- At grade car park undercroft (34 parking spaces) within the building footprint and other onsite parking (44 parking spaces) comprising at total of 78 parking spaces.
- Landscaping and associated public domain works.
- One hundred and seventy (170) generators for backup power.
- Business identification signage zones.
- Extension and augmentation of physical infrastructure and utilities, as required including new on-site substation towards the north of the lot and water storage tanks integrated within the building footprint.

Table of Contents

Page No

1. Introduction 1
2. Scope of Work 2
3. Proposed Development 3
4. Site Information 4
5. Environmental Setting 5
6. Summary of Previous Reports 7
7. Desktop 12
   - 7.1 Historical Aerial Photography 12
   - 7.2 Historic Title Deeds 12
   - 7.3 Public Registers 14
8. Site Walkover 15
9. Preliminary Conceptual Site Model 16
10. Sampling Plan 18
    - 10.1 Data Quality Objectives 18
    - 10.2 Soil Sampling and Analysis Rationale 18
    - 10.3 Sample Analysis Rationale 19
11. Site Assessment Criteria 20
12. Results 20
    - 12.1 Field Work Results 20
    - 12.2 Laboratory Analytical Results 22
13. Discussion 22
    - 13.1 Soils – Site Suitability 22
    - 13.2 Soils – Preliminary Waste Classification 22
    - 13.3 Data Quality Assurance and Quality Control 25
14. Conclusions and Recommendations 25
15. Limitations 26

Appendicies

Appendix A: Drawings

Appendix A1: Investigation Drawings

Appendix A2: Development Drawings

Appendix B: About This Report

Appendix C: Information Extracted from Previous Reports and Information

C1: Selected Drawings Extracted from Previous Reports and Information

C2: Aerial Photographs, Drawings and Logs Extracted from DP (2023a)

C3: Drawing, Logs and Summary Results Table Extracted from DP (2023b)

Appendix D: Historical Title Deeds

Appendix E: Site Photographs

Appendix F: Data Quality Objectives

Appendix G: Fieldwork Methodology

Appendix H: Site Assessment Criteria

Appendix I: Field Sheets

I1: Test Pit Logs

I2: Asbestos Sieving Records

I3: Calibration Sheets

Appendix J: Laboratory Results Summary Tables

Appendix K: Laboratory Certificates

Appendix L: Quality Assurance and Quality Control

Report on Detailed Site (Contamination) Investigation
Proposed Data Centre
78 Lockwood Road, Erskine Park

1. Introduction

This report presents the results of a detailed site (contamination) investigation (DSI) undertaken by Douglas Partners Pty Ltd (DP) for the property at 78 Lockwood Road, Erskine Park (herein referred to as the 'site'). The site boundary is shown on Drawing 1, Appendix A1. This report has been prepared in response to the requirements contained within the Secretary's Environmental Assessment Requirements (SEARs) dated 11 April 2025 and issued for the project (SSD-82211208). In this regard, it addresses the contamination and remediation item (No. 17) in the SEARs, in particular the requirement for a DSI.

This report is a revision of DP's 2024 DSI report which was prepared for an earlier proposed industrial development by a different developer. This report has been updated to reflect the current proposed data centre development. The updated assessment, as outlined herein, was commissioned by STACK Infrastructure Australia (78 Lockwood Road) Pty Ltd atf STACK Infrastructure Australia (78 Lockwood Road) Unit Trust (STACK).

The objectives of the DSI were to:

- Assess the suitability of the site for the proposed data centre development and whether further investigation and/or remediation of contamination is required;
- Assess the potential for contamination migration off-site by assessing potential source – pathway – receptor linkages; and
- Provide a preliminary waste classification assessment to assist with project planning and management.

The following key guidelines were consulted in the preparation of this report:

- National Environment Protection Council (NEPC), *'National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)'*, dated 2013 (NEPC, 2013); and
- NSW Environment Protection Authority (EPA), *'Contaminated Land Guidelines - Consultants Reporting on Contaminated Land'*, dated 2020 (EPA, 2020).

DP understands that this report will be used to assist with project planning. This DSI supplements previous investigations undertaken by DP for others which were undertaken for due diligence and other data centre and warehouse developments. Moreover, a geotechnical investigation[1] was conducted by DP in conjunction with this contamination investigation and has also been reported under a separate cover.

[1] DP, *'Report on Geotechnical Investigation, Proposed Data Centre, 78 Lockwood Road, Erskine Park NSW'*, DP reference: 207476.010.R.001.Rev2 dated 21 August 2025.

This report must be read in conjunction with all appendices including the notes provided in Appendix B.

2. Scope of Work

The scope of work comprised:

- Review of desktop information including:
  - Pertinent previous reports and project information provided to DP by STACK, including those prepared by DP;
  - Topographical, soil, geological and acid sulphate soils (ASS) risk mapping;
  - Registered groundwater bores;
  - Review of NSW EPA online database for the site and adjoining properties with respect to notifications under the *Contaminated Lands Management Act 1997* (CLM Act) and *Protection of the Environment Operations Act 1997* (POEO Act); and
  - Historical title deeds.
- Review of previous reports prepared by DP;
- A walkover to assess current (and where possible recent) features and land use and assess the potential for contaminating activities;
- Development of a preliminary conceptual site model (CSM) outlining potential contamination sources, transport pathways and receptors based on the desktop review;
- Excavation of 54 (TP201 – TP254) test pits to a maximum depth of 3.2 m below ground level (bgl);
- Collection of soil samples at near surface, regular depth intervals, changes in strata and upon signs of contamination;
- Collection of 10 L bulk (fill) soil samples from all test pits at approximately 1 m intervals. One hundred and thirty-five (135) samples were subject to sieving by passing the sample through a 7 mm sieve and identifying potential fragments of asbestos containing material (ACM) greater than 7 mm;
- Screening of soil samples for volatile organic compounds (VOC) using a photoionisation detector (PID);
- Logging of sub-surface conditions at all test locations;
- Collection of five surface samples (SS1 to SS5) from localised potential areas of contamination concern based on field observations. These located in the landscape northern bund area where excavation of test pits was restricted due to inground services;
- Laboratory testing of selected soil samples and quality assurance / quality control (QA / QC) samples at a National Association of Testing Authorities (NATA) accredited laboratories for various combinations of the following common potential contaminants of concern and parameters:
  - Heavy metals;
  - Total recoverable hydrocarbons (TRH);

- Total petroleum hydrocarbons (TPH);
- Monocyclic aromatic hydrocarbons - benzene, toluene, ethyl benzene and xylene (BTEX);
- Polycyclic aromatic hydrocarbons (PAH);
- Polychlorinated biphenyls (PCB);
- Organophosphorus pesticides (OPP);
- Organochlorine pesticides (OCP);
- Per- and poly-fluoralkyl substances (PFAS);
- Electrical conductivity (EC);
- pH;
- Cation exchange capacity (CEC);
- Asbestos; and
- Total characteristic leaching procedure (TCLP).

- Preparation of this DSI report which describes the works undertaken, outlines the field and laboratory results and comments on the potential risk for, and nature of, contamination at the site and the need further investigation and/or remediation with respect to the proposed data centre development (if required). It also includes a preliminary waste classification assessment to assist with project planning and management.

  Note: This report being an updated of DP's 2024 DSI report previously prepared for others to reflect the current proposed data centre development by STACK.

3. Proposed Development

For reference, specific information provided on the development has been included at the start of this report within the Planning Information section (after the Executive Summary). Moreover, selected drawings on the development provided to DP are included in Appendix A2.

Based on the architectural plans provided by STACK, including drawing titled Site Plan, Drawing No. SSDA-DR-A005 dated 8 August 2025, and other provided information, DP understands that the proposed development comprises the construction of two data centre (eastern and western) buildings located centrally within the site. Each data centre building will be three storeys high (Lower Ground, Upper Ground and Level 1) with other discrete levels (Roof Level and Top Level) and office dedicated areas at the northern end of each building. A generator yard to the east and a substation yard (including transformers and switching rooms) to the north of these buildings will also form the main components of the development. Preliminary plans also indicate there will be multiple generators for backup power supply and water storage tanks for industrial water and fire mitigation purposes

The main site entry point will be off Lockwood Road, with site access via internal access roads (pavements) surrounding the data centre buildings. Undercroft and other onsite parking for cars, motorbikes and bicycles will also form part of the development. DP understands that site access via the driveway off Lenore Drive will be retained, primarily for emergency purposes.

General landscaping will surround the aforementioned development features, primarily undertaken towards the site's boundaries.

As indicated on the ACOR Consultants Pty Ltd (ACOR) bulk earthworks plan titled Civil Services Bulk Earthworks Plan, Drawing No. C04-0001 Issue A dated 5 August 2025, proposed earthworks for the existing pad involve minor cut and fill (i.e. typically ± 2 m) to achieve required bulk earthworks levels. The majority of the cut is in the internal access road areas and the northern section of the substation yard, with the majority of fill in the footprints of the data centre buildings, generator yard and southern section of the substation yard.

In summary, from the provided concept design, it is anticipated that earthworks will include:

- The placement of up to 2.0 m of fill within the areas of the data centre buildings to raise existing site levels (currently between Reduced Level (RL) 53.2 m Australian Height Datum (AHD) and RL 55.8 m AHD) to the design finish floor levels (FFLs) of RL 55.9 m and RL 55.2 m AHD;
- The placement of up to 1.4 m of fill within the area of the generator yard (currently between RL 52.8 m AHD and RL 53.4 m AHD) to found a fuel storage area (at FFL 54.1 m AHD);
- Cut and fill across the proposed substation yard with placement of up to 1.5 m of fill and excavation of up to 0.5 m below current site levels; and
- Various retaining walls may also be required, subject to ongoing design, to support changes in design surface levels, between areas within the site as well as across the site's boundary.

It is noted that stripping of existing surficial materials (e.g. topsoil, vegetation, etc.) is expected to be required as part of initial earthworks, whilst the abovementioned ACOR cut / fill plan indicates a net import for the earthworks (i.e. more fill than cut).

4. Site Information

Site Address	78 Lockwood Road, Erskine Park.
Legal Description	Lot 101 in Deposited Plan 1268632.
Approximate Site Area	7.7 ha.
Zoning	Zone IN1 General Industrial.
Local Council Area	Penrith City Council.
Current Use	Vacant awaiting development.
Surrounding Uses	North – Lenore Drive then industrial land use (car park). East – C2 Environmental Conservation Area, Ropes Creek, then paddocks. South – Industrial warehouse development (currently subject to construction works). West – Industrial warehouse development.

The approximate site boundary is shown on Figure 1 below and on Drawing 1, Appendix A1.



Figure 1: Site Location

5. Environmental Setting

Regional Topography	The regional topography falls towards Ropes Creek, with Ropes Creek grading down gradually in a northerly direction. A local high point on the western side of Ropes Creek (the same side as the site) is located about 900 m to the south-west at approximately RL 78 m AHD and falls east and north-east towards Ropes Creek and the site.
Site Topography	The site consists of a generally level building pad with a slight gradual fall from the south-western corner towards the east and north-east where an estate detention basin and artificial wetland is located. The elevation in the south-western corner is approximately RL 56 m AHD whilst the eastern and north-eastern areas of the site are at around RL 50 m AHD. These levels do not include the northern bund which is elevated by up to approximately 4 m above the building pad. The western end of the bund is at approximately RL 59 m AHD, with it gradually grading down towards the east, most notably the eastern third of the bund where it grades to meet pad levels at the bund's eastern end.

Soil Landscape	Reference to the Penrith 1:100 000 Soils Landscape Sheet indicates that the site is underlain by South Creek alluvial soils which are characterised by red and yellow podzolic clays common on terraces with small areas of structured grey clays, leached clay and yellow solodic soils.
Geology	Reference to the Penrith 1:100 000 Geological Series Sheet indicates that the site is underlain by quaternary sediments of Quaternary age. The Quaternary sediments comprise sands, silts and clays that have been deposited in an alluvial environment. The quaternary sediments are underlain by Bringelly Shale of Triassic age. Bringelly Shale typically comprises mainly interbedded layers of siltstone and claystone with alternating fine-grained sandstone and laminate (interbedded sandstone and siltstone) layers. From DP's previous geotechnical investigations the siltstone and claystone layers typically range from 3 m to 15 m thick while the sandstone and laminate layers are typically less than 2 m thick, DP (2022)[2]. The Bringelly Shale typically weathers to form a residual clay profile of medium to high plasticity and reactivity with the soils known to be highly susceptible to erosion and dispersion. It is noted that that the Seamless Geology Mapping suggest the alluvial soils may not extend across the western half of the site. Hence alluvial soils may not be present or be less prevalent in this area based on the mapping.
Acid Sulphate Soils	Reference to the 1:25 000 Acid Sulphate Soils Risk map indicates that the site is within an area of no known occurrence of ASS. ASS is not considered to be an issue of potential concern based on the site elevation and geology and DP's field observations as reported in this and previous reports.
Surface water	Surface water is anticipated to flow east across the site towards the small artificial wetland located adjacent to the eastern boundary of the site and Ropes Creek approximately 120 m to the east of the site.
Groundwater	Groundwater has been observed during previous investigations between 4-7 m bgl, DP (2022). Groundwater flows in the area are anticipated to generally follow the regional topography and flow to the nearest water system which is Ropes Creek located to the east of the site. A search of the NSW Department of Primary Industries Water map of registered groundwater bores was conducted as part of this assessment. The search did not identify any wells within 1 km of the site.

[2] DP, *'Report on Geotechnical Investigation, Lockwood Road Data Centre, 68-124 Lockwood Road, Erskine Park'*, DP reference: 207476.00.R.001.Rev0 dated 18 March 2022 (DP, 2022).

6. Summary of Previous Reports

Ownership of the site has changed several times prior to STACK's recent acquisition of the site for the proposed data centre development. The data from previous geotechnical and contamination investigations previously undertaken for others by DP and other consultants has been for this investigation. These reports being:

- Consulting Earth Scientists Pty Ltd (CES), *'Remediation Action Plan, Lots 6 to 8 DP253678, Lot 10 DP253678 and Lot 197 DP 1087837, Fitzpatrick Land Site, Lenore Lane, Erskine Park, NSW'*, CES reference: CES060703-FDC-02-F, Revision 1, dated 19 October 2006 (CES, 2006);
- David Lane Associates Pty Ltd (DLA), *'Validation Report, Lot 130 DP1125690, Lenore Lane, Erskine Park, NSW'*, DLA reference: DL 2116, dated November 2008 (DLA, 2008);
- AECOM Australia Pty Ltd (AECOM), *'Oakdale West Estate, Contamination Appraisal'*, AECOM reference: -, dated 30 March 2017 (AECOM, 2017);
- Geotech Testing Pty Ltd (Geotech), *'Erskine Park Industrial Development, Stage 2 - Lockwood Road, Erskine Park, Final Site Fill Testing Report'*, Geotech reference: 8982/6-AC-RA, dated 13 May 2021 (Geotech, 2021a);
- Geotech, *'Erskine Park Industrial Estate, Lockwood Road, Erskine Park'*, Geotech reference: 9285/1-AA dated 19 May 2021 (Geotech, 2021b);
- DP, *'Report on Geotechnical Investigation, Lockwood Road Data Centre, 68-124 Lockwood Road, Erskine Park'*, DP reference: 207476.00R.001.Rev0 dated 18 March 2022 (DP, 2022);
- JK Environments Pty Ltd (JKE), *'Environmental Site Inspection, Due Diligence, Lot 101/DP128632, 78 Lockwood Road, Erskine Park, NSW'*, JKE reference: E35842PLlet, dated 4 April 2023 (JKE, 2023);
- DP, *'Report on Targeted Environmental (Contamination) Assessment, Lockwood Road Data Centre, 78 Lockwood Road, Erskine Park'*, DP reference: 207476.01.R.001.Rev1, dated 19 May 2023 (DP, 2023a); and
- DP, *'Report on Pre-Purchase Due Diligence Contamination Assessment, 78 Lockwood Road, Erskine Park'*, DP reference 207476.04.R.001.Rev0, 11 December 2023 207476.04.R.001.Rev0 (DP, 2023b).

The following provides a summary of the findings for the above reports relevant to this DSI. For further and more detailed information, reference should be made to the relevant report.

It is noted that a number of the above listed reports, in particular those reported prior to 2019, encompass larger areas with the site only forming a small sub-section of the area subject to the relevant report, or the report being with respect to nearby site and not encompassing the site at all. Hence, some of the information provided in the reports is not considered relevant and has therefore not been reviewed for the purpose of this assessment.

Based on a review of recent aerials (2018-2023) and review of provided reports undertaken by others outlined above, DP provides the following comments:

- Anecdotal information indicated that the site was filled with natural soils sourced from (in whole or part) the adjacent site to the west, although no reports or inspection records confirming the source of the placed material have been provided for DP's review. It is noted that the 'For Construction' FDC / Enspire *Bulk Earthworks Cut and Fill Plan* (Drawing Number: 190050-03-CC-C04.01, Revision 7 dated 11 November 2020) reviewed by DP suggests the adjacent site was potentially the source and the 2020 and 2021 aerial photographs (see later comments) show both properties subject to earthworks concurrently, supporting the indication by others that the fill was sourced from the adjacent property. The provided cut and fill plan is included in Appendix C1 for reference;
- The site formed a sub-section of a larger property that included nearby properties to the north, south and west;
- The CES remediation action plan, CES (2006), indicated the presence of two structures within the site's footprint and these were considered a potential contamination risk primarily associated with asbestos. It is noted that the report did not state that ACM had previously been identified at these areas of potential environmental concern. The locations of Structures 7 and 8 are shown on CES Figure 2 which has been extracted from CES (2006) and included in Attachment C1 for reference;
- There is reference in AECOM (2017) that AECOM completed a Phase 1 Contamination Assessment in 2007 and a Targeted Phase 2 Contamination Assessment on the West Oakdale Estate in 2012 for others (the property forming a small section of the larger area subject to assessment). Whilst DP has not been provided these reports, the letter indicates that:
    - The Phase 1 contamination assessment identified a low potential for the presence of soil contamination across the majority of the assessed area;
    - The Phase 2 contamination assessment investigated six areas of potential environmental concern. It concluded that the assessment area could be made suitable for residential land use, however, soil remediation would be required (i.e. removal of metal, dumped waste and ACM);
    - Oakdale West Estate is suitable for a commercial / industrial land use; and
    - An unexpected finds protocol is to be developed and implemented as part of the Estate's construction environmental management plan.
- Remediation works were undertaken in 2008 on a nearby property to the north-west / west where Lenore Drive and Compass Drive now intersect, as reported in DLA (2008). The property was identified to contain heavy machinery, miscellaneous debris (steel, timber, concrete, bricks, corrugated iron, steel, old cars, steel drums etc.), old building / shed structures, storage fibrous cement sheets (visually identified as ACM). ACM and some hydrocarbon impacts (associated with storage tanks) were reported to be present with groundwater indicated to be migrating in a south-westerly direction (i.e. away from the site subject to this report); and

- Geotech (2021a) and Geotech (2021b) letters indicate Geotech undertook Level 1 earthworks testing and supervision on the site for the placed fill. In addition:
  - The letters note as part of preparation works areas were observed to be free of significant fill, vegetation and highly organic topsoil. Detailed inspection records of the stripped surface were not included in their report;
  - The material placed generally comprised medium to high plasticity gravelly clay, sandy clay and silty clay;
  - No information on the source of the material was provided; and
  - Reference to the FDC / Enspire cut and fill plan (as referenced above) is made which suggests that the source material placed was potentially (in whole or part) from the adjacent property to the west (see previous comments above).

DP (2022)

DP undertook a geotechnical investigation on the site for a proposed data centre development as reported in DP (2022). The investigation generally found:

- Fill was in the order of 0.8-3 m deep across the site with natural silty clays underlying the fill whilst siltstone / laminite bedrock was encountered at depths between 3-9.1 m;
- A potential former topsoil layer at test pit 39 was encountered below the placed compacted fill;
- Groundwater was recorded in the three installed wells at 4.5-5.3 m (RL 48.4-49.3 m AHD) with groundwater observations in boreholes during drilling between 5-7 m =; and
- It is noted that assessment of the bund adjacent to the northern boundary was outside the purview of the investigation.

JKE (2003)

JKE undertook an inspection of the surface covering at the site in February 2023, as reported in JKE (2023). The report noted the following:

- The top of the bund along the northern site boundary was constructed of clayey fill material with inclusions of ironstone and igneous gravels as well as building debris, including ceramic tile fragments and brick fragments;
- The remainder of the site was identified to be generally level with exposed fill visible at the surface comprising clay and gravel whilst inclusions of ceramic, tile, glass, timber, metal fragments and geofabric were observed on the surface;
- Two fragments of ACM were identified on the surface in the central / south-western portion of the site (refer to JKE Figure 2, extracted from JKE (2023) and included in Appendix C1 for reference); and
- There were no obvious indicators of fly-tipped materials such as waste or stockpiles observed.

DP (2023a)

DP undertook a targeted contamination assessment which focused on the potential presence of ACM on the surface and in the fill at the site. The investigation, as reported in DP (2023a), noted the following:

- The site (or adjacent properties) was not listed as a contaminated notified site on the NSW EPA online database;
- DP's understanding at the time of writing the report was that JKE's personnel removed all identified ACM from the site, however, this was not included in their formal documentation, JKE (2023), and records had not been seen by DP;
- A walkover of the site was undertaken by DP with five fragments of potential ACM collected for laboratory analysis. None of these fragments recorded the presence of asbestos when subjected to laboratory analysis;
- Thirty-seven (37) test pits were excavated and sampled (refer to extracted drawings from DP (2023a) included in Appendix C2). Test pits targeted areas in JKE's report, i.e. JKE (2023), that indicated the presence of building rubble and where deeper fill had been placed during earthworks. It was noted that NSW EPA recommends a minimum of 90 sample locations on a grid pattern (and possibly more than this for asbestos contamination), hence the sampling was limited and targeted;
- Field observations recorded the following:
    - Silty clay fill in all test pits, generally ranging between 0.8 and (at least) 2.1 m depth consistent with the previous DP geotechnical investigation (DP, 2022). Three test pits (locations 13, 14 and 15) terminated in fill at or around 2.1 m;
    - A possible old topsoil layer was observed in test pit 2 (1.5-1.6 m) and test pit 32 (2.1-2.2 m) at the base of the placed fill;
    - Concrete fragments were observed in the fill at test pit 34 (0.2-1.2 m); and
    - A 10L bulk sample was collected from each test pit and sieved in the field for the presence of potential ACM. No ACM was reported to be observed in these samples.
- Laboratory analysis was undertaken on 55 soil samples (31 asbestos fines / friable asbestos (AF / FA) samples and 24 asbestos ID samples) and six fragments of potential ACM. None of the soil or material samples subject to laboratory analysis recorded the presence of asbestos;
- It is noted that chemical analysis of samples and assessment of the bund along the northern boundary were outside the purview of the assessment;
- DP concluded that:
    - The location of the ACM found by JKE, and report in JKE (2023), appeared to be localised to two surficial areas on the western side of the site. These ACM fragments appeared to have been placed during or following the bulk earthworks carried out in 2020; and
    - DP did not observe ACM at the surface of the site or within the tested fill. It also noted that the absence of asbestos in samples did not guarantee that there is no ACM present in other areas or materials on the site.

DP (2023b)

DP undertook a pre-purchase due diligence contamination assessment which comprised a desktop review and limited soil check sampling and reported on the potential for contamination and the suitability of a proposed warehouse development from a contaminated land perspective. The investigation noted the following:

- A cursory review of aerial photographs in the last five years indicates that the site was a paddock in 2018, possibly used for grazing, with various earthworks being undertaken on the site between 2019-2021 (main earthworks in 2020 and first half of 2021) to raise and level the site to its current form;
- Whilst the source of the placed fill is not known, the material observed does appear to primarily comprise reworked natural materials consistent with it possibly being sourced from the adjacent property to the west (and possibly the south);
- Observations of fill in previous reports reviewed (as also indicated above) did not indicate gross contamination;
- Fill varied in depth across test pit locations to depths between 0.9 m and 3 m (extent of excavator reach) generally comprising of silty clays and silty sandy clays with inclusions of igneous and ironstone gravel;
- A thin silty sand layer was observed in several test location above the natural soils. It was suspected that this material was attributable to a historical topsoil layer;
- Trace anthropogenic inclusions were identified in fill to depths of 1.0 m bgl including plastic, timber, wire and PVC fragments;
- Orange-brown and red-brown alluvial clays were observed in most test pit locations;
- No gross chemical contamination (e.g. odours, staining) or ACM was observed in the test pits;
- The contaminant concentrations recorded by the laboratory analysis were generally low, with all results below the adopted investigation and screening levels for a commercial / industrial land use;
- Given the previous observations of ACM on the surface by JKE, JKE (2023), previous structures being located on the site that potentially contained ACM, and that sections of former topsoil layer may still be present, DP considered it prudent to allow some contingency in project planning and budgeting to address any asbestos finds in future works;
- An unexpected finds protocol and asbestos finds protocol will need to be implemented during construction as part of the management procedures for the works; and
- Due to the potential risks associated with classification of soils for disposal and the undocumented nature and volume of the placed fill DP considered it more likely than not that further assessment will be required from both a waste classification perspective (if required) and land contamination perspective to support development application (i.e. this DSI report).

7. Desktop

7.1 Historical Aerial Photography

Historical aerial photographs were reviewed as part of DP's targeted contamination assessment, DP (2023a). The following are key notes from the review pertinent to this assessment associated with the site:

- 1961 – The site appeared mostly cleared of bushland with scattered trees. The land appeared to be used for agricultural purposes featuring two small structures in the centre of the site;
- 1975 – The two small structures in the 1961 aerials appear to have been removed from the site;
- 1986 – Two more possible structures appear to have been constructed in the central portion of the site and there is a notable increase in the number of trees present across the site;
- 2020 – The site was undergoing land clearing and earthworks to form the current pad levels. Previous structures have been removed; and
- 2023 – The site appeared be consistent with its current site layout. The artificial wetland with vegetation is visible adjacent to the eastern site boundary. The stormwater channel is present along the southern boundary of site, whilst the adjacent site to the west has also been subject to earthworks, forming a level pad.

The aerial photographs have been extracted from DP (2023a) and are included in Appendix C2 for reference.

7.2 Historic Title Deeds

A historical title deeds search for the site was undertaken in August 2024 to obtain ownership and occupancy information including company names and the occupations of individuals. The title information can assist in the identification of previous land uses by the company names or the site owners and can, therefore, assist in establishing whether there were potentially contaminating activities occurring at the site. The results of the title deed search are provided in Appendix D. A summary of the title deeds and possible land (also informed by information in previous reports and aerial photographs) is presented in Tables 1 to 5. The areas (No.1-No.4) relevant to each table are shown in the cadastral plan in Appendix D.

It is noted that given when the search was conducted, it does not capture the recent property acquisition information by STACK.

Table 1: Summary of Historical Title Deeds - Area No.1

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
17.09.1898 (1898 to 1945)	William Morphett (Farmer)	Rural / Grazing
15.01.1945 (1945 to 1958)	Frederick John Morphett (Railway Employee)	Rural / Grazing
06.02.1958 (1958 to 1959)	Gladys Ruby Morphett (Widow)	Rural / Grazing

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
24.12.1959 (1959 to 1979)	Ray Fitzpatrick Pty Limited	Rural / Grazing
24.10.1979 (1979 to 2021)	Fitzpatrick Investments Pty Limited	Rural / Grazing / Vacant Land

Table 2: Summary of Historical Title Deeds - Area No.2

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
	This parcel of land previously formed part of Lenore Lane, which was provided for in a subdivision pre-1900	Rural / Grazing
19.03.2009 (2009 to 2021)	Fitzpatrick Investments Pty Limited	Rural / Grazing / Vacant Land

Table 3: Summary of Historical Title Deeds - Area No.3

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
20.01.1920 (1920 to 1945)	Oswald Ernest Morphett (Labourer or Farmer)	Rural / Grazing
01.08.1945 (1945 to 1959)	Norris Frederick Morphett (Railway Employee)	Rural / Grazing
24.12.1959 (1959 to 1979)	Ray Fitzpatrick Pty Limited	Rural / Grazing
24.10.1979 (1979 to 2021)	Fitzpatrick Investments Pty Limited	Rural / Grazing / Vacant Land

Table 4: Summary of Historical Title Deeds - Area No.4

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
17.11.1922 (1922 to 1945)	Johanna Watkins (Widow) Martha Abb Elbra (Widow) Alice Maud Nixon (Married Woman now Widow) Robert Beach Watkins (Laborer / Well Sinker) Albert Arthur Watkins (Painter) John Wilkinson (Hairdresser / Railway Employee) Ethel Adelaide Watkins (Nurse) Neta Albina Watkins (Spinster now Married Woman)	Rural / Grazing

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
15.09.1945 (1945 to 1945)	Donald Henry Waterhouse (Carrier)	Rural / Grazing
03.11.1945 (1945 to 1953)	Francis James Nicholson (Farmer)	Rural / Grazing
05.12.1953 (1953 to 1958)	William John Douglas Shennan (Sawyer)	Rural / Grazing
07.01.1958 (1958 to 1970)	Jacqueline Fitzpatrick (Spinster now Married Woman) Rae Fitzpatrick (Spinster now Married Woman)	Rural / Grazing
01.06.1970 (1970 to 1979)	Ray Fitzpatrick Pty Limited	Rural / Grazing
24.10.1979 (1979 to 2021)	Fitzpatrick Investments Pty Limited	Rural / Grazing / Vacant Land

Table 5: Summary of Historical Title Deeds – Whole Property

Date of Acquisition and Term Held	Registered Proprietor(s) & Occupations	Inferred Land Use
25.06.2021 (2021 to 2024)	Digital Erskine Park 4 LLC	Vacant Land / Proposed Industrial Development
02.04.2024	LPAC AU SUBCO Pty Ltd #	Vacant Land / Proposed Industrial Development

Notes: # Current owner is STACK. Recent acquisition information by STACK not captured by search.

7.3 Public Registers

EPA Notices available under Section 58 of the CLM Act. [Database searched 1 July 2024 and 7 July 2025].	There were no records of notices for the site or adjacent properties.
Sites notified to EPA under Section 60 of the CLM Act. [Database searched 1 July 2024 and 7 July 2025].	Neither the site or the adjacent properties were listed as a notified contaminated site.
Licences listed under Section 308 of the POEO Act. [Database searched 1 July 2024 and 7 July 2025].	There were no records issued to the site or adjacent properties.

8. Site Walkover

A walkover of the site was initially undertaken on 9 July 2024 by a DP environmental scientist for this DSI. The site's features appeared to be generally consistent with that described in the DP (2023a), DP (2023b) and JKE (2023) reports. The following information describes features across the site:

- The site was generally level and had been formed with a clay soil matrix with varying quantities of gravels and sands observed at the surface;
- The surface was covered with scattered light vegetation / grasses. Ceramic tile and terracotta fragments were observed randomly on the surface, although appeared to be more prevalent on the eastern portion of the site;
- A small stockpile (approximately 3 m x 7 m x 1.5 m) was observed in the north-western corner of the site. It is suspected that this material is spoil generated through the construction of a retaining wall on the neighbouring property to the west of the site. It is noted that the majority of this stockpile had been removed from the site by the completion of DP's fieldwork in August 2024;
- A bund was located along the northern boundary of site with it battering down to Lenore Drive to the north. The top of the bund was generally 4 m above the levelled building pad, with it gradually grading down towards the east, most notably the eastern third of the bund where it grades to meet the pad levels at the bund's eastern end. The bund was covered in unkept long grass. Evidence of fly tipping was observed along the fence line at the toe of the bund separating the site to Lenore Drive. Additionally on the crest of the bund ceramic tile and terracotta fragments were observed randomly on the surface;
- As part of the walkover and service scanning for the test location setout, two high voltage cables were identified to be present within the north and central sections of the aforementioned bund;
- At the eastern end of the site some rutting of the surface soils, assumed to be associated with surface water runoff, was evident;
- A surface water detention basin / artificial wetland was present on the adjacent lot and abutted the site eastern boundary;
- To the south was an open vegetated drainage channel where stormwater from the outlets at the eastern end of Lockwood Road released water. Further south were properties subject to ongoing earthworks; and
- The property to the west was subject to ongoing construction. As part of this work a large warehouse building had been constructed with a mesh fence constructed along the common property boundary. The adjacent property earthworks level was about 1 m lower than the site. The site's surface soils adjacent to the fence, approximately in a 10-15 m wide strip, appeared to have been disturbed by the construction activities associated with the adjacent property.

A subsequent site walkover was conducted on 6 June 2025 by a DP environmental scientist as part of the update for this DSI. The site conditions were generally consisted with that observed during the 2024 site walkover, as noted above. The following additional observations were made:

- A small stockpile of material comprising concrete and asphalt (approximately dimensions of 2 m x 2 m x 0.5 m) was present in the southern section of the site. This was thought to likely

be associated with the creation of the stormwater system along the southern boundary of the site;

- Small quantities of general litter were spread around the site, more notably along the northern bund (adjacent to Lenore Drive) whilst building materials, particularly wooden spikes and plastic were observed near the western site boundary;
- Vegetation coverage of the surface was more prevalent compared to 2024;
- Some of the previous test pit locations had settled since their completion;
- Along the eastern boundary of the site, in the vicinity of the surface water detention basin / artificial wetland, there is continued evidence of surface water runoff and erosion of soils (e.g. rutting);
- Construction of the adjacent warehouse to the west had been completed; and
- Bulk earthworks on the properties to the south had been completed and construction of two new warehouse buildings was well advanced.

Photographs from DP's 2024 fieldwork and 2025 site walkover are included in Appendix E for reference.

9. Preliminary Conceptual Site Model

A CSM is a representation of site-related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The CSM provides the framework for identifying how the site became contaminated and how potential receptors may be exposed to contamination either in the present or the future, i.e. it enables an assessment of the potential source – pathway – receptor linkages (complete pathways).

Based on the current investigation and previous reports, the following potential sources of contamination and associated contaminants of potential concern (CoPC) have been identified and are summarised in Table 6.

As this investigation is associated with the site's future development, the CSM does not consider risks associated with current site users.

Table 6: Summary of Potential Sources and Associated CoPC

S1: Fill: Associated with generating the current landform and recent construction works associated with the adjacent western property.

- Primary CoPC: metals, TRH, BTEX, PAH, asbestos.
- Secondary CoPC: PFAS, PCB, OCP, OPP, phenols.

S2: Demolition of former buildings / structures on the site.

- Primary CoPC: asbestos.
- Secondary CoPC: synthetic mineral fibres (SMF), lead (in paint) and PCB.

S3: Fly tipping of building materials and miscellaneous items (including previous ACM finds).

- Primary CoPC: asbestos.
- Secondary CoPC: metals, TRH, BTEX, SMF, lead (in paint) and PCB.

Indicative potential areas of environmental concern are also shown on Drawing 2, Appendix A1.

The following potential human and environmental receptors, along with relevant potential pathways, have been identified and summarised in Table 7.

Table 7: Summary of Potential Receptors and Pathways

Potential Human Receptors
HR1: Construction and maintenance workers. **HR2:** End users (industrial). **HR3:** Adjacent site users (agriculture, current and future commercial / industrial).
Potential Environmental Receptors
ER1: Surface water (artificial wetland and Ropes Creek). **ER2:** Groundwater. **ER3:** Terrestrial ecology.
Potential Pathways to Human Receptors
HP1: Ingestion and dermal contact. **HP2:** Inhalation of dust and / or vapours.
Potential Pathways to Environmental Receptors
EP1: Surface water run-off. **EP2:** Leaching of contaminants and vertical migration into groundwater. **EP3:** Lateral migration of groundwater providing base flow to water bodies. **EP4:** Inhalation, ingestion and absorption.

With respect to terrestrial ecology, this is expected to be generally limited to the northern bund and landscaped areas which are primarily located towards the site's boundaries. As the development involves limited new landscaping in other areas with the rest of the site covered by hardstand (i.e. building slabs and pavements), and with use of existing soils from other areas in these landscaped areas anticipated to limited, ecological receptors are considered in a limited scope and context with respect to the CSM.

Summary of Potentially Complete Exposure Pathways

A 'source–pathway–receptor' approach has been used to assess the potential risks of harm being caused to human or environmental receptors from contamination sources on or in the vicinity of the site, via exposure pathways (potential complete pathways). The possible pathways between the above sources (S1 to S3) and receptors are provided in below Table 8

Table 8: Summary of Potentially Complete Exposure Pathways

Source	Transport Pathway	Receptor	Risk Management Action
S1: Fill. S2: Former buildings / structures. S3: Fly tipping.	HP1: Ingestion and dermal contact. HP2: Inhalation of dust and/or vapours.	HR1: Construction and maintenance workers. HR2: End users (industrial).	Previous investigations have not reported significant contamination in soils at the site. An additional intrusive investigation (this investigation) is recommended to improve the sampling density and to assess the potential for significant presence of the COPC in the soils. Results from soil analysis to inform potential risks from soil vapour and groundwater media and the need for further detailed assessment.
	HP2: Inhalation of dust and/or vapours.	HR3: Adjacent site users (agriculture, current and future commercial / industrial).	
	EP1: Surface water run-off. EP2: Leaching of contaminants and vertical migration into groundwater.	ER1: Surface water (artificial wetland, Ropes Creek).	
	EP3: Lateral migration of groundwater providing base flow to water bodies.	ER2: Groundwater.	
	EP4: Inhalation, ingestion and absorption.	ER3: Terrestrial ecosystems.	

10. Sampling Plan

10.1 Data Quality Objectives

The DSI was devised with reference to the seven-step data quality objectives (DQO) process which is provided in Appendix B Schedule B2, NEPC (2013). The data quality objective process is outlined in Appendix F.

10.2 Soil Sampling and Analysis Rationale

Based on the CSM and DQO the following sampling rationale was adopted. Test pit locations are shown on Drawings 3 and 4, Appendix A1.

Table 2 of the NSW EPA *Sampling Design – Part 1 Application 2022* (EPA, 2022) recommends a minimum of 85 sampling points for a site of 7.7 ha for site characterisation with additional locations for point sources. Given the previous test locations at the site, including 35 soil sample locations and four surface (material) samples in DP's targeted asbestos contamination investigation, DP (2023a), and 13 soil sample locations in DP's due diligence investigation, DP (2023b), this DSI comprised of an additional 59 sample locations (54 test pits and five surface

samples) for general site coverage with focus on areas of environmental concern based on the reviewed information and site observations.

The overall general sampling rationale for assessment of the site comprising test locations for DP (2023a), DP (2023b) and this subsequent DSI was as follows:

Test Location	Rationale
Test pits TP201-TP206.	Area of recently disturbed surface materials on the western section of the site associated with the construction works on the adjacent (western) property at the time of the fieldwork (July 2024).
Test pits TP101-TP103, TP207-TP210, TP229-TP232, TP254.	Northern bund.
Surface samples SS1-SS5.	Areas of increased surficial ceramic tile fragments on the crest of the northern bund. Test pitting precluded in this area given the presence of inground high voltage cables.
Test pits TP1-TP35, TP33A, TP104-TP113, TP201-TP206, TP211-TP228, TP233-TP253.	General coverage of the site.
Surface samples H1-H5.	Locations where anthropogenic materials were observed on the surface with sampling to allow collection of material samples for subsequent analysis for asbestos.
Tet pits TP107, TP108.	Locations where ACM fragments observed on the surface by JKE as reported in JKE (2023)
Test pits TP110, TP246, TP250.	Footprint of previous structures.

As noted above, given the presence of the high voltage cables, test pitting through the middle and northern sections of the northern bund was precluded for safety reasons and hence this area of the site was not subject to intrusive investigation.

Soil samples were generally collected from each test pit at near surface and then at regular intervals, changes in lithology or signs of contamination. It should be noted that only soil samples for asbestos analysis were collected from DP's targeted contamination assessment, DP (2023a).

To supplement the field observations, sieve tests of the fill to screen for ACM (>7mm) were undertaken in the field at all test pit locations as part of the current DSI investigation. Sieve tests were also undertaken on selected samples as part of DP (2023a).

The general sampling methods are described in the field work methodology, included in Appendix G.

10.3 Sample Analysis Rationale

Given the desktop information, including information from previous investigations that suggested that the fill may have in part or full been sourced from natural soils on the adjacent property to the west (or other nearby properties to the south) and the results from DP (2023b)

recorded low chemical concentrations from the limited sampling across the site, the analytical approach primarily focused on asbestos as the main CoPC.

Accordingly, the laboratory analysis approach comprised:

- Samples from all DP locations (associated with this and previous investigations) being subject to laboratory analysis for asbestos; and
- Samples from 53 test locations (40 from the current investigation and 13 from DP (2023b)), plus surface sample location SS1, SS4 and SS5, were subject to analysis for chemical CoPC. This comprising a density of approximately 65% of that recommended by EPA (2022). Of this, a greater focus was placed on those primary CoPC, namely metals, TRH, BTEX and PAH.

11. Site Assessment Criteria

The site assessment criteria (SAC) applied for the current investigation are informed by the CSM (Section 9) which identified human and environmental receptors to potential contamination on the site. Analytical results are assessed (as a Tier 1 assessment) against the SAC comprising primarily the investigation and screening levels of Schedule B1 of NEPC (2013).

The investigation and screening levels applied in the current investigation comprise levels adopted for a generic commercial / industrial land use scenario. The derivation of the SAC is included in Appendix H and the adopted SAC are listed on the summary analytical results tables in Appendix J.

The preliminary waste classification was conducted with reference to the NSW EPA *Waste Classification Guidelines, 2014* (NSW EPA, 2014). The waste classification criteria are shown in Table J2, Appendix J.

For the purpose of providing screening criteria to compare laboratory results for assessing virgin excavated natural material (VENM), DP has compared the results of the natural soils to published background concentrations in Australian and New Zealand Environment and Conservation Council (ANZECC) *'Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites, Environmental Soil Quality Guidelines Background A',* 1992 (ANZECC, 1992). In the case of organics, namely TRH, where no reference values exist, the laboratory reporting limit (LRL) has been adopted as the screening level. Similarly for PFAS the LRL has also been adopted as an initial screening level

12. Results

12.1 Field Work Results

The test pit logs for this investigation on the site are included in Appendix I1. Logs from previous investigations DP (2023a) and DP (2023b) also relevant to these findings are included in Appendix C2 and C3 respectively. The logs recorded the following general sub-surface profile:

Fill / Northern Bund - Silty	Present at TP101 to TP103, TP207-TP210, TP229-TP231, SS1 to SS3 and SS5 located within the northern bund between depths from the surface to 3.5 m bgl. This material consisted of low to high plasticity, brown, dark brown and

Clay and Silty Sandy Clay:	dark grey clay and silt components and fine to medium sands. Inclusions of rootlets, roots, timber fragments, wood chips, irrigation hose, plastic, igneous and ironstone gravel was also observed in this material. An increased amount of wood chips and timber fragments were observed at test location TP231 to depths of 2.9 m bgl.
Fill / Clays and Sands:	Present in the majority of locations and encountered to depths of between the surface and 3.0 m bgl. Primarily comprising clays (silty clays, silty sandy clays, sandy clays) with clayey sands and clayey silty sands less prevalent. Low to high plasticity, red-brown, orange-brown, brown, dark brown pale grey and dark grey with most locations featuring varying amounts of fine to medium sand and ironstone gravel. Variable inclusions of rootlets, roots, timber, plastic, ceramic tiles, boundary flag ropes, rubber, slag, concrete, igneous and sandstone gravel and sandstone boulders also observed in this material, generally at trace level.
Fill / Silty Sandy Clay and Silty Clay:	This layer is suspected to be possibly a historical topsoil layer buried during earthworks and / or reworked as part of previous earthworks. Observed at TP107, TP109, TP11-TP113, TP213, TP217, TP223-TP225 and TP227, TP239, TP240, TP244, TP245 and TP247-TP252 comprising pale brown, grey-brown or grey low to medium plasticity clays with increased silt content and some fine to medium sand with to trace inclusions of roots, rootlets, decomposed wood, igneous and ironstone gravel. Encountered at depths from 0.45 m and 3.0 m bgl and typically relatively thin compared to other fill layers.
Alluvial / Clay and Silty Clay:	Encountered at the majority of locations. Generally medium to high plasticity, red-brown, yellow-brown and grey with inclusions of rootlets, decomposed wood and ironstone gravel.
Residual / Clay and Silty Clay:	Most notable in the western portion of the site, TP201-206 and TP215, medium to high plasticity with variable silt content and inclusions of decomposed wood and ironstone gravel. Generally red-brown, orange-brown and pale grey.

With respect to the natural clays encountered in the test pits, these were considered to be predominantly alluvial in nature given their proximity of the site to Ropes Creek to the east with some residual clays encountered near the western site boundary. Given the similarity between the two soils types, a clear delineation between the two soils types could not always be made.

No visual or olfactory evidence (e.g. staining, odours, free phase product) was observed during the current investigations to suggest the presence of gross contamination within the soils. Decomposition odours were noted in the fill in the northern bund (TP209 and TP2010) and at TP216. Moreover, it is noted that that PID results recorded a maximum of 12 ppm suggesting the absence or very low levels of VOC in samples screened.

Perched groundwater was observed during the excavation of TP209 and TP230 within the northern bund at a depth of 1.1 m bgl and 1.7 m bgl respectivly. It is suspected that this groundwater is a result of seepage following wet weather given seepage flows are likely to increase under these conditions. Groundwater was not observed in other test pits, consistent with previous observations (i.e. DP (2022)) where groundwater was observed below 4 m bgl. It

should be noted that groundwater levels are affected by climatic conditions and soil permeability and will therefore vary with time.

12.2 Laboratory Analytical Results

The results of laboratory analysis are summarised in the following tables in Appendix J:

- Table J1: Summary of Soil Chemical Laboratory Analysis Results – Site Suitability;
- Table J2: Summary of Soil Chemical Laboratory Analysis Results – Waste Classification; and
- Table J3: Summary of Soil Asbestos Analysis Results.

The laboratory certificates of analysis together with the chain of custody and sample receipt information are provided in Appendix K.

13. Discussion

13.1 Soils – Site Suitability

The following provides a summary of the results from DP (2023a), DP (2023b) and the current investigation for completeness.

The analytical results for BTEX, phenols, OCP, OPP, PCB and PFAS were below their respective LRL for all samples analysed. There were detections of metals in all samples analysed and TRH and PAH in some samples analysed, however, these detections were below their respective SAC and generally a low concentrations.

TRH was detected at a maximum concentration of 480 mg/kg in sample TP209/2.5-2.7. Silica gel cleanup was conducted on this sample with all concentrations of TPH recorded below the LRL. Given the TPH results, this suggests that the TRH is likely associated with natural sources, consistent with the decomposition odour noted in TP209 below 2.2 m and the low PID results of 1 ppm for this sample.

Asbestos was not identified by the laboratory analysis in any of the samples subjected to analysis. Furthermore, no ACM was observed during field sieving or within test pit excavations. The location of the ACM found by JKE appears localised to two surficial areas (locations FCF1 and FCF2) on the western side of the site. Analysis and field screening from all intrusive investigation on the site suggest that the ACM fragments identified by JKE appear to have been placed either during or following bulk earthworks carried out *circa* 2020. As noted in Section 6, DP's understanding is that JKE personnel removed all identified ACM from the site during their site inspection.

13.2 Soils – Preliminary Waste Classification

13.2.1 Fill Material

Table 9 presents the results of the six step procedure outlined in NSW EPA (2014) for determining the type of waste and the waste classification. This process applies to soils at the site which do not meet the definition of VENM.

Table 9: Six Step Classification Procedure

Step	Comments	Rationale
1. Is the waste special waste?	No	Asbestos was not detected by the analytical laboratory in soil samples. No ACM fragments were observed during the fieldwork at the locations subject to test pitting and sampling.
2. Is the waste liquid waste?	No	The fill comprised a soil matrix.
3. Is the waste "pre-classified"?	No	The fill is not pre-classified with reference to NSW EPA (2014).
4. Does the waste possess hazardous waste characteristics?	No	The fill was not observed to contain or considered at risk to contain explosives, gases, flammable solids, oxidising agents, organic peroxides, toxic substances, corrosive substances, coal tar, batteries, lead paint or dangerous goods containers.
5. Determining a waste classification using chemical assessment	Conducted	Refer to Table J2, Appendix J.
6 Is the waste putrescible or non-putrescible?	Non-putrescible	The fill does not contain materials considered to be putrescible.[a]

Note: a. Wastes that are generally not classified as putrescible include soils, timber, garden trimmings, agricultural, forest and crop materials, and natural fibrous organic and vegetative materials (EPA, 2014).

Based on the analytical results summarised in Table J2, Appendix J, all chemical results were within the CT1 criteria for general solid waste. Concentrations of PFAS were recorded below the LRL, with TCLP PFAS analysis undertaken to complete the waste classification process also returning results below the LRL.

It is noted that DP (2023b) recorded one result above the CT1, that being for benzo(a)pyrene in sample at TP107/1-1.1 at 1 mg/kg (total PAH at 14 mg/kg). This sample was subject to TCLP analysis with all results below the LRL and accordingly below the SCC1 and TCLP1 criteria for general solid waste. This result is presented in the results table extracted from DP (2023b) and included in Appendix C3 for reference.

Given the above noted results, and the asbestos results which did not record the presence of asbestos in the samples subjected to field sieve testing or laboratory analysis as presented in Table J3, Appendix J, the fill (and any natural soils at the site which do not meet the definition of VENM) is preliminarily classified as general solid waste (non-putrescible) with respect to NSW EPA (2014).

Additionally, given the low chemical results, and the potential for the fill to have been sourced from natural soils from adjacent / nearby properties, pH and electrical conductivity analysis was also conducted. This was with a view to inform the potential for the fill to be classified under the NSW EPA *Excavated Natural Material Order 2014* (ENM Order). In this regard, pH and EC results were within the acceptable ranges as outlined in the ENM Order. Whilst noting that more detailed assessment would be required prior to a final classification being able to be determined under the ENM Order, or other NSW EPA Resource Recovery Order (RRO), if material is required to be disposed off-site, DP would recommend consideration be given to assessing this material

under the ENM Order, or other RRO, prior to (or in conjunction with) assessment of the subject material under the NSW EPA (2014), i.e. the standard waste classification guidelines.

It should be noted that soils unable to be used as engineered fill, such as near surface soils with high organic / vegetation matter, are unlikely to be able to be disposed of as ENM.

13.2.2 Natural Materials

Table 10 presents the results of the assessment of natural soils at the site with reference to the VENM definition in the POEO Act and the EPA website.

Table 10: VENM Classification Procedure

Item	Comments	Rationale
1. Is the material natural?	Yes	Natural materials logged as per Section 12.1 and the test pit logs in Appendix I1 (and Appendix C2 and C3). These materials underlie the fill at the site.
2. Is the material impacted by manufactured chemicals or process residues?	No	There were no visual or olfactory indicators of contamination in natural soil at the test locations. Samples subjected to laboratory analysis recorded results below typical background concentrations / screening criteria.
3. Are the materials ASS?	No	See Section 5 for details. ASS not considered to be a risk at the site.
4. Are there current or previous land uses that have (or may have) contaminated the materials?	Yes	See Section 6 for details. Previous land uses, whilst generally considered at the lower end of the risk profile, may have impacted on fill overlying the natural materials. Generally low chemical concentrations as recorded in the fill samples analysed indicate low risk of impact on natural materials.

Note: https://www.epa.nsw.gov.au/your-environment/waste/classifying-waste/virgin-excavated-natural-material

As shown in Table J2, Appendix J, all contaminant concentrations for natural soils were within the typical background concentrations.

Based on these results, the asbestos results as presented in Table J3, Appendix J, and the low results from DP (2023b), the natural soils and bedrock described in the field logs are preliminarily classified as VENM.

This VENM classification, and the waste classification in the preceding subsection, are preliminary in nature. As such, formalisation of the waste classification is required prior to the disposal of any surplus soils from the site. Moreover, the VENM classification (if required) needs to be confirmed following the removal of the overlying fill.

13.3 Data Quality Assurance and Quality Control

The data QA / QC results are included in Appendix L. Based on the results of the field QA and field and laboratory QC, and evaluation against the data quality indicators it is concluded that the field and laboratory test data obtained are reliable and useable for this assessment.

14. Conclusions and Recommendations

Based on the results of previous investigations, in particular DP (2023a) and DP (2023b), and this investigation, the following comments and recommendations are provided for the site associated with the proposed data centre development:

- Whilst the source of the placed fill is not documented, as noted in DP (2023a) and consistent with the results of this investigation, the fill observed appears to be primarily comprised of reworked natural materials, possibly from the neighbouring property to the west and/or south, noting that these properties were subject to earthworks during a similar period as the site. Observations and laboratory analysis of this material did not indicate any gross contamination and the low chemical concentration results are also consistent with a potential natural source;
- Given the low chemical results in the samples analysed from the fill and the natural soils, coupled with the depth to groundwater previously recorded at the site being below 4 m bgl, there is not considered to be a significant risk to groundwater or surface water receptors from a contamination perspective;
- Fly tipping was evident along the northern site boundary bordering Lenore Drive. Given this, and the limitations of undertaking intrusive works in this area due to the presence of the inground high voltage cables, DP recommends that if any intrusive works are required to be undertaken in this area suitable site management protocols are implemented. In this regard, for instance, as part of site preparation works and prior to commencing civil works in this area, that the respective area is inspected for fly tipping material, and if present, the material is appropriately removed and disposed of. Where appropriate, a suitably qualified environmental consultant is to be engaged if material showing signs of contamination is observed during this process (e.g. asbestos, odours, staining, etc.);
- The fill is preliminary classified as general solid waste (non-putrescible) and the natural soils and bedrock are preliminary classified as VENM. Additional assessment, including inspection, sampling and analysis, will be required as part of a final classification for any surplus materials removed from the site. Moreover, DP recommends consideration be given to assessing the fill under the ENM Order, or other RRO, prior to (or in conjunction with) assessment of the subject material under the NSW EPA (2014), i.e. the standard waste classification guidelines. It is noted that soils unable to be used as engineered fill, such as near surface soils with high organic / vegetation matter, are unlikely to be able to be disposed of as ENM; and
- An unexpected finds protocol and asbestos finds protocol will need to be implemented prior to initial earthworks and during construction as part of the overall site management.

Based on the site information and results to date as outlined herein, and subject to implementation of the recommendations outlined above, DP considers that the site at 78 Lockwood Road, Erskine Park is suitable for the proposed data centre development from a contaminated land perspective.

15. Limitations

Douglas Partners Pty Ltd (DP) has prepared this report for this project at 78 Lockwood Road, Erskine Park in general accordance with DP's proposal 207476.10.P.001.Rev0 dated 14 May 2025 and acceptance received from STACK Infrastructure Australia (78 Lockwood Road) Pty Ltd atf the STACK Infrastructure Australia (78 Lockwood Road) Unit Trust (STACK). The work was carried out under DP's Engagement Terms. This report is provided for the exclusive use of STACK and for only for the purposes as described in the report. It should not be used by or relied upon for other projects or purposed on the same or other site or by a third party. Any party relying upon this report beyond its exclusive use and purpose as stated above, and without the express of written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are indicative of the sub-surface conditions on the site only at the specific sampling and/or testing location, and then only to the depths investigated and at the time the works was carried out. Sub-surface conditions can change abruptly due to variable geological processes and also as a result of human influences. Such changes may occur after DP's field testing has been conducted. DP's advice is based upon the conditions encountered during this investigation. The accuracy of advice provided by DP in this report may be affected by undetected variations in ground conditions across the site between and beyond sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

The assessment of atypical safety hazards arising from this advice is restricted to the environmental components set out in this report and based on known project conditions and stated design, advice and assumptions. While some recommendations for safe controls may be provided, detailed safety in design assessment is outside the current scope of this report and requires additional project data and assessment.

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report. This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.

Asbestos has not been detected by observation or by laboratory analysis in fill materials at the test locations sampled and analysed as part of the current works, although fragments of ACM on the surface were reported in JKE (2023). Building demolition materials, such as concrete, plastic, irrigation hose and ceramic were, however, located in fill at the site, and these are considered as indicative of the possible presence of hazardous building materials (HBM), including asbestos. Although the sampling plan adopted for this investigation is considered appropriate to achieve the stated project objectives, there are necessarily parts of the site that have not been sampled and analysed. This is either due to undetected variations in ground conditions, budget constraints, or to parts of the site being inaccessible and not available for inspection / sampling. It is therefore considered possible that HBM, including asbestos, may be present in unobserved or untested parts of the site, between and beyond sampling locations, and hence no warranty can be given that asbestos is not present.

Appendix A

Drawings

Appendix A1

Investigation Drawings





SITE LOCATION

LEGEND

Site Boundary

0 25 50 75 100 m

NOTE:
1. Drawing projection in GDA2020 / MGA zone 56, adapted from aerial imagery from metromap.com.
2. Boundaries are approximate only.

Douglas PARTNERS

CLIENT: STACK Infrastructure Australia		
OFFICE: Sydney	DRAWN BY: NW	
SCALE: 1:2500 @A3	DATE: 15.July.2025	

TITLE: **Site Location Plan**
Proposed Data Centre
78 Lockwood Road, Erskine Park

N

PROJECT:	207476.11
DRAWING No:	1
REVISION:	0





SITE LOCATION

NOTE:
1. Drawing projection in GDA2020 / MGA zone 56, adapted from aerial imagery from metromap.com.
2. Boundaries are approximate only.
3. Use of fill across site from unconfirmed sources also of potential environmental concern.

LEGEND

- Site Boundary
- Potentially Disturbed Soils, 2024
- Northern Bund and General Landscape Area
- Previous Structure
- Previous Structures (CES, 2006)
- Surface ACM Fragment (JKE,2023)

0 25 50 75 100 m

Douglas PARTNERS

CLIENT: STACK Infrastructure Australia		
OFFICE: Sydney	DRAWN BY: NW	
SCALE: 1:2000 @A3	DATE: 30.July.2025	

TITLE: **Areas of Potential Environmental Concern**
Proposed Data Centre
78 Lockwood Road, Erskine Park

N

PROJECT:	207476.11
DRAWING No:	2
REVISION:	0

DP.QGIS.A3LandscapeDrawingLayout.Rev3 - P:\207476.06 - ERSKINE PARK, 78 Lockwood Road, ENV DA\7.0 Drawings\7.2 Out\QGIS 2020\207476.06.qgz





SITE LOCATION

NOTE:
1. Drawing projection in GDA2020 / MGA zone 56, adapted from aerial imagery from metromap.com.
2. Boundaries are approximate only.
3. Does not include test locations from geotechnical investigations.

LEGEND

- Site Boundary
- Potentially Disturbed Soils, 2024
- Northern Bund and General Landscape Area
- Previous Structure
- Previous Structures (CES, 2006)

Previous Test Locations

- Surface ACM Fragment (JKE,2023)
- Test Pit (DP,2023a)
- Test Pit (DP, 2023b)
- Surface Sample (DP,2023a)

0 25 50 75 100 m

Douglas PARTNERS

CLIENT:	STACK Infrastructure Australia	
OFFICE:	Sydney	DRAWN BY: NW
SCALE: 1:2000 @A3		DATE: 30.July.2025

TITLE: **Previous Investigation - Test Locations**
Proposed Data Centre
78 Lockwood Road, Erskine Park

PROJECT:	207476.11
DRAWING No:	3
REVISION:	0

DP.QGIS.A3LandscapeDrawingLayout.Rev3 - P:\207476.06 - ERSKINE PARK, 78 Lockwood Road, ENV DA\7.0 Drawings\7.2 Out\QGIS 2020\207476.06.qgz





SITE LOCATION

NOTE:
1. Drawing projection in GDA2020 / MGA zone 56, adapted from aerial imagery from metromap.com.
2. Boundaries are approximate only.
3. Surface soil sample locations are approximate only.
4. Does not include CPT locations from geotechnical investigation.

LEGEND

- Site Boundary
- Potentially Disturbed Soils, 2024
- Northern Bund and General Lanscape Area
- Previous Structure
- Previous Structures (CES, 2006)

Current Investigation - Test Locations

- Test Pit
- Surface Soil Samples

0 25 50 75 100 m

Douglas PARTNERS

CLIENT:	STACK Infrastructure Australia	TITLE:	**Current Investigation - Test Locations** **Proposed Data Centre** **78 Lockwood Road, Erskine Park**
OFFICE: Sydney	DRAWN BY: NW		
SCALE: 1:2000 @A3	DATE: 30.July.2025		

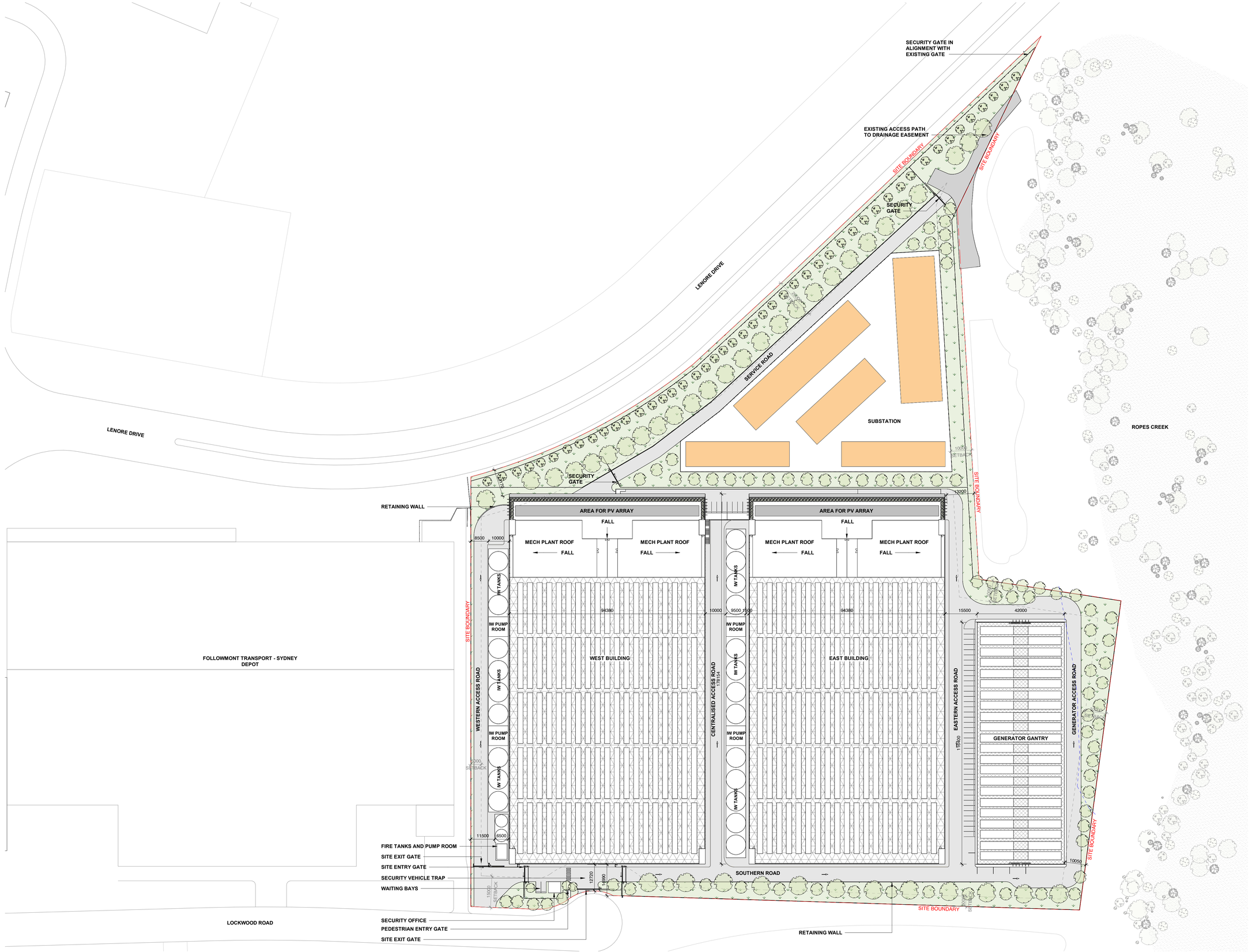
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PROJECT:	207476.11
DRAWING No:	4
REVISION:	0

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Appendix A2

Development Drawings



LEGEND

- FLOOD AFFECTED AREA
- SWITCHROOM
- GREEN AREA
- ROAD
- PROPERTY LINE
- SETBACK
- UNDERGROUND SEWER

SITE METRICS SCHEDULE

OVERALL SITE AREA:	77,241.97 m²
GROSS FLOOR AREA (GFA):	55,651 m²
FLOOR SPACE RATIO (FSR):	0.72:1
SITE COVERAGE AREA:	44,062.38 m²
PERCENTAGE:	57.04%
LANDSCAPED AREA (IN GREEN):	14,882 m²
PERCENTAGE:	19.26%
DEEP SOIL AREA:	14,733 m²
PERCENTAGE:	19.07%
TREE CANOPY COVERAGE:	8,856 m²
PERCENTAGE:	11.46%
PARKING SPACES:	78 TOTAL
BUILT FORM SETBACKS:	
NORTH:	13.1m - 30.3m
SOUTH:	12.7m - 22.2m
EAST:	10.2m - 13.2m
WEST:	8.5m

0 17 34 51 68 85 m

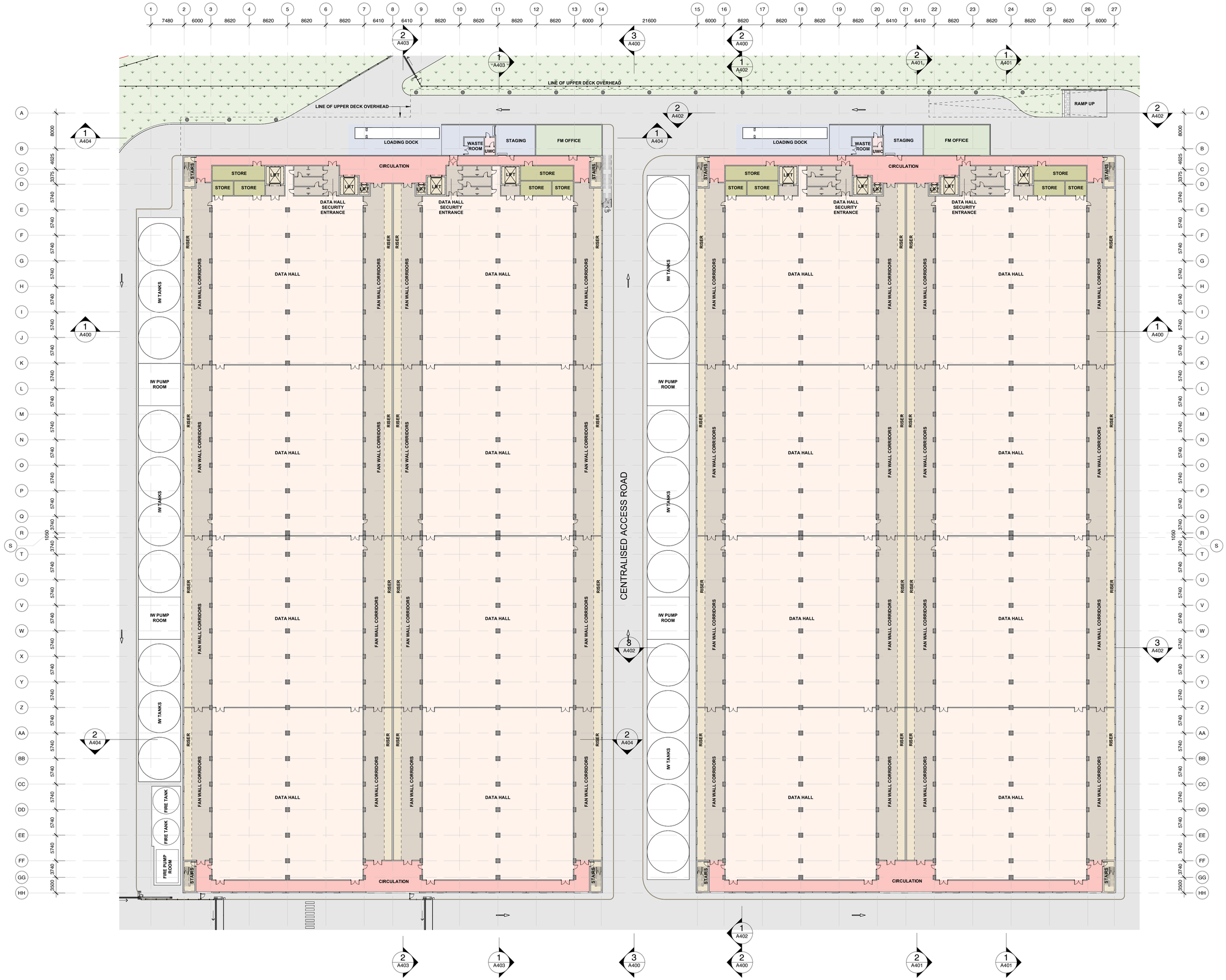
Genton

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Mel. +61 3 9078 3686
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Project	Title
LOCKWOOD ROAD DC	SITE PLAN

Project No.	Drawing No.	Date	Scale
2413	SSDA-DR-A005	08/08/2025	1 : 850 @ A1

Rev No.	Date	Description
A	08/08/2025	SSD SUBMISSION - 78 LOCKWOOD ROAD



DEPARTMENTS

- AMENITIES
- BACK OF HOUSE
- CIRCULATION - CORRIDOR
- CIRCULATION - VERTICAL
- DATA HALL
- LOADING DOCK
- OFFICES
- PLANT
- STORAGE

Genton

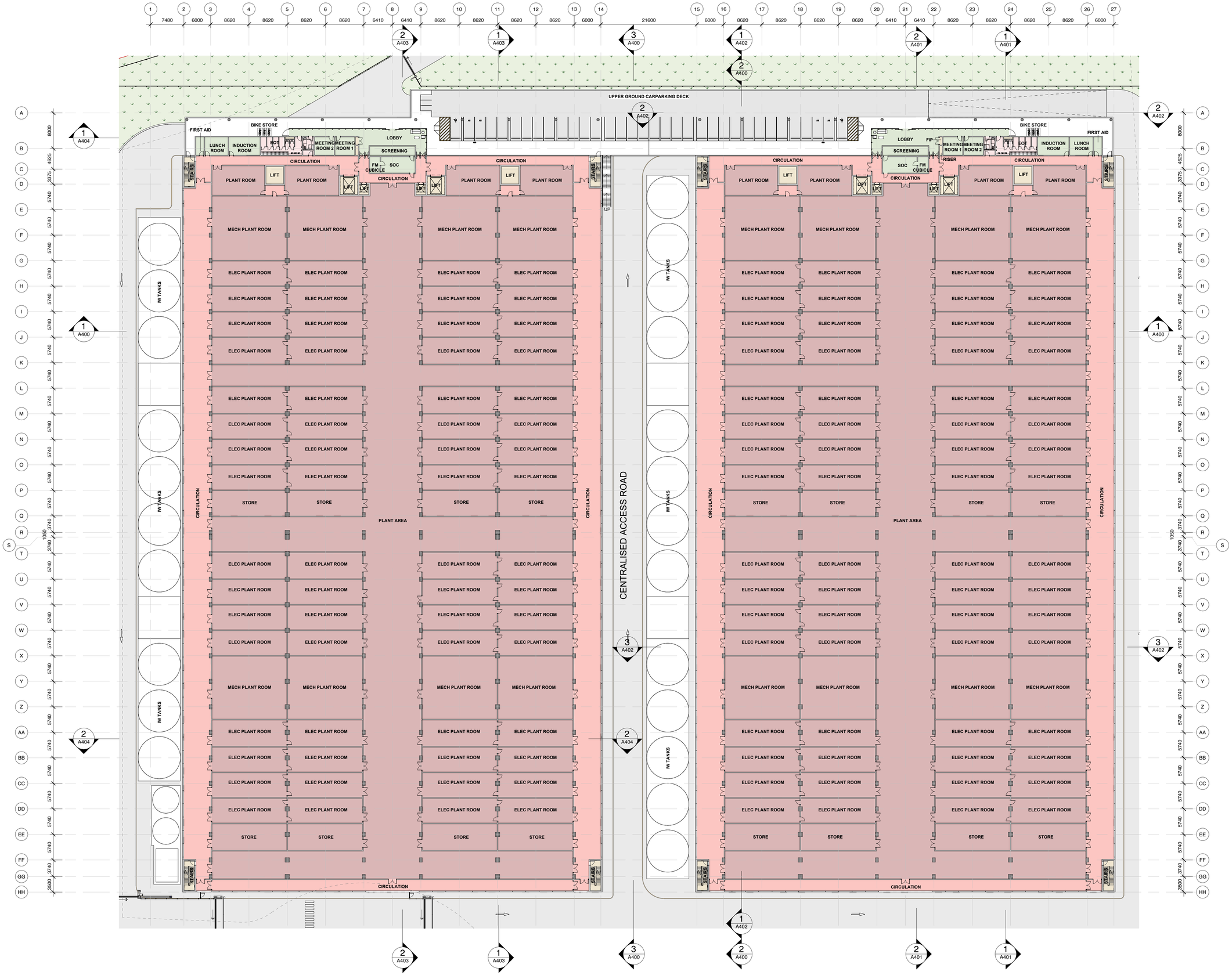
Syd. +61 2 9696 5002
Mel. +61 3 9078 3686
genton.com.au

Project	Title
LOCKWOOD ROAD DC	GENERAL ARRANGEMENT PLAN - LOWER GROUND

Project No.	Drawing No.	Date	Scale
2413	SSDA-DR-A200	08/08/2025	1 : 400 @ A1

Rev No.	Date	Description
A	08/08/2025	SSD SUBMISSION - 78 LOCKWOOD ROAD

0 8 16 24 32 40 m



DEPARTMENTS

- AMENITIES
- BACK OF HOUSE
- CIRCULATION - CORRIDOR
- CIRCULATION - VERTICAL
- DATA HALL
- LOADING DOCK
- OFFICES
- PLANT
- STORAGE

Genton

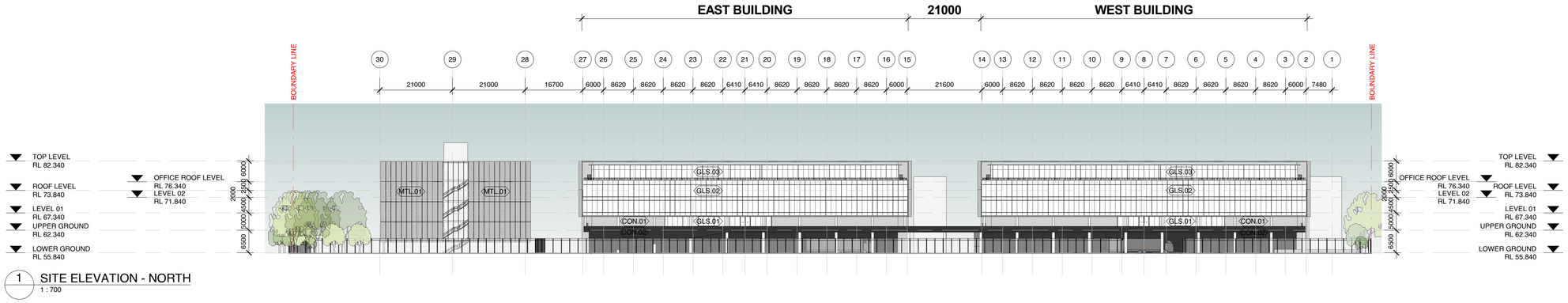
Syd. +61 2 9696 5002
Mel. +61 3 9078 3686
genton.com.au

Project	Title
LOCKWOOD ROAD DC	GENERAL ARRANGEMENT PLAN - UPPER GROUND

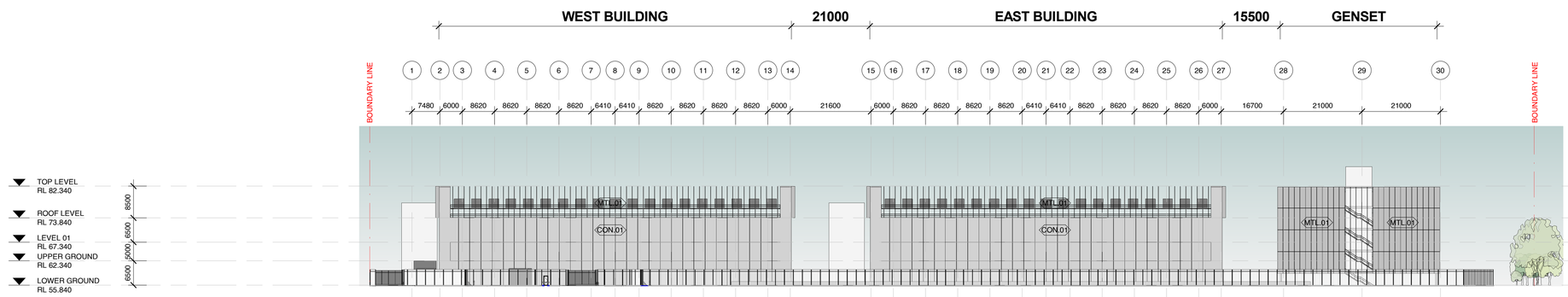
Project No.	Drawing No.	Date	Scale
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Rev No.	Date	Description
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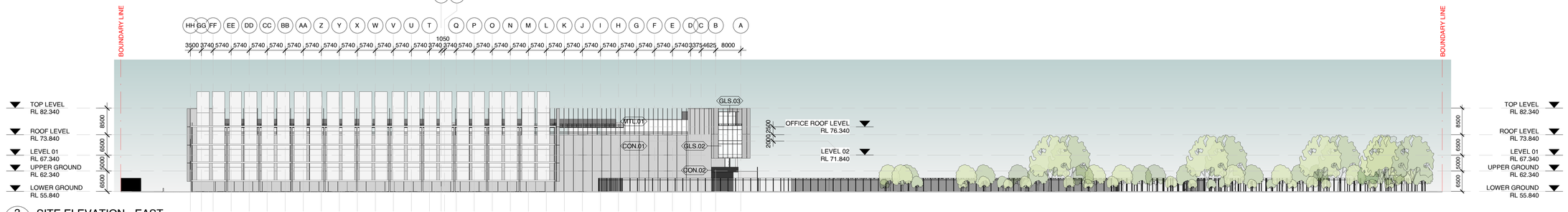
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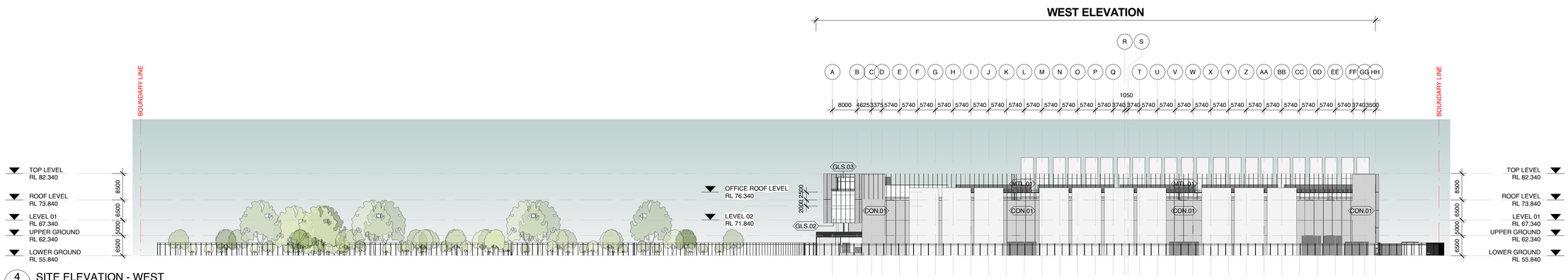
1 SITE ELEVATION - NORTH
1 : 700



2 SITE ELEVATION - SOUTH
1 : 700



3 SITE ELEVATION - EAST
1 : 700



4 SITE ELEVATION - WEST
1 : 700

EXTERNAL FINISHES

CON.01	PRECAST CONCRETE	LIGHT GREY FINISH
CON.02	PRECAST CONCRETE	DARK GREY FINISH
CON.03	CONCRETE COLUMNS	OFF WHITE FINISH
GLS.01	GLAZED FACADE	CLEAR FRAMELESS GLASS
GLS.02	GLAZED FACADE	ANTI-REFLECTION & SECURE FILM GLASS
GLS.03	GLAZED FACADE	CLEAR GLASS WITH LIGHT GREY FRAMING
MTL.01	PREFINISHED METAL CLADDING	SILVER GREY FINISH
RP-01	FACADE SECTIONS TO BE REMOVABLE PANELS / LOUVRES TO FACILITATE EQUIPMENT INSTALLATION & REPLACEMENT	

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Project	Title
LOCKWOOD ROAD DC	ELEVATIONS - SITE

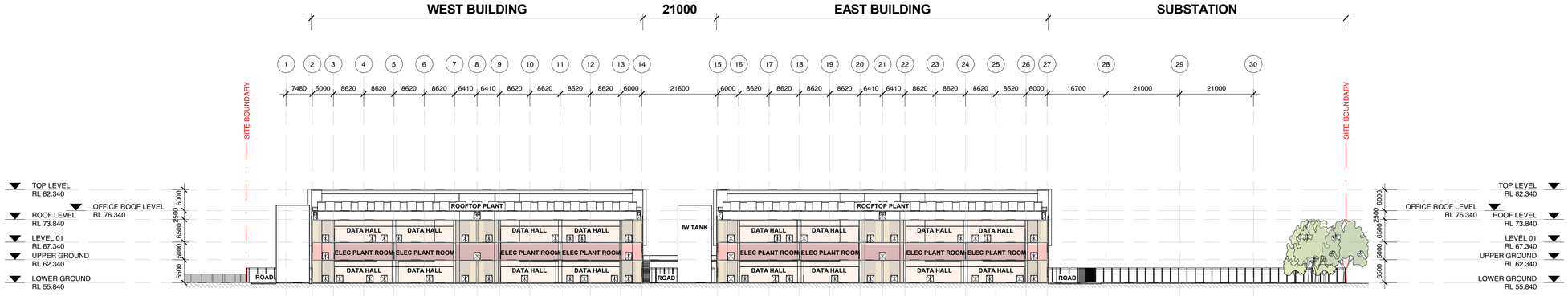
Project No.	Drawing No.	Date	Scale
2413	SSDA-DR-A300	08/08/2025	1 : 700 @ A1

Rev No.	Date	Description
A	08/08/2025	SSD SUBMISSION - 78 LOCKWOOD ROAD

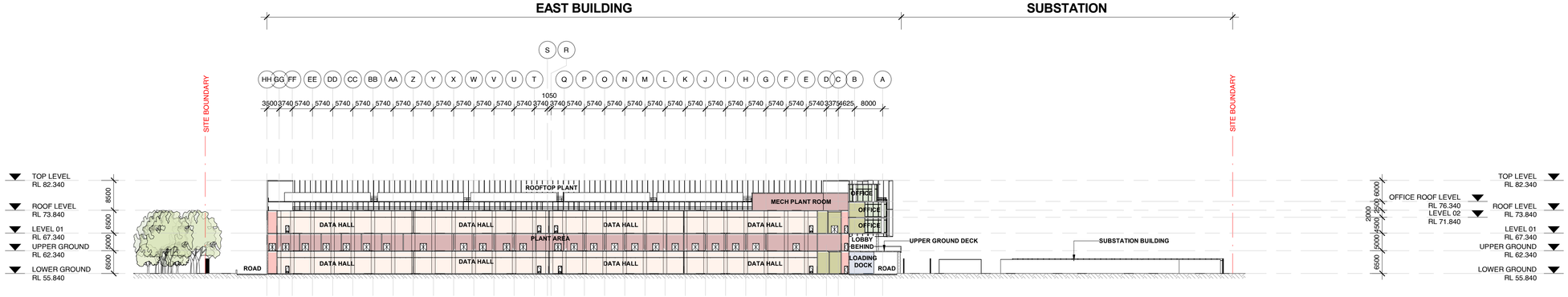
0 14 28 42 56 70 m

DEPARTMENTS

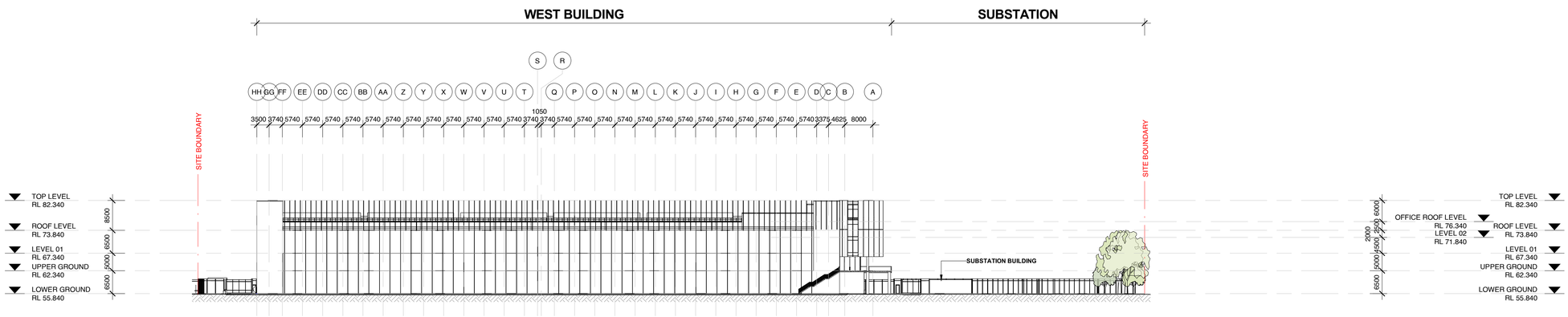
- AMENITIES
- BACK OF HOUSE
- CIRCULATION - CORRIDOR
- CIRCULATION - VERTICAL
- DATA HALL
- LOADING DOCK
- OFFICES
- PLANT
- STORAGE



1 SITE OVERALL SECTION 01
1 : 700



2 SITE OVERALL SECTION 02
1 : 700



3 SITE OVERALL SECTION 03
1 : 700

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Project	Title
LOCKWOOD ROAD DC	SECTIONS - SITE

Project No.	Drawing No.	Date	Scale
2413	SSDA-DR-A400	08/08/2025	1 : 700 @ A1

Rev No.	Date	Description
A	08/08/2025	SSD SUBMISSION - 78 LOCKWOOD ROAD

0 14 28 42 56 70 m

LEGEND

CUT		FILL	
-5.00 to -4.50 m		0.00 to 0.50 m	
-4.50 to -4.00 m		0.50 to 1.00 m	
-4.00 to -3.50 m		1.00 to 1.50 m	
-3.50 to -3.00 m		1.50 to 2.00 m	
-3.00 to -2.50 m		2.00 to 2.50 m	
-2.50 to -2.00 m		2.50 to 3.00 m	
-2.00 to -1.50 m		3.00 to 3.50 m	
-1.50 to -1.00 m		3.50 to 4.00 m	
-1.00 to -0.50 m		4.00 to 4.50 m	
-0.50 to -0.00 m		4.50 to 5.00 m	

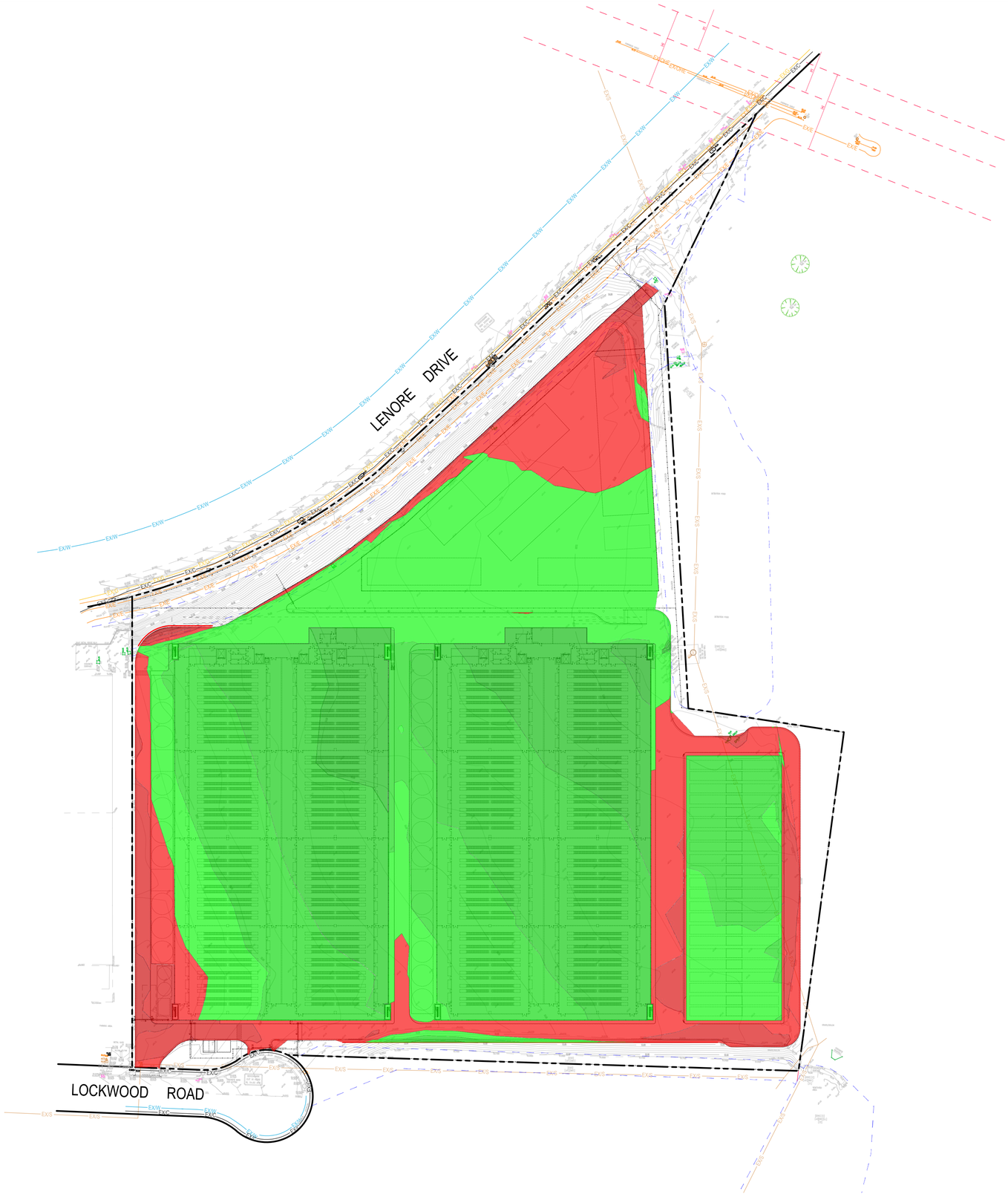
CUT / FILL QUANTITIES

TOTAL CUT	-4,545m³
TOTAL FILL	44,325m³
TOTAL BALANCE	39,780m³

NOTE: ALL EARTHWORKS QUANTITIES ARE THEORETICAL AND INDICATIVE ONLY, BASED UPON BANKED VOLUMES WITH NO ALLOWANCE FOR BULKING FACTORS. CONTRACTOR TO MAKE HIS OWN ASSESSMENT OF EARTHWORKS QUANTITIES

NOTES:

1. ALL EARTHWORKS AND SUBGRADE PREPARATION SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE SITE GEOTECHNICAL INVESTIGATION RECOMMENDATIONS.
2. A NOMINAL 150mm DEPTH ALLOWANCE FOR STRIP TOPSOIL TO THE EXISTING SURFACE HAS BEEN INCLUDED IN THE CUT AND FILL ASSESSMENT.
3. BULKING AND COMPACTION FACTORS HAVE NOT BEEN APPLIED TO THE CUT AND FILL QUANTITIES.
4. A NOMINAL 500mm BOXING OUT ALLOWANCE FOR BUILDING FLOOR SLABS, PAVEMENT AND LANDSCAPING HAS BEEN INCLUDED TO THE CUT AND FILL QUANTITIES.
5. CLASSIFICATION OF EXCAVATED (CUT) MATERIAL IS TO BE COMPLETED BY GEOTECHNICAL ENGINEER. TESTING OF EXCAVATED MATERIAL TO BE UNDERTAKEN UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER BY A NATA REGISTERED LABORATORY.
6. DETAILED BULKING AND CUT / FILL QUANTITIES FOR FOOTINGS, TRENCHING AND THE LIKE HAS NOT BEEN INCLUDED IN THE CUT AND FILL ASSESSMENT.
7. ALL TOPSOIL SHALL BE RETAINED ON THE DEVELOPMENT SITE AND UTILISED EFFECTIVELY TO ENCOURAGE APPROPRIATE RE-VEGETATION.



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Issue.	Description	Date	Drawn	Approved
A	ISSUE FOR SSDA	05.08.25	RP	MB

North

Scale
0 10 20 40 60m
SCALE BAR 1:1000 @A1 1:2000 @A3

PRINT IN COLOUR

Client
STACK INFRASTRUCTURE

Architect
Genton
LEVEL 7, 222 CLARENCE STREET
SYDNEY, NSW 2000
T: (02) 9696 5002

ACOR CONSULTANTS
ACOR Consultants Pty Ltd
Level 8, 55 Market Street
Sydney NSW 2000
T +61 2 9438 5098

Project
LOCKWOOD ROAD DC
78 LOCKWOOD ROAD
ERSKINE PARK, NSW 2759

NOT FOR CONSTRUCTION

Drawing Title
CIVIL SERVICES
BULK EARTHWORKS PLAN

Drawn	Designed	Q.A. Check	Date	Scale @ A1
RP	JO	MB	05.08.25	1:1000

Project No.	Drawing No.	Issue
NA251463	C04-0001	A

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Aug 05, 2025 - 2:55pm
\\SYDFS01\Projects\NA\NA251463\Drawings\CAD\CIVIL\Drawings\NA251463-Civil-0001.dwg

Appendix B

About This Report

About this Report

November 2023

Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

Copyright

This report is the property of Douglas Partners Pty Ltd. The report may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Engagement for the commission supplied at the time of proposal. Unauthorised use of this report in any form whatsoever is prohibited.

Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

- In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;
- A localised, perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be the same at the time of construction as are indicated in the report; and
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions. The potential for this will depend partly on borehole or pit spacing and sampling frequency;
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

continued next page

About this Report

Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

Information for Contractual Purposes

Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.

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Appendix C

Information Extracted from Previous Reports and Information

Appendix C1

Selected Drawings Extracted from Previous Reports and Information

CUT AND FILL LEGEND

- GREATER THAN 3.5m CUT
- 3.5m TO 3.0m CUT
- 3.0m TO 2.5m CUT
- 2.5m TO 2.0m CUT
- 2.0m TO 1.5m CUT
- 1.5m TO 1.0m CUT
- 1.0m TO 0.5m CUT
- 0.5m TO 0.0m CUT
- 0.0m TO 0.5m FILL
- 0.5m TO 1.0m FILL
- 1.0m TO 1.5m FILL
- 1.5m TO 2.0m FILL
- 2.0m TO 2.5m FILL
- 2.5m TO 3.0m FILL
- GREATER THAN 3.0m FILL

NOTES

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL/RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
2. CUT AND FILL IS INDICATIVE ONLY AND DOES NOT ALLOW FOR TEMPORARY INTERFACES, EXISTING PAVEMENT DEMOLITION OR BULKING FACTORS.
3. APPROXIMATE EARTHWORKS VOLUMES:
   - 3.1. CUT = 73548m^3
   - 3.2. FILL = 70855m^3
   - 3.3. BALANCE = 2693m^3 (EXPORT)
4. VOLUMES DO NOT DIFFERENTIATE BETWEEN GENERAL MATERIAL AND ROCK.
5. THE SUITABILITY OF EXCAVATION MATERIAL FOR USE AS FILL ONSITE IS TO BE CONFIRMED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.
6. VOLUMES INCLUDE 100mm TOPSOIL STRIPPING ALLOWANCE FOR THE WESTERN COMPONENT OF THE SITE.
7. VOLUMES ASSUME DEPTH OF EXISTING DAMS DO NOT EXCEED 1m IN DEPTH.
8. VOLUMES INCLUDE EARTHWORKS ASSOCIATED WITH PROPOSED SEDIMENT BASINS. STOCKPILING OF EXCAVATED MATERIAL TO BE PROVIDED TO ALLOW FOR FILLING OF BASINS AT A LATER DATE. APPROXIMATE EARTHWORKS ASSOCIATED WITH SEDIMENT BASINS 13400m^3
9. ESTIMATED CUT TO EXPORT = 10707m^3
10. NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS ASSOCIATED WITH THE FUTURE COMMERCIAL SITES.
11. NO ALLOWANCE HAS BEEN MADE FOR SERVICE/STORMWATER TRENCHING.

PENRITH CITY COUNCIL
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
This plan / document relates to
Development Consent: DA19/0818
Subdivision Works Certificate: EA20/0055
Subject to the conditions outlined in the consent

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daniel@esr.com

EXISTING BASIN
PROPOSED ARTIFICIAL WATER BODY - PART OF SEPARATE DA. DA19/0817
FLOOD CORRIDOR
EXISTING BASIN
EXISTING MOUND
EXISTING TOPSOIL MOUND
LENORE DRIVE
WESTERN NORTH-SOUTH ROAD
LOCKWOOD ROAD
LOCKWOOD ROAD EXTENSION
SUBJECT TO SEPARATE DA. DA15/0843
1 C04.21
2 C04.21 & C04.22
3 C04.23

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
7	25/01/2021	ISSUED FOR CONSTRUCTION CERTIFICATE	JT	MC	MKH	MKH
6	20/01/2021	ISSUED FOR CONSTRUCTION CERTIFICATE	CB	MC	MKH	MKH
5	04/12/2020	ISSUED FOR CONSTRUCTION CERTIFICATE	JT	MC	MKH	MKH
4	26/11/2020	ISSUED FOR CONSTRUCTION CERTIFICATE	JT	MC	MKH	MKH
3	23/11/2020	ISSUED FOR CONSTRUCTION CERTIFICATE	JT	MC	MKH	MKH
2	17/11/2020	ISSUED FOR CONSTRUCTION CERTIFICATE	JT	MC	MKH	MKH
1	11/11/2020	ISSUED FOR CONSTRUCTION CERTIFICATE	JT	MC	MKH	MKH

Client: FDC

Scale: 0 20 40 60 80 100m — SCALE 1:1000 A1

North

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enspire
Enspire Solutions Pty Ltd
205/275 Alfred Street N, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project: ERSKINE PARK INDUSTRIAL ESTATE
STORMWATER MANAGEMENT &
PAD SITE BULK EARTHWORKS

Title: BULK EARTHWORKS CUT AND FILL PLAN

Scale: 1:1000
Date: 11/11/2020
Size: A1
Datum: A.H.D

Status: FOR CONSTRUCTION (7)

Project Number/Drawing Number: 190050-03-CC-C04.01

Revision: 7

DATE PLOTTED: 25 January 2021 4:19 PM BY - JADE TAI

CAD File: P:\190050 ErskinePark\D-Civil\03-Pad Sites Bulk Earthworks\Drawings\6-DACC\03-CC\190050-03-CC-C04.01 BULK EARTHWORKS CUT AND FILL PLAN.dwg

Extracted From CES (2006)



CONSULTING EARTH SCIENTISTS
1/111 Moore Street
Leichhardt NSW, 2040
ph 8585 4888 fax 9550 9566

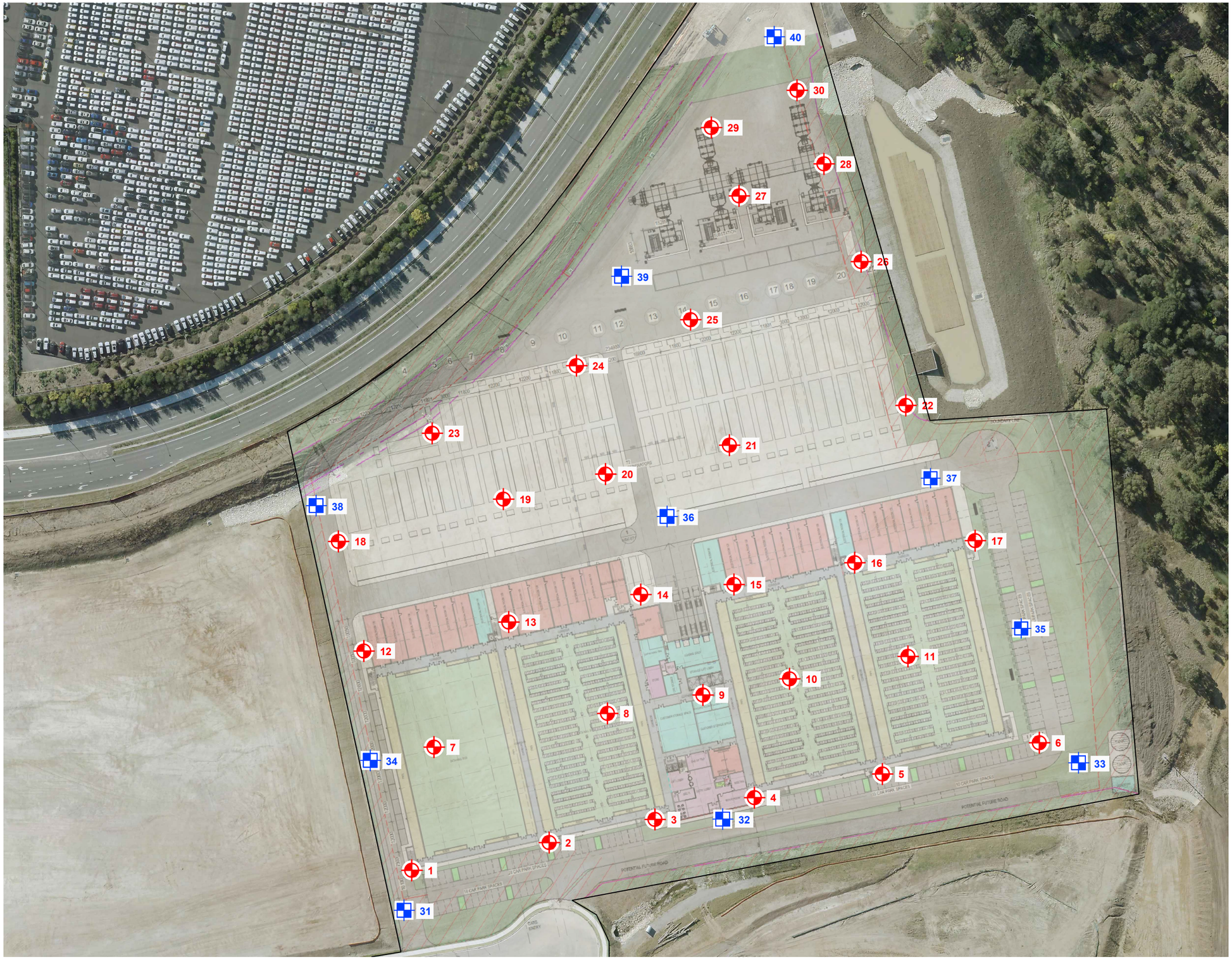
Title

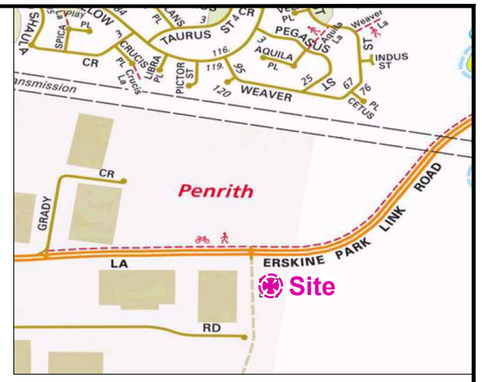
Figure 2
Erskine Park - Areas of Concern

CES Project ID:	Date:
CES060703-FDC	01/09/2006
Prepared By:	Checked By:
M.Howden	B.C.Furr

Document Set ID: 9180002
Version: 1, Version Date: 17/06/2020

Extracted From DP (2022)





Location Plan

N

0 20 40 60 80

SCALE 1: 2,000 (A3)

LEGEND:-

- Borehole Location and Number
- Test Pit Location and Number

NOTE:-

1. Test locations are approximate only and are shown with reference to existing site features.
2. Image obtained from Metromap. Date of imagery 15-08-2021.

Douglas Partners
Geotechnics | Environment | Groundwater

CLIENT:		
OFFICE: North West Sydney	DRAWN BY: JST	
SCALE: As shown	DATE: 15 December 2021	

TITLE: **Site and Test Location Plan**

68-124 Lockwood Road, Erskine Park

PROJECT No: 207476.00

DRAWING No: 1

REVISION: 0

P:\NSW\207476.00\207476.00.D.001.Rev0.dwg

Extracted From JKE (2023)



Confidential
daniel.mcdonald@jkenvironments.com.au
2023-06-18 23:03:11 +0000

LEGEND

APPROXIMATE SITE BOUNDARY	
FCF(Surface)	APPROXIMATE FIBRE CEMENT FRAGMENT LOCATION, NUMBER AND DEPTH (Surface/m)

AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM

0 25 50 75 100 125

SCALE 1:2500 @A3 METRES

This plan should be read in conjunction with the Environmental report.

Title: **SITE FEATURES PLAN**

Location: LOT 101 / DP1268632, 78 LOCKWOOD ROAD, ERSKINE PARK, NSW

Project No: E35842PL

Figure No: 2

JKEnvironments

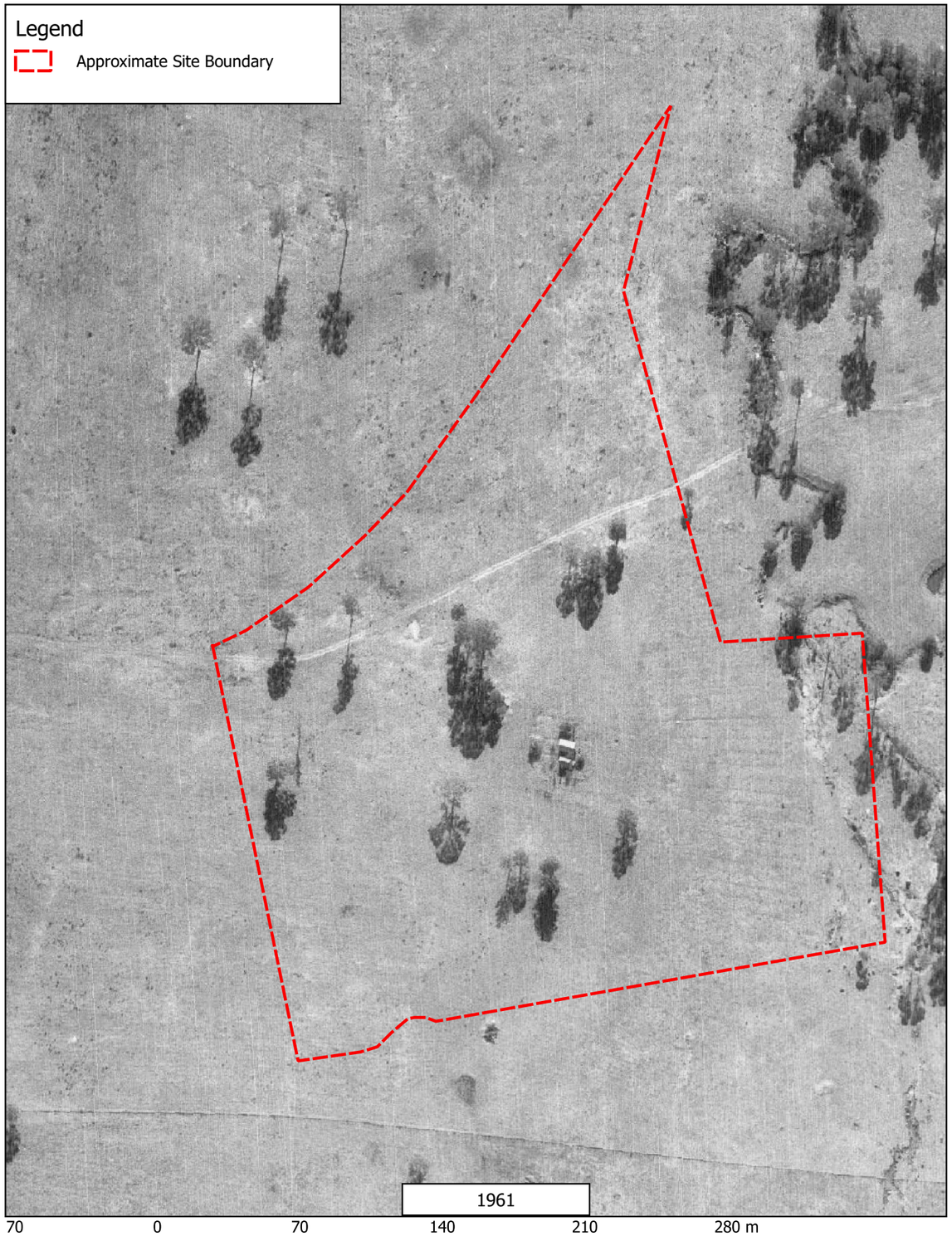
PLOT DATE: 28/03/2023 2:57:56 PM DWG FILE: K:\5C EIS JOBS\35000'S\E35842PL ERSKINE PARK\CAD\E35842PL.DWG

© JK ENVIRONMENTS

Appendix C2

Aerial Photographs, Drawings and Logs Extracted from DP (2023a)

Extracted From DP (2023a)

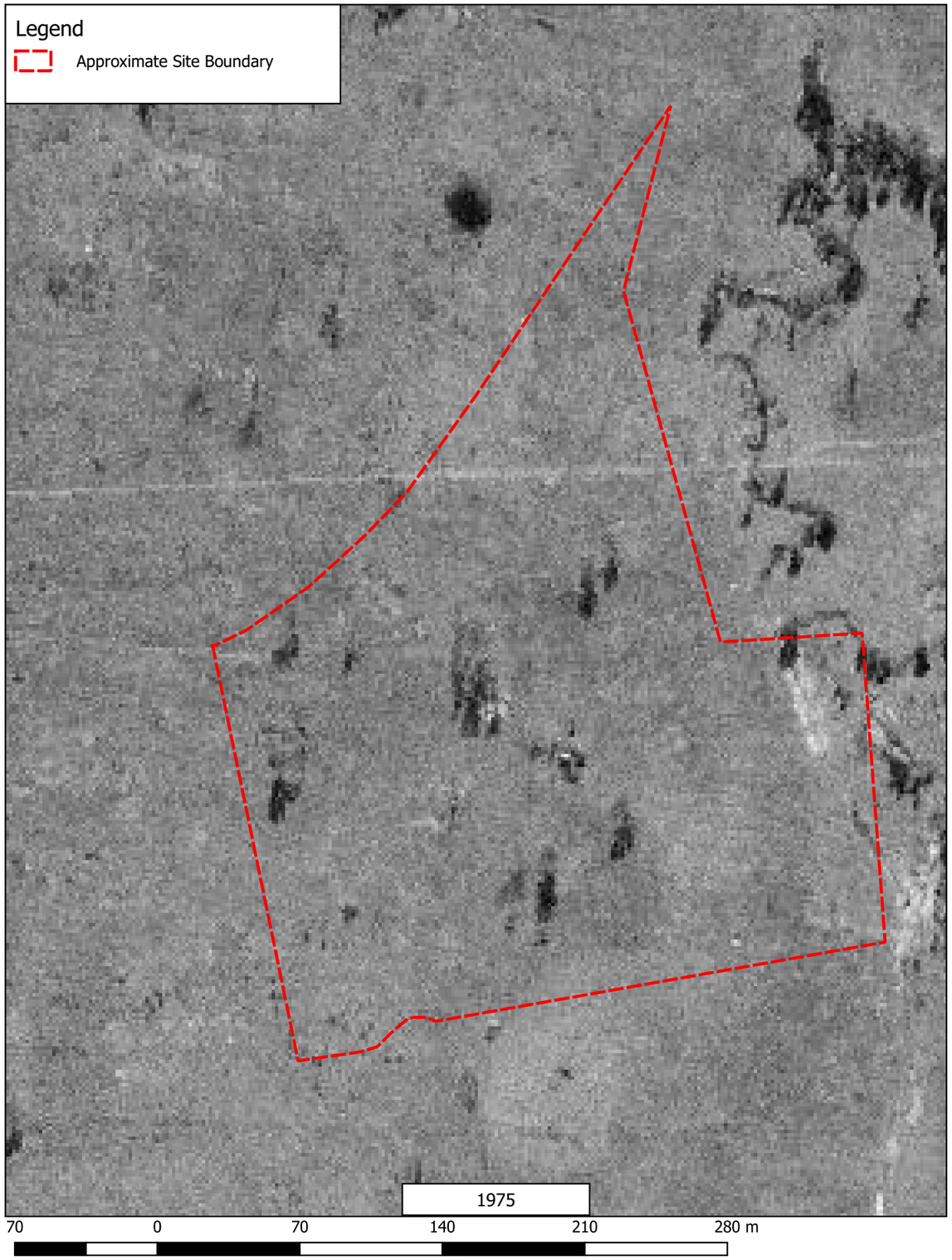


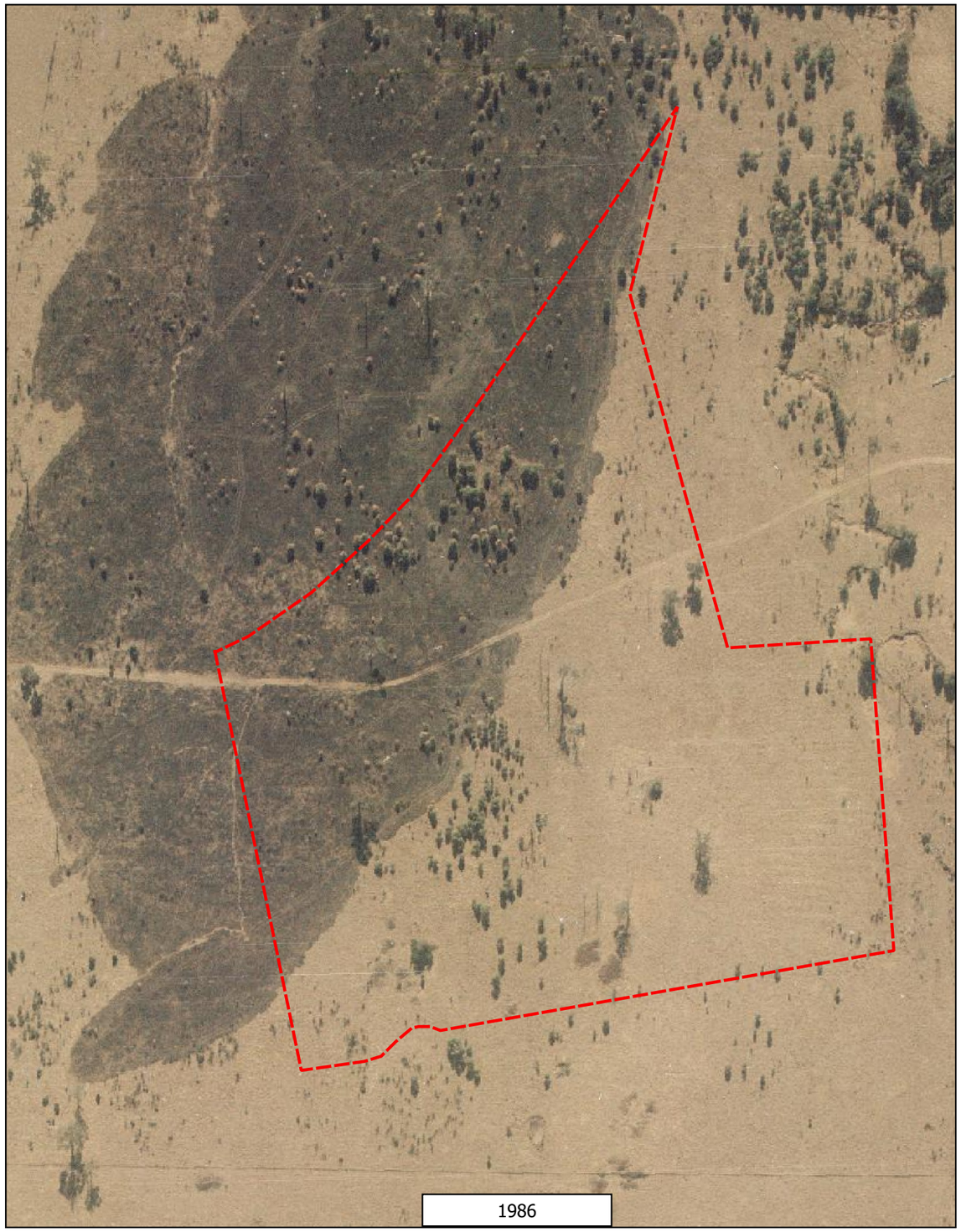


Douglas Partners
Geotechnics / Environment / Groundwater

CLIENT:		TITLE: **Historical Aerial Photographs**	PROJECT No:207476.01
OFFICE: NW Sydney	DRAWN BY: KN		DRAWING No: 3
SCALE: 1:2500 @ A3	DATE: 4.04.23	**78 Lockwood Road, Erskine Park**	REVISION: 0

Extracted From DP (2023a)

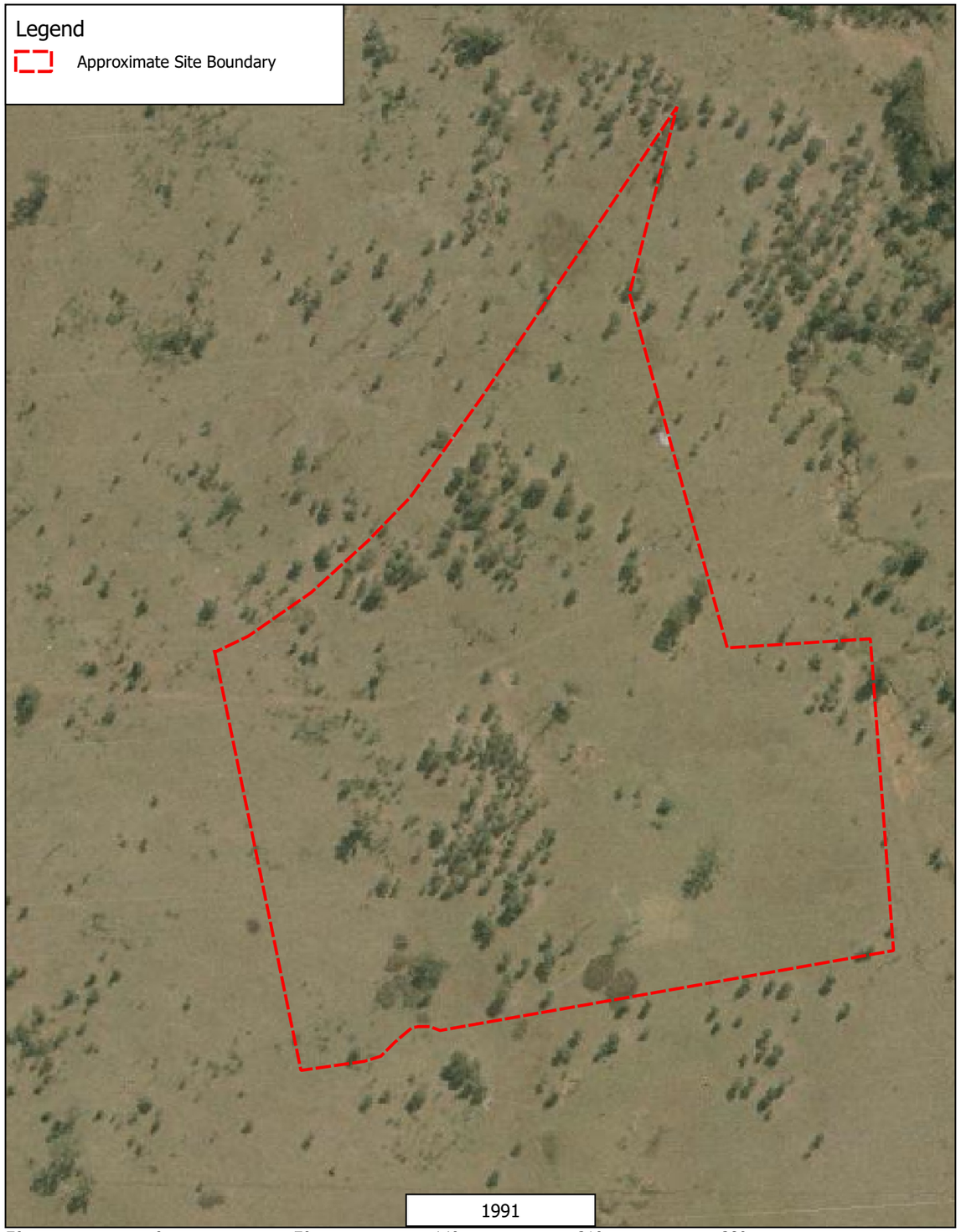




Douglas Partners
Geotechnics / Environment / Groundwater

CLIENT:		TITLE: **Historical Aerial Photographs**	PROJECT No:207476.01
OFFICE: NW Sydney	DRAWN BY: KN		DRAWING No: 4
SCALE: 1:2500 @ A3	DATE: 4.04.23	**78 Lockwood Road, Erskine Park**	REVISION: 0

Extracted From DP (2023a)





Douglas Partners
Geotechnics / Environment / Groundwater

CLIENT:		TITLE: **Historical Aerial Photographs**	PROJECT No:207476.01
OFFICE: NW Sydney	DRAWN BY: KN		DRAWING No: 5
SCALE: 1:2500 @ A3	DATE: 4.04.23	**78 Lockwood Road, Erskine Park**	REVISION: 0

Extracted From DP (2023a)





Douglas Partners
Geotechnics / Environment / Groundwater

CLIENT:		TITLE: **Historical Aerial Photographs**	PROJECT No:207476.01
OFFICE: NW Sydney	DRAWN BY: KN		DRAWING No: 6
SCALE: 1:2500 @ A3	DATE: 4.04.23	**78 Lockwood Road, Erskine Park**	REVISION: 0

Extracted From DP (2023a)



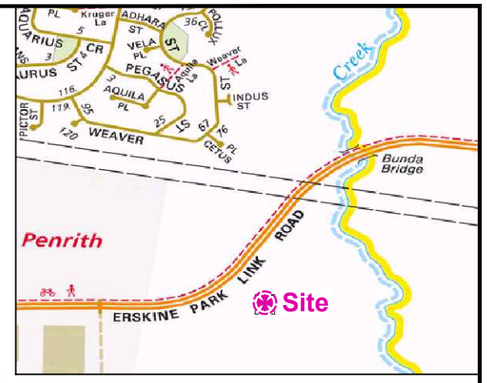


Douglas Partners
Geotechnics / Environment / Groundwater

CLIENT:		TITLE: **Historical Aerial Photographs**	PROJECT No:207476.01
OFFICE: NW Sydney	DRAWN BY: KN		DRAWING No: 7
SCALE: 1:2500 @ A3	DATE: 4.04.23	**78 Lockwood Road, Erskine Park**	REVISION: 0

Extracted From DP (2023a)





Location Plan

N

0 20 40 60 80
SCALE 1: 2,000 (A3)

LEGEND:-

- Test Pit Location and Number
- Approximate Site Boundary

NOTE:-

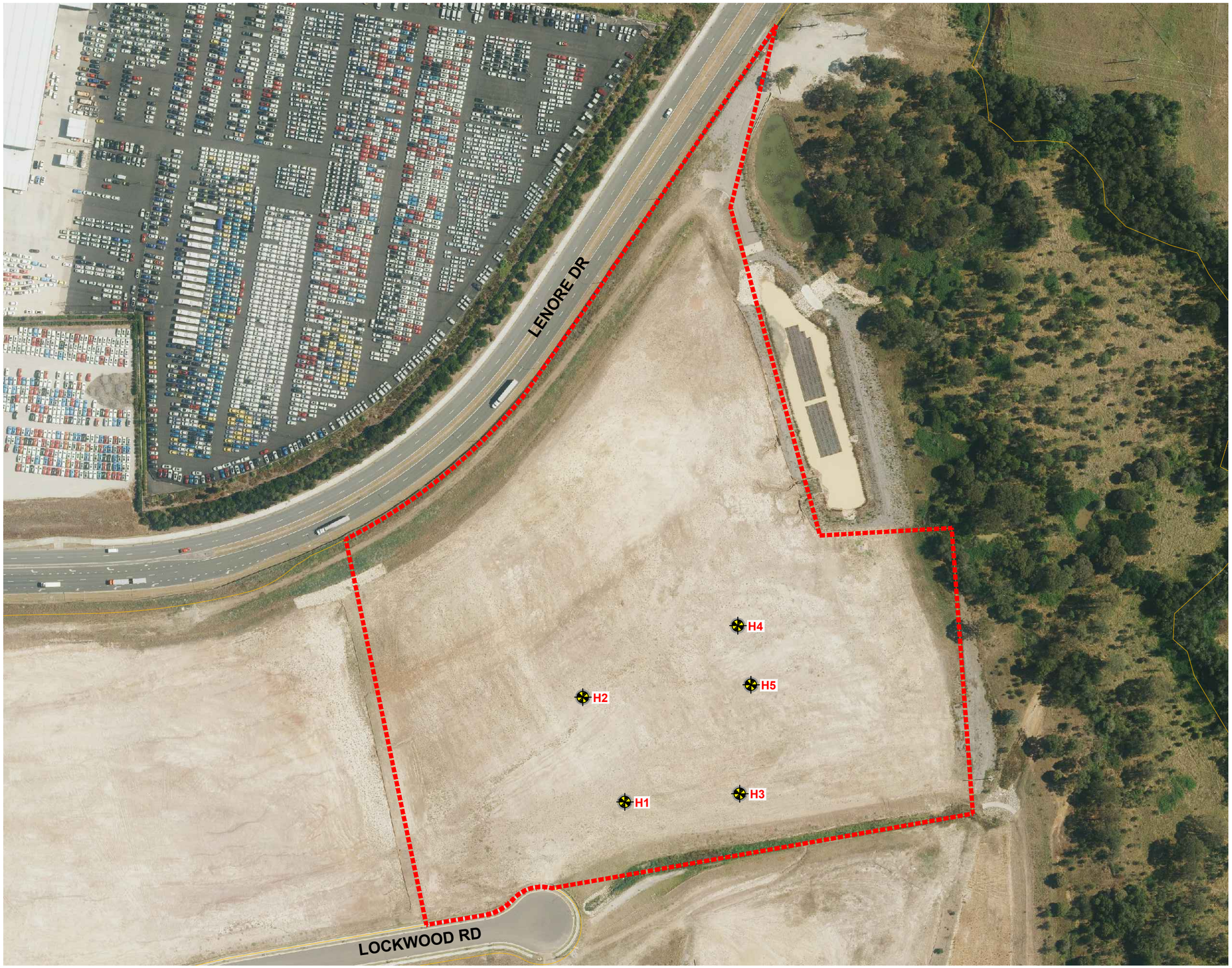
1. Test locations are approximate only and are shown with reference to existing site features.
2. Image obtained from Metromap. Date of imagery 03-01-2023.

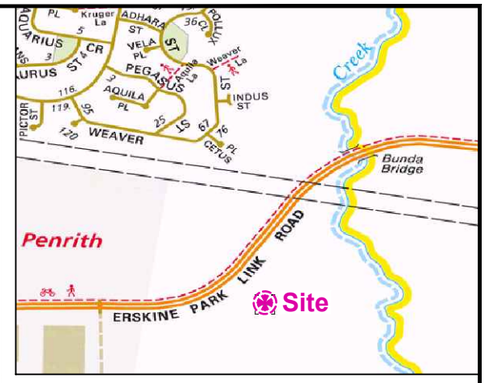
Douglas Partners
Geotechnics | Environment | Groundwater

CLIENT:		TITLE: **Site and Test Location Plan**	PROJECT No: 207476.01
OFFICE: Brisbane	DRAWN BY: JST	**78 Lockwood Road, Erskine Park**	DRAWING No: 1
SCALE: As shown	DATE: 14 March 2023		REVISION: 0

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Extracted From DP (2023a)





Location Plan

N

0 20 40 60 80

SCALE 1: 2,000 (A3)

LEGEND:-

- Surface Sample Location and Number
- Approximate Site Boundary

NOTE:-

1. Test locations are approximate only and are shown with reference to existing site features.
2. Image obtained from Metromap. Date of imagery 03-01-2023.

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CLIENT:	
OFFICE: Brisbane	DRAWN BY: JST
SCALE: As shown	DATE: 29 March 2023

TITLE: **Surface Sample Location Plan**

78 Lockwood Road, Erskine Park

PROJECT No:	207476.01
DRAWING No:	2
REVISION:	0

P:\NSW\207476.01\207476.01.D.002.Rev0.dwg

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.7 AHD
COORDINATE E:297363.9 **N:** 6255953.2
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 1
PROJECT No: 207476.01
DATE: 10/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	0.0	FILL/ (CI) Silty CLAY; pale brown; low plasticity; trace surficial vegetation, trace gravel		FILL	WC	<PL		A B		0.1 0.2		
	0.3	(CI-CH) Silty CLAY; brown, mottled orange; medium to high plasticity; stiff		RES	ST	<PL		A		0.4		
	0.5	Test pit discontinued at 0.50m depth								0.5		

55 54 53 52

1 2 3

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: AFH

EXPORTED 04/04/23 18:59. TEMPLATE ID: DP_101.02.00_SOILLOG

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.5 AHD
COORDINATE E:297471.2 **N:** 6255984.4
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 2
PROJECT No: 207476.01
DATE: 08/02/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	54	0.0	FILL/ (CI) Silty CLAY; pale grey; medium plasticity; trace surficial vegetation		FILL	VC	<PL		A		0.1		
		0.2									0.2		
		0.3	FILL/ (CI) Silty CLAY; brown; medium plasticity; with gravel, trace sand		FILL	WC	<PL		A		0.9		
	53	1							B		1.0		
		1.4							A		1.4		
		1.5	FILL/ (CI) Silty CLAY; brown; medium plasticity; trace rootlets, trace organic matter		FILL	PC	<PL				1.5		
		1.6	(CI-CH) Silty CLAY; pale brown; medium to high plasticity; stiff		RES	ST	<PL						
		1.8	Test pit discontinued at 1.80m depth										
	52	2									2		
	51	3									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: AFH

EXPORTED 04/04/23 18:59. TEMPLATE ID: DP_101.02.00_SOILLOG

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.8 AHD
COORDINATE E:297564.8 **N:** 6256000.1
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 3
PROJECT No: 207476.01
DATE: 08/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	0.0 / 53.8	FILL/ (CI) Silty CLAY; brown; medium plasticity; trace surficial vegetation, trace sand		FILL	VC	<PL		A	0.1 - 0.2	0.1 - 0.2		
	0.4 / 53.4	FILL/ (CI) Silty CLAY; dark red, brown; medium plasticity		FILL	WC	<PL						
	1 / 52.8							A	0.9 - 1.0	0.9 - 1.0		
	1.1 / 52.7	FILL/ (CI) Silty CLAY; dark red; medium plasticity; trace gravel (possibly natural)		FILL	WC	<PL						
	1.6 / 52.2	Test pit discontinued at 1.60m depth						A	1.4 - 1.5	1.4 - 1.5		
	2 / 51.8									2		
	3 / 50.8									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: RD

EXPORTED 04/04/23 18:59. TEMPLATE ID: DP_101.02.00_SOILLOG

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.4 AHD
COORDINATE E:297624.2 **N:** 6256011
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 4
PROJECT No: 207476.01
DATE: 08/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
Moist below 1.3m	0.0 / 53	FILL/ (CI) Silty CLAY; brown; medium plasticity; trace sand, trace plastic, with surficial vegetation		FILL	MC	<PL		A		0.1 0.2		
	0.4	FILL/ (CI) Silty CLAY; grey brown; medium plasticity; trace plastic		FILL	WC	<PL		A		0.4 0.5		
	0.9 / 52	(CI) Silty CLAY; pale grey, orange; medium plasticity; stiff to very stiff		RES	ST TO VST	<PL		A		0.9 1.0		
	1.8 / 51	Test pit discontinued at 1.80m depth								2		
	50									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire

LOGGED: RD

EXPORTED 04/04/23 18:59. TEMPLATE ID: DP_101.02.00_SOILLOG

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.4 AHD
COORDINATE E:297387.3 **N:** 6255980.1
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 5
PROJECT No: 207476.01
DATE: 10/03/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	55	0.0	FILL/ (CI) Silty CLAY; brown; medium plasticity; trace surficial vegetation, trace ironstone gravel, with gravel		FILL	WC	<PL		A	0.1	0.1		
										0.2	0.2		
									A	0.4	0.4		
									B	0.5	0.5		
		1							A	0.9	0.9		
										1.0	1.0		
	54	1.3	FILL/ (CH) Silty CLAY; brown; high plasticity; trace gravel		FILL	VC	<PL						
		1.4	(CH) Silty CLAY; brown, mottled orange; high plasticity; stiff		RES	ST	<PL		A	1.4	1.4		
										1.5	1.5		
									A	1.65	1.65		
										1.75	1.75		
		1.8	Test pit discontinued at 1.80m depth										
	53	2									2		
		3									3		
	52												

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire

LOGGED: AFH

EXPORTED 04/04/23 18:59. TEMPLATE ID: DP_101.02.00_SOILLOG

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.2 AHD
COORDINATE E:297489.4 **N:** 6256005.5
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 6
PROJECT No: 207476.01
DATE: 08/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	54	0.0	FILL/ (CI) Silty CLAY; pale grey; low plasticity; with surficial vegetation		FILL	WC	<PL		A	0.1–0.2	0.1		
		0.3	FILL/ (CI-CH) Silty CLAY; pale orange, mottled grey; medium to high plasticity; trace gravel		FILL	WC	<PL		A B	0.9–1.0	0.9		
	53	1									1		
		1.7	FILL/ (CI-CH) Silty CLAY; pale grey; medium to high plasticity; trace gravel		FILL	WC	<PL		A	1.7–1.8	1.7		
		1.9	(CI-CH) Silty CLAY; pale orange, mottled grey; medium to high plasticity; stiff		RES	ST	<PL						
		2.0	Test pit discontinued at 2.00m depth								2		
	52												
		3									3		
	51												

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: AFH

EXPORTED 04/04/23 18:59. TEMPLATE ID: DP_101.02.00_SOILLOG

Refer to explanatory notes for symbol and abbreviation definitions

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.5 AHD
COORDINATE E:297582.9 **N:** 6256028
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 7
PROJECT No: 207476.01
DATE: 08/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53	0.0	FILL/ (Cl) Silty CLAY; brown; medium plasticity; trace gravel, trace surficial vegetation		FILL	VC	<PL		A	0.1–0.2	0.1		
		0.3	FILL/ (Cl) Silty CLAY; grey brown; medium plasticity		FILL	WC	<PL		A	0.4–0.5	0.4		
	52	0.8	(Cl-CH) Silty CLAY; pale grey, orange; medium to high plasticity; stiff		RES	ST	<PL		A	0.9–1.0	0.9		
		1.5	Test pit discontinued at 1.50m depth						A	1.4–1.5	1.5		
	51	2									2		
	50	3									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: RD

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Refer to explanatory notes for symbol and abbreviation definitions

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.7 AHD
COORDINATE E:297397 **N:** 6256026.9
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 8
PROJECT No: 207476.01
DATE: 10/03/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
No free groundwater observed	54	0.0	FILL/ (CI) Silty CLAY; pale grey; medium plasticity; trace gravel, trace ironstone gravel, trace surficial vegetation		FILL	VC	<PL		A	0.1–0.2	0.1		
		0.3	FILL/ (CI-CH) Silty CLAY; grey, mottled orange; medium to high plasticity						A	0.4–0.5	0.4		
									B		0.5		
			0.9m: high plasticity		FILL	WC	<PL		A	0.9–1.0	0.9		
		1									1.0		
									A	1.4–1.5	1.4		
		1.6									1.5		
	53	1.7	(CI-CH) Silty CLAY; orange, mottled grey; medium to high plasticity; very stiff		RES	VST	<PL						
			Test pit discontinued at 1.70m depth										
		2									2		
	52												
		3									3		
	51												

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire

LOGGED: AFH

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Refer to explanatory notes for symbol and abbreviation definitions

Douglas Partners
Geotechnics | Environment | Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.2 AHD
COORDINATE E:297455.3 **N:** 6256038.4
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 9
PROJECT No: 207476.01
DATE: 08/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	54	0.0	FILL/ (Cl) Silty CLAY; pale red, pale grey; medium plasticity; trace shale fragments, trace surficial vegetation		FILL	WC	<PL		A		0.1		
		0.2	FILL/ (Cl) Silty CLAY; dark red, pale grey; medium plasticity; trace gravel		FILL	WC	<PL		A		0.2 0.4		
		0.8	(Cl) Silty CLAY; pale grey, pale orange; medium plasticity; trace gravel, very stiff		RES	VST	<PL		A		0.5 0.9		
	53	1									1.0		
		1.3	Test pit discontinued at 1.30m depth										
	52	2									2		
	51	3									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: RD

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Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.5 AHD
COORDINATE **E:**297537.3 **N:** 6256060.5
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 10
PROJECT No: 207476.01
DATE: 08/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	0.0 / 53	FILL/ (Cl) Silty CLAY; pale red, brown; medium plasticity; trace gravel, trace surficial vegetation		FILL	VC	<PL		A		0.1 0.2		
	0.25	FILL/ (Cl) Silty CLAY; dark orange, grey; medium plasticity; trace ironstone gravel		FILL	WC	<PL		A		0.4 0.5		
	0.9 / 1	FILL/ (Cl) Silty CLAY; pale grey, purple, orange; medium plasticity; (possibly natural)		FILL	WC	<PL		A		0.9 1.0		
	1.3 / 52	(Cl) Silty CLAY; pale grey, orange; medium plasticity; very stiff		RES	VST	<PL		A		1.4 1.5		
	1.7	Test pit discontinued at 1.70m depth										
	2 / 51									2		
	3 / 50									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: RD

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Douglas Partners
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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.2 AHD
COORDINATE **E:**297597.1 **N:** 6256074.7
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 11
PROJECT No: 207476.01
DATE: 08/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53 / 0.0	FILL/ (CI) Silty CLAY; pale brown; medium plasticity; trace sand, trace surficial vegetation		FILL	MC	<PL		A	0.1 - 0.2	0.1 - 0.2		
	0.4	(CI-CH) Silty CLAY; pale grey, red; medium to high plasticity; stiff to very stiff		RES	ST TO VST	<PL		A	0.4 - 0.5	0.4 - 0.5		
	1							A	0.9 - 1.0	0.9 - 1.0		
	52 / 1.2	(CI-CH) Silty CLAY; pale grey, pale red; medium to high plasticity; stiff to very stiff		RES	ST TO VST	<PL						
	1.8	Test pit discontinued at 1.80m depth										
	2 / 51									2		
	3 / 50									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire

LOGGED: RD

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Douglas Partners
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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.2 AHD
COORDINATE E:297349.7 **N:** 6256050.1
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 12
PROJECT No: 207476.01
DATE: 10/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	55 / 0.0	FILL/ (CI) Silty CLAY; light brown and mottled grey; medium plasticity; with ironstone gravel, trace surficial vegetation		FILL	VC	<PL	*	A	0.1–0.2	0.1		
	0.3	(CI-CH) Silty CLAY; dark orange; medium to high plasticity; trace ironstone gravel, stiff		RES	ST	<PL		A	0.4–0.5	0.4		
	0.6	Test pit discontinued at 0.60m depth								0.5		
	54 / 1									1		
	2									2		
	53 / 3									3		
	52											

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS: *PACM 2 and 3

OPERATOR: A&A Hire
LOGGED: NW

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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.1 AHD
COORDINATE E:297426.9 **N:** 6256077.2
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 13
PROJECT No: 207476.01
DATE: 08/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	54	0.0	FILL/ (CI) Silty CLAY; pale grey, pale red; medium plasticity; trace ironstone gravel, trace surficial vegetation		FILL	VC	<PL		A	0.1–0.2	0.1		
		0.2	FILL/ (CI) Silty CLAY; pale brown, pale grey; medium plasticity; trace gravel		FILL	WC	<PL		A	0.4–0.5	0.4		
		0.7	FILL/ (CI) Silty CLAY; dark brown, pale red; medium plasticity; trace gravel		FILL	WC	<PL		A	0.9–1.0	0.9		
	53	1									1		
		1.2	FILL/ (CI) Silty CLAY; dark brown/black; medium plasticity		FILL	WC	<PL		A	1.4–1.5	1.4		
		2									2		
	52	2.1	Test pit discontinued at 2.10m depth										
	51	3									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: RD

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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.7 AHD
COORDINATE E:297482.5 **N:** 6256080.5
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 14
PROJECT No: 207476.01
DATE: 08/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53 / 0.0	FILL/ (Cl) Silty CLAY; pale brown, pale grey; medium plasticity; trace gravel, trace surficial vegetation		FILL	VC	<PL		A		0.1		
	0.2	FILL/ (Cl) Silty CLAY; pale grey, pale orange; medium plasticity; trace siltstone gravel		FILL	WC	<PL		A		0.2 0.4		
	0.8	FILL/ (CH) Silty CLAY; pale grey, pale orange; high plasticity; trace gravel (possibly natural)		FILL	WC	<PL		A		0.5 0.9		
	1 / 1.3	Test pit discontinued at 1.30m depth								1.0		
	52 / 2									2		
	51 / 3									3		
	50											

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: RD

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Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.3 AHD
COORDINATE **E:**297528.9 **N:** 6256094.5
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 15
PROJECT No: 207476.01
DATE: 08/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53	0.0	FILL/ (CI) Silty CLAY; pale grey, brown; medium plasticity; trace gravel, trace surficial vegetation		FILL	VC	<PL		A	0.1–0.2	0.1		
		0.3	FILL/ (CI) Silty CLAY; pale brown, orange; medium plasticity		FILL	WC	<PL		A	0.4–0.5	0.4		
		0.8	FILL/ (CI) Silty CLAY; pale grey, red, orange; medium plasticity; trace gravel		FILL	WC	<PL		A	0.9–1.0	0.9		
	52	1.3	FILL/ (CI) Silty CLAY; pale grey, dark orange; medium plasticity; trace gravel		FILL	WC	<PL		A	1.4–1.5	1.4		
		1.7	Test pit discontinued at 1.70m depth										
	51												
	50												

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire

LOGGED: RD

EXPORTED 04/04/23 19:00. TEMPLATE ID: DP_101.02.00_SOILLOG

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.1 AHD
COORDINATE E:297567.8 **N:** 6256109.2
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 16
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53 / 0.0	FILL/ (CI) Silty CLAY; brown, dark brown and grey; medium plasticity; with ironstone and siltstone gravel, trace surficial vegetation		FILL	WC	=PL		A		0.1 0.2		
								A		0.4 0.5		
	52 / 1	1.3m: red brown, medium to high plasticity						A B		0.9 1.0		
	1.6	(CI-CH) Silty CLAY; red brown, mottled grey; medium to high plasticity; with ironstone gravel, stiff		RES	ST	=PL		A		1.4 1.5 1.7		
	1.8	Test pit discontinued at 1.80m depth								1.8		
	51 / 2									2		
	50 / 3									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: PJ

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Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.1 AHD
COORDINATE E:297333.2 **N:** 6256085.8
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 17
PROJECT No: 207476.01
DATE: 10/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	55 / 0.0	FILL/ (Cl) Silty CLAY; pale brown; medium plasticity; trace surficial vegetation, trace ironstone gravel		FILL	VC	<PL		A		0.1 0.2		
	0.3	FILL/ (Cl) Silty CLAY; pale brown, mottled grey; medium plasticity; trace rootlets, with ironstone gravel		FILL	WC	<PL		A B		0.4 0.5		
	0.8 / 1	(CH) Silty CLAY; light brown and orange; medium plasticity; trace rootlets, with ironstone gravel, stiff		RES	ST	=PL		A		0.9 1.0		
	54 / 1.05	Test pit discontinued at 1.05m depth										
	2 / 53									2		
	3 / 52									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: NW

EXPORTED 04/04/23 19:00. TEMPLATE ID: DP_101.02.00_SOILLOG

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.9 AHD
COORDINATE E:297424.5 **N:** 6256107.2
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 18
PROJECT No: 207476.01
DATE: 10/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53	0.0	FILL/ (Cl) Silty CLAY; pale brown; medium plasticity; trace surficial vegetation		FILL	VC	<PL				0.1		
		0.1	FILL/ (Cl-CH) Silty CLAY; pale brown, mottled orange; medium to high plasticity		FILL	WC	<PL		A		0.2		
		0.4	FILL/ (Cl) Silty CLAY; brown; medium plasticity		FILL	WC	<PL		B		0.3		
		0.7	FILL/ (Cl-CH) Silty CLAY; pale brown, mottled orange; medium to high plasticity		FILL	WC	<PL		A		0.4		
	1										0.5		
		1.2	(Cl-CH) Silty CLAY; pale grey, mottled orange; medium to high plasticity; stiff		RES	ST	<PL		A		0.9		
	52	1.7	Test pit discontinued at 1.70m depth								1.0		
	2										1.4		
											1.5		
	51										2		
	3										3		
	50												

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: AFH

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Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.5 AHD
COORDINATE E:297465.8 **N:** 6256122.6
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 19
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53 / 0.0	FILL/ (CL-CI) Silty CLAY; pale brown; low to medium plasticity; trace ironstone and siltstone gravel, trace surficial vegetation		FILL	VC	<PL		A		0.1		
	0.2	FILL/ (CI-CH) Silty CLAY; red brown, pale grey and brown; medium to high plasticity; trace ironstone gravel, rootlets		FILL	WC	=PL		A		0.2 0.4 0.5		
	1							A B		0.9 1.0		
	52 / 1.2	FILL/ (CI-CH) Silty CLAY; pale brown and red brown; medium to high plasticity; trace ironstone and siltstone gravel		FILL	WC	<PL		A		1.4 1.5		
	1.6	(CI-CH) Silty CLAY; red brown, mottled pale grey; medium to high plasticity; stiff		RES	ST	=PL						
	1.7	Test pit discontinued at 1.70m depth										
	2 / 51									2		
	3 / 50									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: PJ

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Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.1 AHD
COORDINATE E:297513.2 **N:** 6256134.5
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 20
PROJECT No: 207476.01
DATE: 08/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53	0.0	FILL/ (Cl) Silty CLAY; pale brown; medium plasticity; trace gravel, trace surficial vegetation		FILL	VC	<PL		A	0.1 - 0.2	0.1 0.2		
									A	0.4 - 0.5	0.4 0.5		
	52	0.8	FILL/ (Cl-CH) Silty CLAY; pale grey, red; medium to high plasticity		FILL	WC	<PL		A	0.9 - 1.0	0.9 1.0		
		1.3	(Cl-CH) Silty CLAY; pale red, pale grey; medium to high plasticity; very stiff to hard 1.6m: becoming hard below		RES	VST TO H	<PL		A	1.4 - 1.5	1.4 1.5		
	51	2.0	Test pit discontinued at 2.00m depth								2		
	50	3									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: RD

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Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 52.9 AHD
COORDINATE E:297546.6 **N:** 6256141.6
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 21
PROJECT No: 207476.01
DATE: 08/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed		0.0	FILL/ (CI) Silty CLAY; pale brown; medium plasticity; trace sand and gravel, trace surficial vegetation		FILL	MC	<PL		A		0.1 0.2		
		0.3	FILL/ (CI) Silty CLAY; pale grey, orange; medium plasticity; trace gravel		FILL	MC	<PL		A		0.4 0.5		
	52	1							A		0.9 1.0		
		1.1	FILL/ (CI) Silty CLAY; pale grey/brown; medium plasticity; trace ironstone gravel		FILL	WC	<PL						
		1.3	FILL/ (CI-CH) Silty CLAY; pale red, grey, brown; medium to high plasticity		FILL	WC	<PL		A		1.4 1.5		
	51	1.8	(CI-CH) Silty CLAY; orange, mottled grey; medium to high plasticity; stiff to very stiff		RES	ST TO VST	<PL		A		1.9		
		2.0	Test pit discontinued at 2.00m depth								2.0		
	50	3									3		
	49												

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: RD

EXPORTED 04/04/23 19:00. TEMPLATE ID: DP_101.02.00_SOILLOG

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.7 AHD
COORDINATE E:297347.2 **N:** 6256112.2
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 22
PROJECT No: 207476.01
DATE: 10/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	54.7 / 0.0	FILL/ (CI) Silty CLAY; light grey; medium plasticity; with ironstone gravel, trace surficial vegetation		FILL	VC	<PL		A B	0.1 0.2	0.1 0.2		
	54.4 / 0.3	(CH) Silty CLAY; light brown and orange; high plasticity; with ironstone gravel, stiff		RES	ST	=PL		A	0.4 0.5	0.4 0.5		
	54.1 / 0.6	Test pit discontinued at 0.60m depth										
	54 / 1									1		
	53 / 2									2		
	52 / 3									3		
	51											

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire

LOGGED: NW

EXPORTED 04/04/23 19:00. TEMPLATE ID: DP_101.02.00_SOILLOG

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.9 AHD
COORDINATE E:297392 **N:** 6256163.9
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 23
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*)	DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
No free groundwater observed		0.0	FILL/ (CI) Silty CLAY; light brown; medium plasticity; with ironstone gravel, trace surficial vegetation		FILL	WC		<PL		A		0.1		
												0.2		
		0.3	FILL/ (CI) Silty CLAY; light brown, mottled grey and red clay; medium plasticity; with ironstone gravel		FILL	WC		=PL		A		0.4		
										B		0.5		
		0.6	(CH) Silty CLAY; red and brown; high plasticity; trace organic material, with ironstone gravel, stiff		RES									
	53					ST		=PL		A		0.9		
		1.0	Test pit discontinued at 1.00m depth									1.0		
	52	2										2		
	51	3										3		
	50													

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: NW

EXPORTED 04/04/23 19:00. TEMPLATE ID: DP_101.02.00_SOILLOG

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.3 AHD
COORDINATE E:297460.4 **N:** 6256167.9
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 24
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53	0.0	FILL/ (CI) Silty CLAY; pale brown; medium plasticity; with ironstone gravel, siltstone gravel, and boulder, trace surficial vegetation		FILL	WC	<PL	*	A		0.1		
		0.2	FILL/ (CI) Silty CLAY; dark grey, red brown, brown and pale grey; medium plasticity; trace siltstone gravel						A		0.2		
											0.4		
					FILL	WC	=PL				0.5		
	52	1							A		0.9		
		1.4	(CH) Silty CLAY; red brown, mottled pale grey; high plasticity; trace ironstone gravel, stiff		RES	ST	=PL		B		1.0		
		1.5	Test pit discontinued at 1.50m depth										
	51	2									2		
	50	3									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS: *PACM 1

OPERATOR: A&A Hire

LOGGED: PJ

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Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.1 AHD
COORDINATE E:297508.6 **N:** 6256180.7
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 25
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53	0.0	FILL/ (Cl) Silty CLAY; light grey; medium plasticity; trace surficial vegetation		FILL	VC	<PL		A	0.1 0.2	0.1		
		0.3	FILL/ (Cl) Silty CLAY; red brown and mottled grey; medium plasticity; with ironstone gravel		FILL	WC	=PL		A	0.4 0.5	0.4		
	52	0.8	FILL/ (Cl) Silty CLAY; light brown; medium plasticity; trace organic matter		FILL	WC	<PL		A B	0.9 1.0	0.9		
		1.3	FILL/ (Cl) Silty CLAY; light brown and mottled grey; medium plasticity; with ironstone gravel		FILL	WC	<PL		A	1.4 1.5	1.4		
		1.6	FILL/ (CH) Silty CLAY; brown and mottled light grey; high plasticity; trace ironstone gravel		FILL	WC	<PL		A	1.9 2.0	1.9		
	51	2.05	(CH) Silty CLAY; dark brown and orange; high plasticity; with ironstone gravel, stiff		RES	ST	=PL		A	2.1 2.2	2.1		
		2.3	Test pit discontinued at 2.30m depth								3		
	50	3											

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: NW

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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.9 AHD
COORDINATE E:297391.6 **N:** 6256163.9
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 26
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed		0.0	FILL/ (CI) Silty CLAY; light brown; medium plasticity; with ironstone gravel, trace surficial vegetation		FILL	WC	<PL		A B		0.1 0.2		
		0.4	(CI) Silty CLAY; mottled pale grey, red clay; medium plasticity; with ironstone gravel, stiff		RES	ST	=PL		A		0.4		
		0.5	Test pit discontinued at 0.50m depth								0.5		
	53	1									1		
	52	2									2		
	51	3									3		
	50												

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: NW

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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.5 AHD
COORDINATE **E:**297416.4 **N:** 6256192.9
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 27
PROJECT No: 207476.01
DATE: 10/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE			TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	0.0 / 53	FILL/ (Cl) Silty CLAY; pale grey; medium plasticity; trace ironstone gravel, with gravel, trace surficial vegetation		FILL	VC	<PL		A	0.1–0.2	0.1–0.2		
	0.3	FILL/ (Cl) Silty CLAY; dark brown and mottled grey; medium plasticity; trace organic material, trace ironstone gravel		FILL	WC	=PL		A	0.4–0.5	0.4–0.5		
	0.6	FILL/ (Cl) Silty CLAY; dark brown and mottled grey; medium plasticity; trace gravel		FILL	WC	=PL		A B	0.9–1.0	0.9–1.0		
	1 / 1.1 / 52	FILL/ (CH) Silty CLAY; light brown, mottled grey; high plasticity; with ironstone gravel		FILL	PC	=PL		A	1.4–1.5	1.4–1.5		
	1.8 / 1.85	(CH) Silty CLAY; orange brown, mottled pale grey, red brown; high plasticity; with ironstone gravel, stiff		RES	ST	=PL						
	2 / 51	Test pit discontinued at 1.85m depth								2		
	3 / 50									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: NW

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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.3 AHD
COORDINATE **E:**297450.4 **N:** 6256204.4
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 28
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53 / 0.0	FILL/ (CI) Silty CLAY; pale brown; medium plasticity; trace ironstone and siltstone gravel, trace surficial vegetation		FILL	WC	<PL		A	0.1–0.2	0.1		
	0.25	FILL/ (CI) Silty CLAY; dark brown, red brown; medium plasticity; trace ironstone, igneous and siltstone gravel		FILL	WC	<PL		A	0.4–0.5	0.4		
	0.5	FILL/ (CH) Silty CLAY; pale grey, red brown and brown; high plasticity; trace ironstone and siltstone gravel		FILL	WC	=PL		B		0.5		
	52 / 1							A	0.9–1.0	0.9		
								A	1.4–1.5	1.4		
	1.6 / 1.65	(CH) Silty CLAY; pale grey, mottled red brown; high plasticity; with ironstone gravel, stiff to very stiff		RES	ST TO VST	=PL						
		Test pit discontinued at 1.65m depth										
	51 / 2									2		
	3									3		
	50											

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: PJ

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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.2 AHD
COORDINATE E:297487.6 **N:** 6256225.9
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 29
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53	0.0	FILL/ (CI) Silty CLAY; light brown; medium plasticity; trace ironstone gravel, trace surficial vegetation		FILL	VC	<PL	*	A B		0.1 0.2		
		0.4	(CH) Silty CLAY; light brown and orange; medium plasticity; stiff 0.7m: pale grey, mottled orange brown		RES	ST	=PL		A		0.4 0.5		
	52	0.8	Test pit discontinued at 0.80m depth										
		1									1		
	51	2									2		
	50	3									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS: *PACM 4

OPERATOR: A&A Hire

LOGGED: PJ

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Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.1 AHD
COORDINATE E:297491.4 **N:** 6256217.8
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 30
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53 / 0.0	FILL/ (CI) Silty CLAY; light brown; medium plasticity; trace ironstone gravel, trace surficial vegetation		FILL	VC	<PL		A B		0.1 0.2		
	0.25	(CH) Silty CLAY; mottled light grey and light brown; high plasticity; trace ironstone gravel, very stiff		RES	VST	=PL		A		0.3 0.4		
	0.45	Test pit discontinued at 0.45m depth										
	1 / 52									1		
	2 / 51									2		
	3 / 50									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: NW

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Refer to explanatory notes for symbol and abbreviation definitions

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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.2 AHD
COORDINATE E:297446.7 **N:** 6256231.2
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 31
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53 / 0.0	FILL/ (CI) Silty CLAY; pale brown, red brown and brown; medium plasticity; trace ironstone and siltstone gravel, trace surficial vegetation		FILL	WC	<PL		A B		0.1 0.2		
	0.25	(CH) Silty CLAY; brown mottled grey; high plasticity; trace ironstone gravel, stiff		RES	ST	=PL		A		0.4 0.5		
	0.6	Test pit discontinued at 0.60m depth										
	52 / 1									1		
	51 / 2									2		
	50 / 3									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: PJ

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Douglas Partners
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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.4 AHD
COORDINATE E:297467.1 **N:** 6256259.3
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 32
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53	0.0	FILL/ (CI) Silty CLAY; pale brown, red brown, dark brown; medium plasticity; trace ironstone gravel, igneous gravel and timber, trace surficial vegetation		FILL	VC	<PL		A		0.1 0.2		
									A		0.4 0.5		
		1							A		0.9 1.0		
	52	1.2	FILL/ (CI) Silty SAND; dark brown; medium plasticity; with sand, trace rootlets, igneous gravel		FILL	WC	M		A		1.4 1.5		
		1.7	FILL/ (CH) Silty CLAY; red brown, brown, pale grey; high plasticity; trace ironstone and siltstone gravel		FILL	WC	=PL		A		1.9 2.0		
		2											
		2.1	FILL/ (CH) Sandy SILT; dark brown; high plasticity; fine sand, slight sulfuric odour, stiff		FILL	ST	=PL		A		2.1		
	51	2.2	Test pit discontinued at 2.20m depth								2.2		
		3									3		
	50												

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: PJ

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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53 AHD
COORDINATE **E:**297509.6 **N:** 6256256.2
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 33
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED									SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed		0.0	FILL/ (CI) Silty CLAY; pale brown; medium plasticity; trace ironstone gravel, trace gravel, trace surficial vegetation		FILL	VC	<PL		A		0.1 0.2		
		0.3	FILL/ (CH) Silty CLAY; brown, mottled pale orange; high plasticity		FILL	WC	<PL		A		0.4 0.5		
		0.7	FILL/ (CI-CH) Silty CLAY; brown, mottled grey; medium to high plasticity; trace organic matter		FILL	WC	<PL		A B		0.9 1.0		
	52	1											
		1.1	(CI-CH) Silty CLAY; grey, mottled orange; medium to high plasticity		RES	WC	<PL		A		1.2 1.3		
		1.4	Test pit discontinued at 1.40m depth										
	51	2									2		
	50	3									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire

LOGGED: AFH

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Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.2 AHD
COORDINATE E:297497.7 **N:** 6256243
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 33A
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
No free groundwater observed	53	0.0	FILL/ (CI) Silty CLAY; pale brown; medium plasticity; trace surficial vegetation		FILL	VC	<PL		A	0.1 - 0.2	0.1		
		0.3	FILL/ (CI-CH) Silty CLAY; brown, mottled orange; medium to high plasticity		FILL	WC	<PL		A	0.4 - 0.5	0.4		
		0.7	FILL/ (CI-CH) Silty CLAY; dark brown, mottled orange; medium to high plasticity; trace organic material		FILL	WC	<PL	*	A	0.9 - 1.0	0.9		
	52	1									1		
		1.8	(CI-CH) Silty CLAY; dark brown, mottled grey, orange; medium to high plasticity; very stiff		RES	VST	<PL		A	1.9 - 1.95	1.9		
	51	2.0	Test pit discontinued at 2.00m depth								2		
	50	3									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS: *PACM 5

OPERATOR: A&A Hire

LOGGED: AFH

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Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.3 AHD
COORDINATE E:297488.9 **N:** 6256266.4
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 34
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53 / 0.0	FILL/ (CI-CH) Silty CLAY; brown; medium to high plasticity; trace surficial vegetation		FILL	VC	<PL		A		0.1		
	0.2	FILL/ (CI-CH) Silty CLAY; brown, mottled grey; medium to high plasticity; trace concrete fragments		FILL	WC	<PL		A		0.2 0.4 0.5		
	0.7	FILL/ (CI-CH) Silty CLAY; mottled grey; medium to high plasticity; trace concrete fragments		FILL	WC	<PL		A B		0.9 1.0		
	52 / 1.2	(CI-CH) Silty CLAY; orange, mottled grey; medium to high plasticity; very stiff		RES	VST	<PL		A		1.3 1.4		
	1.5	Test pit discontinued at 1.50m depth										
	51 / 2									2		
	3									3		
	50											

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: AFH

EXPORTED 04/04/23 19:01. TEMPLATE ID: DP_101.02.00_SOILLOG

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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.2 AHD
COORDINATE E:297493.4 **N:** 6256293.9
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 35
PROJECT No: 207476.01
DATE: 09/03/23
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	53 / 0.0	FILL/ (Cl) Silty CLAY; pale grey; medium plasticity; trace gravel, trace surficial vegetation		FILL	VC	<PL		A	0.1 - 0.2	0.1 0.2		
	0.3	FILL/ (Cl-CH) Silty CLAY; pale grey; medium to high plasticity; with gravel		FILL	WC	<PL	*	A	0.4 - 0.5	0.4 0.5		
	0.7	FILL/ (Cl-CH) Silty CLAY; pale brown, mottled grey; medium to high plasticity		FILL	WC	<PL		A B	0.9 - 1.0	0.9 1.0		
	52 / 1.1	(Cl-CH) Silty CLAY; pale brown, mottled grey; medium to high plasticity; very stiff		RES	VST	<PL		A	1.4	1.4		
	1.5	Test pit discontinued at 1.50m depth								1.5		
	2 / 51									2		
	3 / 50									3		

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS: *PACM 6

OPERATOR: A&A Hire
LOGGED: AFH

EXPORTED 04/04/23 19:01. TEMPLATE ID: DP_101.02.00_SOILLOG

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Extracted From DP (2023a)

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.4 AHD
COORDINATE E:297386.1 **N:** 6256101
DATUM/GRID: MGA94 Zone 56

LOCATION ID: 36
PROJECT No: 207476.01
DATE: 10/03/23
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) / DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
No free groundwater observed	54	0.0	FILL/ (Cl) Silty CLAY; pale brown; medium plasticity; trace ironstone gravel, trace surficial vegetation		FILL	VC	<PL		A		0.1		
		0.2	FILL/ (Cl-CH) Silty CLAY; pale grey, mottled orange; medium to high plasticity		FILL	WC	<PL		A		0.2 0.3		
		0.5	FILL/ (Cl) Silty CLAY; brown; medium plasticity		FILL	WC	<PL		A B		0.4 0.5		
		0.8	FILL/ (Cl-CH) Silty CLAY; pale grey, mottled orange; medium to high plasticity		FILL	WC	<PL		A		0.9		
		1									1.0		
	53	1.3	(Cl-CH) Silty CLAY; brown, trace ironstone gravel gravel; medium to high plasticity; trace ironstone gravel, stiff		RES	ST	<PL		A		1.5		
		1.7	Test pit discontinued at 1.70m depth								1.6		
		2									2		
	52												
		3									3		
	51												

NOTES: (#)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 3 Tonne Excavator
METHOD: 600mm bucket
REMARKS:

OPERATOR: A&A Hire
LOGGED: AFH

EXPORTED 04/04/23 19:01. TEMPLATE ID: DP_101.02.00_SOILLOG

Refer to explanatory notes for symbol and abbreviation definitions

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Appendix C3

Drawing, Logs and Summary Results Table Extracted from DP (2023b)

Extracted From DP (2023b)





LOCALITY MAP

Notes:
1. Drawing projection GDA94 / MGA zone 56
2. Latest available aerial imagery sourced from metromap.com accessed 23/06/2023
3. Boundaries and test locations shown are approximate only

Legend

- Site Boundary
- Test Pit

Previous Areas of Note

- Northern Bund
- Possible Previous Building
- Test Pit (Environmental - March 2023)
- Test Pit (Geotechnical - October 2021)
- Surface ACM Fragment (JKE - February 2023)

0 40 80 120 160 m

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CLIENT:		TITLE:	**Test Location Plan - Previous Areas of Note**
OFFICE: Sydney	DRAWN BY: HD		
SCALE: 1:2400 @ A3	DATE: 11.12.2023		**78 Lockwood Road, Erskine Park**

N

PROJECT No:	207476.04
DRAWING No:	2
REVISION:	0

Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.1 AHD
EASTING: 297360.7
NORTHING: 6256155.6

PIT No: 101
PROJECT No: 207476.02
DATE: 21/6/2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
55	0	FILL/Silty Sandy CLAY: medium to high plasticity, dark brown to brown, trace igneous gravel, timber and rootlets, w<PL		E	0.0		PID <1 ppm		
					0.1				
				E	0.5		PID <1 ppm		
					0.6				
	0.7	FILL/Silty CLAY: high plasticity, dark grey to grey, trace igneous gravel, w~PL							
54	1			E	1.0		PID <1 ppm		1
					1.1				
				E	1.5		PID <1 ppm		
					1.6				
	1.8	Silty CLAY: medium to high plasticity, red-brown mottled grey, w~PL, alluvial							
53	2			E	2.0		PID <1 ppm		2
					2.1				
				E*	2.5		PID <1 ppm		
	2.6	Pit discontinued at 2.6m Target depth achieved			2.6				
52	3								3

5 10 15 20

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Replicate sample BD7/20230621 taken from 2.5-2.6m depth.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.0 AHD
EASTING: 297416.6
NORTHING: 6256211.6

PIT No: 102
PROJECT No: 207476.02
DATE: 21-6-2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
54		FILL/Silty Sandy CLAY: medium to high plasticity, dark brown and brown, trace igneous gravel, timber, plastic fragments and rootlets, w~PL		E	0.0		PID <1 ppm		
					0.1				
				E	0.5		PID <1 ppm		
					0.6				
	0.9								
53	1	FILL/Silty CLAY: high plasticity, dark grey to grey, trace igneous gravel and rootlets, w~PL		E	1.0		PID <1 ppm		1
					1.1				
52	2			E	2.0		PID <1 ppm		2
					2.1				
51	3			E	3.0		PID<1 ppm		3
					3.1				
				E	3.3		PID <1 ppm		
	3.4				3.4				
		Pit discontinued at 3.4m Extent of excavator reach							

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.6 AHD
EASTING: 297459.9
NORTHING: 6256272.2

PIT No: 103
PROJECT No: 207476.02
DATE: 21/6/2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
53	0	FILL/Silty Sandy CLAY: medium to high plasticity, dark brown to brown, trace igneous gravel, timber, wire fragments and rootlets, w~PL		E	0.0		PID <1 ppm		5 10 15 20
					0.1				
				E	0.5		PID <1 ppm		
					0.6				
	0.9								
	1	FILL/Silty CLAY: high plasticity, dark grey and grey, trace igneous gravel and rootlets, w~PL		E	1.0		PID <1 ppm		1
					1.1				
52									
	2			E	2.0		PID <1 ppm		2
					2.1				
51									
	3			E	3.0		PID <1 ppm		3
					3.1				
	3.3	Pit discontinued at 3.3m Extent of excavator reach							
50									

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.3 AHD
EASTING: 297492.3
NORTHING: 6256252

PIT No: 104
PROJECT No: 207476.02
DATE: 21/6/2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
									5 10 15 20
	0.0			E	0.0		PID <1 ppm		
53	0.1	FILL/Silty CLAY: low to medium plasticity, pale brown to brown, with sand, trace igneous and ironstone gravel and rootlets, w<PL			0.1				
		FILL/Silty CLAY: medium to high plasticity, red-brown and brown, trace igneous and ironstone gravel, w<PL							
				E	0.5		PID <1 ppm		
					0.6				
	0.9								
52	1	Silty CLAY: high plasticity, pale orange-brown mottled grey, w~PL, alluvial		E	1.0		PID <1 ppm		1
					1.1				
				E*	1.4		PID <1 ppm		
					1.5				
	1.6	Pit discontinued at 1.6m Target depth achieved							
51	2								2
50	3								3

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Replicate sample BD5/20230621 taken from 1.4-1.5m depth.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.3 AHD
EASTING: 297437.7
NORTHING: 6256198.6

PIT No: 105
PROJECT No: 207476.02
DATE: 21/6/2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
53	0.0	FILL/Silty CLAY: low to medium plasticity, pale brown and brown, with sand, trace igneous and ironstone gravel and rootlets, w<PL		E	0.0		PID <1 ppm		
					0.1				
	0.3	FILL/Silty CLAY: high plasticity, dark brown, brown and dark grey, trace ironstone gravel and plastic fragments, w~PL							
				E	0.5		PID <1 ppm		
					0.6				
	0.7	FILL/Silty Sandy CLAY: medium to high plasticity, dark brown and red-brown mottled pale grey, fine to medium sand, trace igneous and ironstone gravel, w~PL							
	1			E	1.0		PID <1 ppm		1
					1.1				
52	1.3	Silty CLAY: medium to high plasticity, pale grey mottled red-brown, with ironstone gravel, w~PL, alluvial		E	1.3		PID <1 ppm		
					1.4				
				E*	1.8		PID <1 ppm		
	1.9	Pit discontinued at 1.9m			1.9				
	2	Target depth achieved							2
51									
	3								3
50									

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Replicate sample BD6/20230621 taken from 1.8-1.9m depth.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.4 AHD
EASTING: 297430.5
NORTHING: 6256164.9

PIT No: 106
PROJECT No: 207476.02
DATE: 21/6/2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
53	0.0	FILL/Silty CLAY: low to medium plasticity, pale brown and brown, with sand, trace igneous gravel, timber and rootlets, w<PL		E	0.0		PID <1 ppm		
					0.1				
	0.2	FILL/Silty CLAY: medium to high plasticity,dark brown, red-brown and pale grey, trace igneous and ironstone, w~PL							
				E	0.5		PID <1 ppm		
					0.6				
	1								1
				E	1.0		PID <1 ppm		
					1.1				
52	1.2	FILL/Silty CLAY: medium to high plasticity, pale grey mottled orange-brown and red-brown, trace ironstone gravel, w<PL							
	2			E	2.0		PID <1 ppm		2
					2.1				
51	2.3	Silty CLAY: medium to high plasticity, red-brown mottled pale grey and pale brown, trace igneous and ironstone gravel, w~PL, alluvial							
				E	2.9		PID <1 ppm		
	3								3
50	3.0	Pit discontinued at 3.0m Target depth achieved			3.0				

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.5 AHD
EASTING: 297395.6
NORTHING: 6256052.8

PIT No: 107
PROJECT No: 207476.02
DATE: 21/6/2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
									5 10 15 20
		FILL/Silty CLAY: low to medium plasticity, pale brown and brown, with sand, trace igneous and ironstone gravel and rootlets, w<PL		E	0.0		PID <1 ppm		
	0.2				0.1				
		FILL/Silty CLAY: medium to high plasticity, brown and red-brown, trace ironstone gravel, w<PL							
54				E	0.5		PID <1 ppm		
					0.6				
	1								1
				E	1.0		PID <1 ppm		
					1.1				
53		Below 1.5m: red-brown mottled pale grey and dark brown							
	1.9								
		FILL/Silty SAND: fine to medium, dark grey to grey, trace rootlets and roots, moist, possibly buried (former) topsoil layer		E	2.0		PID <1 ppm		
	2								2
	2.1				2.1				
		Silty CLAY: medium to high plasticity, red-brown, trace ironstone gravel, w~PL, alluvial		E	2.2		PID <1 ppm		
					2.3				
52				E*	2.5		PID <1 ppm		
	2.6				2.6				
		Pit discontinued at 2.6m Target depth achieved							
	3								3
51									

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Replicate sample BD4/20230621 taken from 2.5-2.6m depth.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Geotechnics / Environment / Groundwater

Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.1 AHD
EASTING: 297407.8
NORTHING: 6255979

PIT No: 108
PROJECT No: 207476.02
DATE: 21/6/2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
55	0	FILL/Silty CLAY: medium to high plasticity, brown, pale brown and red-brown, with sand, trace sandstone, igneous and ironstone gravel and rootlets, w<PL		E	0.0		PID <1 ppm		
					0.1				
	0.3	FILL/Silty CLAY: medium to high plasticity, red-brown and brown and pale grey, trace igneous and ironstone gravel, w<PL		E	0.5		PID <1 ppm		
					0.6				
		Below 0.8m: pale grey mottled red-brown							
54	1			E	1.0		PID <1 ppm		1
					1.1				
				E	1.4		PID <1 ppm		
	1.5	Silty CLAY: medium to high plasticity, red-brown, trace ironstone gravel, w~PL, alluvial		E	1.5		PID <1 ppm		
					1.6				
	2			E*	2.0		PID <1 ppm		2
53	2.1	Pit discontinued at 2.1m Target depth achieved			2.1				
	3								3
52									

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Replicate sample BD1/20230621 taken from 2.0-2.1m depth.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.6 AHD
EASTING: 297468.4
NORTHING: 6255990.3

PIT No: 109
PROJECT No: 207476.02
DATE: 21/6/2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
54	0.0	FILL/Silty CLAY: low to medium plasticity, pale brown with brown, with sand, trace igneous and ironstone gravel, plastic fragments and rootlets, w<PL		E	0.0–0.1		PID <1 ppm		
	0.3	FILL/Silty CLAY: medium to high plasticity, red-brown, pale brown and dark brown, with sand, trace timber, igneous and ironstone gravel, apparently firm to stiff, w~PL		E	0.5–0.6		PID <1 ppm		
53	1	Below 0.9m: dark brown and red-brown mottled pale grey		E	1.0–1.1		PID <1 ppm		1
				E	1.5–1.6		PID <1 ppm		
52	2			E	2.0–2.1		PID <1 ppm		2
	2.6	FILL/Silty SAND: fine to medium, pale grey to grey, trace ironstone gravel and rootlets, moist, possibly buried (former) topsoil layer		E	2.9		PID <1 ppm		
51	3	3.0 Pit discontinued at 3.0m Extent of excavator reach			3.0				3

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

Douglas Partners
Geotechnics / Environment / Groundwater

Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.6 AHD
EASTING: 297479.9
NORTHING: 6256087.8

PIT No: 110
PROJECT No: 207476.02
DATE: 21/6/2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
									5 10 15 20
		FILL/Silty CLAY: medium to high plasticity, brown and red-brown, with sand, trace sandstone, igneous and ironstone gravel and rootlets, w<PL		E	0.0		PID <1 ppm		
	0.15				0.1				
		FILL/Silty CLAY: medium to high plasticity, red-brown and brown, trace igneous and ironstone gravel, wire, timber, plastic fragments and rootlets, w<PL							
				E	0.5		PID <1 ppm		
53		Below 0.6m: no anthropogenic inclusions			0.6				
	1			E	1.0		PID <1 ppm		1
					1.1				
52		Below 1.9m: with pale brown sand							
	2			E	2.0		PID <1 ppm		2
					2.1				
51		Below 2.6m: pale grey mottled orange-brown and dark brown							
				E*	2.9		PID <1 ppm		
	3 3.0	Pit discontinued at 3.0m Extent of excavator reach			3.0				3
50									

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Replicate sample BD3/20230621 taken from 2.9-3.0m depth.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.0 AHD
EASTING: 297520.6
NORTHING: 6256153.6

PIT No: 111
PROJECT No: 207476.02
DATE: 21/6/2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
53	0.0	FILL/Silty CLAY: medium to high plasticity, pale brown and brown, with sand, trace igneous and ironstone gravel and rootlets, w<PL		E	0.0		PID <1 ppm		
	0.15	FILL/Silty CLAY: medium to high plasticity, red-brown and pale grey, trace igneous and ironstone gravel, w<PL			0.1				
				E	0.5		PID <1 ppm		
					0.6				
52	1			E	1.0		PID <1 ppm		1
					1.1				
	1.6	FILL/Silty SAND: fine to medium, grey, trace rootlets and roots, moist, possibly buried (former) topsoil layer		E	1.6		PID <1 ppm		
	1.8	Silty CLAY: medium to high plasticity, red-brown, trace ironstone gravel, w~PL, alluvial			1.7				
51	2			E	2.0		PID <1 ppm		2
					2.1				
				E	2.4		PID <1 ppm		
	2.5	Pit discontinued at 2.5m Target depth achieved			2.5				
50	3								3

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.5 AHD
EASTING: 297557
NORTHING: 6256046.4

PIT No: 112
PROJECT No: 207476.02
DATE: 21/6/2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
									5 10 15 20
		FILL/Silty CLAY: low to medium plasticity, pale brown and red-brown, with sand, trace sandstone, igneous and ironstone gravel and rootlets, w<PL		E	0.0		PID <1 ppm		
					0.1				
	0.3	FILL/Silty CLAY: medium to high plasticity, pale grey, brown and red-brown, trace ironstone gravel, wire and rootlets, w~PL							
53				E	0.5		PID <1 ppm		
					0.6				
	1			E	1.0		PID <1 ppm		1
					1.1				
52									
	1.7	FILL/Silty SAND: fine to medium, grey, trace ironstone gravel and rootlets, moist, possibly buried (former) topsoil layer		E	1.8		PID <1 ppm		
	1.9	Silty CLAY: medium to high plasticity, red-brown, with ironstone gravel, w~PL, alluvial			1.9				
	2			E	2.0		PID <1 ppm		2
					2.1				
				E*	2.4		PID <1 ppm		
51	2.5	Pit discontinued at 2.5m Target depth achieved			2.5				
	3								3
50									

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Replicate sample BD2/20230621 taken from 2.4-2.5m depth.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Extracted From DP (2023b)

TEST PIT LOG

CLIENT:
PROJECT: Due Diligence Contamination Investigation
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.1 AHD
EASTING: 297596
NORTHING: 6256125.9

PIT No: 113
PROJECT No: 207476.02
DATE: 21/6/2023
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm)
53	0.15	FILL/Silty CLAY: low to medium plasticity, brown and red-brown, with sand, trace igneous and ironstone gravel, PVC pipe fragments and rootlets, w<PL		E	0.0 0.1		PID <1 ppm		
		FILL/Silty CLAY: medium to high plasticity, red-brown, brown and pale grey, with sand, trace igneous and ironstone gravel and rootlets, apparently firm to stiff, w<PL Below 0.3m: no rootlets		E	0.5 0.6		PID <1 ppm		
52	1			E	1.0 1.1		PID <1 ppm		1
		Below 1.5m: red-brown and brown							
51	2			E	2.0 2.1		PID <1 ppm		2
	2.7	FILL/Silty SAND: fine to medium, grey, trace igneous gravel, roots and rootlets, moist, possibly buried (former) topsoil layer		E	2.7 2.8		PID <1 ppm		
	2.9	Silty CLAY: medium to high plasticity, red-brown and		E	2.9		PID <1 ppm		
50	3 3.0	brown, trace ironstone gravel, w~PL, alluvial Pit discontinued at 3.0m Extent of excavator reach			3.0				3

RIG: 4 tonne excavator with 450mm toothed bucket

LOGGED: PJ

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U_x	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	▼	Water level	V	Shear vane (kPa)

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Table F1: Summary of Soil Laboratory Results

				Metals								BTEX										TRH										PAH							PFAS				Asbestos		Parameters	
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Benzene	Ethylbenzene	Toluene	C6 - C9	Xylene (m & p)	Xylene (o)	Xylene Total	C6-C10 less BTEX (F1)	C6-C10	Naphthalene	C10-C16	C16-C34	C34-C40	C10 - C16 (F2) less Naphthalene	C10 - C14	C15 - C28	C29-C36	C10 - C40 (Sum of total +ve)	Benzo(a) pyrene	Benzo(a) pyrene - TCLP	Benzo(a)pyrene TEQ calc (PQL)	Total +ve PAHs	Total +ve PAHs - TCLP	Total OCP	Total OPP	Total +ve PCB	Total Phenols	PFOS	PFHxS	Sum PFOS and PFHxS	PFOA	Asbestos ID	Asbestos FA/AF	pH	Cation Exchange Capacity
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	g/kg	%w/w	units	meq/100g
PQL				4	0.4	1	1	1	0.1	1	1	0.2	1	0.5	25	2	1	1	25	25	1	50	100	100	50	50	100	100	50	0.05	0.05	0.5	0.05	0.05	-	-	0.1	5	0.1	0.1	0.1	0.1	0.1	0.001	0.1	0.1
Site Assessment Criteria																																														
NEPC 2013 HILs Comm/Ind D and HSL D Direct Contact				3000	900	3600	240,000	1500	730	6000	400,000	430	27,000	99,000				81,000	26,000		11,000		27,000	38,000	20,000							40	4000	4000			7				20*	50*		0.001		0.001
NEPC 2013 Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m												3	NL	NL				230	260		NL				NL																				
NEPC 2013 Comm/Ind - Management Limits, Coarse Soil																				700		1000	3500	10000																						
Field ID	**Sample Depth**	**Sample Date**	**Matrix**																																										
TP101	0-0.1	21-06-23	Fill	9	<0.4	22	15	20	0.2	7	21	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	0.1	<0.1	0.1	<0.1	<0.1	<0.001	6.3	12
TP101	1-1.1	21-06-23	Fill	7	<0.4	17	7	18	<0.1	4	12	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	0.1	<0.1	0.1	<0.1	<0.1	<0.001	-	-
TP101	2-2.1	21-06-23	Natural	<4	<0.4	11	15	12	<0.1	11	25	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	6.8	22
TP102	0-0.1	21-06-23	Fill	9	<0.4	16	15	14	<0.1	5	22	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP102	0.5-0.6	21-06-23	Fill	6	<0.4	17	10	17	<0.1	6	16	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP102	1-1.1	21-06-23	Fill	10	<0.4	39	8	18	<0.1	5	16	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	-	-	-	-	<0.1	<0.001	-	-
TP102	3-3.1	21-06-23	Fill	4	<0.4	11	10	26	<0.1	5	20	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP103	0-0.1	21-06-23	Fill	8	<0.4	21	9	17	<0.1	5	16	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	-	-	-	-	<0.1	<0.001	-	-
TP103	2-2.1	21-06-23	Fill	9	<0.4	25	11	18	<0.1	5	17	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP104	0-0.1	21-06-23	Fill	8	<0.4	20	8	14	<0.1	3	12	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP104	0.5-0.6	21-06-23	Fill	<4	<0.4	7	7	12	<0.1	1	7	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	-	-	-	-	<0.1	<0.001	-	-
TP104	1.4-1.5	21-06-23	Natural	4	<0.4	10	16	19	<0.1	8	29	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
BD5/20230621^	1.4-1.5	21-06-23	Natural	7	<1	14	25	18	<0.1	16	45	<0.2	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<10	<10	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
TP105	0-0.1	21-06-23	Fill	<4	<0.4	11	16	12	<0.1	8	20	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	-	-
TP105	0.5-0.6	21-06-23	Fill	6	<0.4	7	11	11	<0.1	2	10	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP105	1-1.1	21-06-23	Fill	<4	<0.4	7	21	23	<0.1	<1	8	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP105	1.3-1.4	21-06-23	Natural	12	<0.4	4	12	24	<0.1	<1	5	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-
TP105	1.8-1.9	21-06-23	Natural	5	<0.4	2	5	9	<0.1	<1	2	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
BD6/20230621~	1.8-1.9	21-06-23	Natural	12	<0.4	3	8	8	<0.1	<1	3	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
TP106	0-0.1	21-06-23	Fill	4	<0.4	14	18	13	<0.1	8	22	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	7.7	18
TP106	0.5-0.6	21-06-23	Fill	5	<0.4	13	13	14	<0.1	4	18	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	7	12
TP106	2-2.1	21-06-23	Fill	4	<0.4	2	5	10	<0.1	<1	4	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP107	0-0.1	21-06-23	Fill	6	<0.4	15	14	13	<0.1	4	15	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	5	12
TP107	1-1.1	21-06-23	Fill	8	<0.4	9	16	13	<0.1	7	24	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	1	<0.001	<0.5	14	<LRL	<LRL	<LRL	<0.1	<5	-	-	-	-	<0.1	<0.001	8.6	25
TP107	2-2.1	21-06-23	Fill	6	<0.4	19	9	19	<0.1	7	9	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	7.2	5.5
TP107	2.5-2.6	21-06-23	Natural	8	<0.4	22	13	13	<0.1	3	7	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
BD4/20230621^	2.5-2.6	21-06-23	Natural	12	<1	32	16	19	<0.1	7	13	<0.2	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<10	<10	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
TP108	0-0.1	21-06-23	Fill	9	<0.4	9	12	15	<0.1	4	16	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	-	-	-	-	<0.1	<0.001	-	-
TP108	0.5-0.6	21-06-23	Fill	8	<0.4	6	10	12	<0.1	3	11	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP108	1.4-1.5	21-06-23	Fill	6	<0.4	8	12	11	<0.1	6	21	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP108	2-2.1	21-06-23	Natural	7	<0.4	18	6	12	<0.1	3	6	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
BD1/20230621~	2-2.1	21-06-23	Natural	6	<0.4	19	5	14	<0.1	2	5	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
TP109	0-0.1	21-06-23	Fill	9	<0.4	12	10	13	<0.1	2	10	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP109	1-1.1	21-06-23	Fill	6	<0.4	13	5	9	<0.1	<1	3	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	-	-	-	-	<0.1	<0.001	-	-
TP109	2.9-3	21-06-23	Fill	6	<0.4	13	8	15	<0.1	5	11	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	-	-	-	-	<0.1	<0.001	-	-
TP110	0-0.1	21-06-23	Fill	9	<0.4	10	11	13	<0.1	5	18	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	-	-
TP110	0.5-0.6	21-06-23	Fill	8	<0.4	12	14	14	<0.1	5	17	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	-	-
TP110	2-2.1	21-06-23	Fill	6	<0.4	16	5	15	<0.1	3	6	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.001	-	-
TP110	2.9-3	21-06-23	Fill	13	<0.4	9	22	12	<0.1	23	73	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
BD3/20230621~	2.9-3	21-06-23	Fill	10	<0.4	7	16	10	<0.1	9	34	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
TP111	0-0.1	21-06-23	Fill	6	<0.4	13	20	21	<0.1	7	36	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP111	1-1.1	21-06-23	Fill	9	<0.4	11	11	9	<0.1	1	6	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	-	-	-	-	<0.1	<0.001	-	-
TP111	1.6-1.7	21-06-23	Fill	6	<0.4	14	14	13	<0.1	6	15	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP112	0-0.1	21-06-23	Fill	4	<0.4	5	9	10	<0.1	3	12	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	5.4	15
TP112	0.5-0.6	21-06-23	Fill	8	<0.4	21	5	13	<0.1	1	4	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	-	-	-	-	<0.1	<0.001	5.2	11
TP112	1-1.1	21-06-23	Fill	7	<0.4	5	7	9	<0.1	<1	4	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP112	1.8-1.9	21-06-23	Fill	8	<0.4	11	17	18	<0.1	9	33	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	-	-	-	-	<0.1	<0.001	5.6	13
TP112	2-2.1	21-06-23	Natural	6	<0.4	15	16	11	<0.1	8	19	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	6.1	17
TP112	2.4-2.5	21-06-23	Natural	8	<0.4	15	17	29	<0.1	9	24	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
BD2/20230621^	2.4-2.5	21-06-23	Natural	7	<1	18	19	15	<0.1	10	26	<0.2	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<10	<10	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
TP113	0-0.1	21-06-23	Fill	11	<0.4	18	15	15	<0.1	2	11	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	-	-	-	-	<0.1	<0.001	-	-
TP113	0.5-0.6	21-06-23	Fill	8	<0.4	6	7	12	<0.1	1	6	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP113	2-2.1	21-06-23	Fill	8	<0.4	15	13	9	<0.1	2	6	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	<0.1	<0.001	-	-
TP113	2.7-2.8	21-06-23	Fill	5	<0.4	14	5	12	<0.1	3	6	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	<LRL	<LRL	<0.1	<5	-	-	-	-	<0.1	<0.001	-	-
TP113	2.9-3.0	Natual	Natual	<4	<0.4	15	10	10	<0.1	6	14	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	<50	<100	<100	<50	<50	<100	<100	<50	<0.05	-	<0.5	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-
Trip Spike	-	21-06-23	Soil	-	-	-	-	-	-	-	-	86%	88%	88%	-	88%	87%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trip Blank	-	21-06-23	Soil	-	-	-	-	-	-	-	-	<0.2	<1	<0.5	<25	<2	<1	<1	<25	<25	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes

NL	Non-limiting
LRL	Laboratory Reporting Limit
~	Intra-laboratory analysis
^	Inter-laboratory analysis
*	HEPA (2020) commercial/indusrial land use.

Appendix D

Historical Title Deeds

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Summary of Owners Report

Address: - 78 Lockwood Road, Erskine Park, NSW 2759

Description: - Lot 101 D.P. 1268632

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

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
17.09.1898 (1898 to 1945)	William Morphett (Farmer) (Also known as William Henry Morphett) (And his deceased estate)	Book 629 No. 709
15.01.1945 (1945 to 1958)	Frederick John Morphett (Railway Employee) (Executor of the Will of William Henry Morphett) (And his deceased estate)	Book 1956 No. 378
06.02.1958 (1958 to 1959)	Gladys Ruby Morphett (Widow) (Executrix of the Will of Frederick John Morphett)	Book 2437 No. 323
24.12.1959 (1959 to 1979)	Ray Fitzpatrick Pty. Limited.	Book 2510 No. 956 Now Volume 13552 Folio 152
24.10.1979 (1979 to 2021)	Fitzpatrick Investments Pty. Limited. (Also styled Fitzpatrick Investments Pty Ltd)	Volume 13552 Folio 152 Then Intervening Titles Not Investigated Now 101/1268632

As regards to the parts numbered 2 on attached Cadastral Records Enquiry Report: - Road

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
	This parcel of land previously formed part of Lenore Lane, which was provided for in a subdivision pre-1900. These parts were claimed by possessory title – See Primary Application No. 82576.	
19.03.2009 (2009 to 2021)	Fitzpatrick Investments Pty. Limited. (Also styled Fitzpatrick Investments Pty Ltd)	1/1132214 Then Intervening Titles Not Investigated Now 101/1268632

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

As regards to the parts numbered 3 on attached Cadastral Records Enquiry Report: -

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
20.01.1920 (1920 to 1945)	Oswald Ernest Morphett (Labourer or Farmer)	Book 1174 No. 596
01.08.1945 (1945 to 1959)	Norris Frederick Morphett (Railway Employee)	Book 1967 No. 594
24.12.1959 (1959 to 1979)	Ray Fitzpatrick Pty. Limited.	Book 2510 No. 955 Now Volume 13552 Folio 151
24.10.1979 (1979 to 2021)	Fitzpatrick Investments Pty. Limited. (Also styled Fitzpatrick Investments Pty Ltd)	Volume 13552 Folio 151 Then Intervening Titles Not Investigated Now 101/1268632

As regards to the parts numbered 4 on attached Cadastral Records Enquiry Report: -

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
17.11.1922 (1922 to 1945)	Johanna Watkins (Widow) (And her deceased estate) Martha Abb Elbra (Widow) (And her deceased estate) Alice Maud Nixon (Married Woman now Widow) Robert Beach Watkins (Laborer now Well Sinker) Albert Arthur Watkins (Painter) John Wilkinson (Hairdresser now Railway Employee) Ethel Adelaide Watkins (Nurse now Married Woman) (Now Ethel Adelaide Madden) Neta Albina Watkins (Spinster now Married Woman) (Now Neta Albina Cloonan) (Devisees of the Will of James Thomas Watkins)	Book 1283 No. 136 (Acknowledgement)
15.09.1945 (1945 to 1945)	Donald Henry Waterhouse (Carrier)	Book 1972 No. 336
03.11.1945 (1945 to 1953)	Francis James Nicholson (Farmer)	Book 1972 No. 950
05.12.1953 (1953 to 1958)	William John Douglas Shennan (Sawyer) (And his deceased estate)	Book 2280 No. 382
07.01.1958 (1958 to 1970)	Jacqueline Fitzpatrick (Spinster now Married Woman) (Now Jacquelyn Isobel Waterhouse) Rae Fitzpatrick (Spinster now Married Woman) (Now Rae Edwina Cottle)	Book 2433 No. 346
01.06.1970 (1970 to 1979)	Ray Fitzpatrick Pty. Limited.	Book 2972 No. 494 Now Volume 13552 Folio 148
24.10.1979 (1979 to 2021)	Fitzpatrick Investments Pty. Limited. (Also styled Fitzpatrick Investments Pty Ltd)	Volume 13552 Folio 148 Then Intervening Titles Not Investigated Now 101/1268632

ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0412 199 304)

Level 14, 135 King Street, Sydney
Sydney 2000
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Continued as to the whole of the land: -

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
25.06.2021 (2021 to 2024)	Digital Erskine Park 4 LLC	101/1268632
02.04.2024 (2024 to Date)	# LPAC AU SUBCO Pty Ltd	101/1268632

 # Denotes current registered proprietor

Leases, as to the whole (Excluding Premises): - NIL

Easements, as to the whole: -

- 20.10.2004 (AB35355): Easement for overhead power line(s) 35 metre(s) wide affecting the part(s) shown so burdened in the title diagram.
- 21.04.2021 (AQ889589): Easement for underground cables 9 metre(s) wide and variable affecting the part(s) shown so burdened in the title diagram.
- 19.05.2021 (D.P. 1268632): Easement to drain water 8.8 metre(s) wide and variable width affecting the part(s) shown so burdened in the title diagram.
- 19.05.2021 (D.P. 1268632): Easement to drain water variable width referred to and numbered (3) in the s.88b instrument affecting the part(s) shown so burdened in the title diagram.
- 19.05.2021 (D.P. 1268632): Easement to drain water 3.5 metre(s) affecting the part(s) shown so burdened in the title diagram.
- 19.05.2021 (D.P. 1268632): Easement to drain water 3 metre(s) wide affecting the part(s) shown so burdened in the title diagram.
- 19.05.2021 (D.P. 1268632): Right of access variable width referred to and numbered (11) in the s.88b instrument affecting the part(s) shown so burdened in the title diagram.
- 19.05.2021 (D.P. 1268632): Right of access variable width referred to and numbered (13) in the s.88b instrument affecting the part(s) shown so burdened in the title diagram.

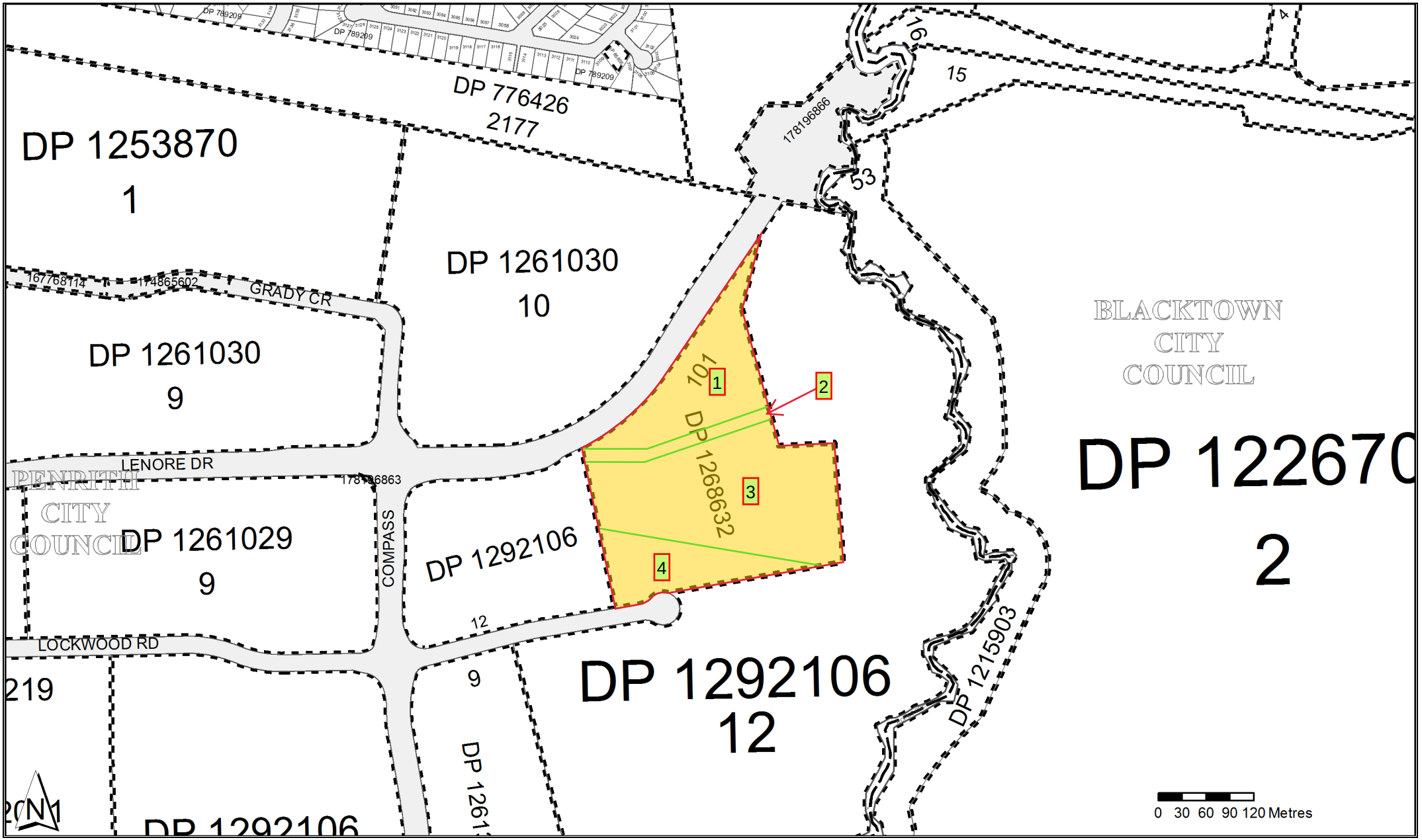
Yours Sincerely
Taylor Wilson
28th August 2024

LAND REGISTRY SERVICES

Cadastral Records Enquiry Report : Lot 101 DP 1268632

Ref : 78 Lockwood Road, Erskine Park

Locality : ERSKINE PARK
Parish : MELVILLE
LGA : PENRITH
County : CUMBERLAND



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

Req:R936248 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2024 09:01 /Seq:1 of 9
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ROPES CREEK BOUNDARY LINES

No.	BEARING	DISTANCE
5	187° 00′ 30″	18.49
6	186° 54′	17.345
7	169° 46′	17.725
8	163° 48′	1.105
9	165° 58′ 20″	22.69
10	134° 02′	15.395
11	41° 45′	13.63
12	78° 04′ 40″	11.095
13	131° 31′ 20″	12.235
14	120° 10′ 40″	16.535
15	189° 47′ 40″	18.02
16	157° 43′ 40″	17.135
17	114° 12′ 20″	29.255
18	116° 32′	32.855
19	133° 24′ 20″	21.24
20	177° 28′ 10″	29.845
21	183° 51′ 10″	16.025
22	200° 49′ 50″	39.585
23	125° 53′ 10″	18.98
24	145° 39′ 10″	19.06
25	208° 32′ 40″	12.5
26	220° 58′	14.405
27	231° 17′ 10″	20.775
28	234° 12′	24.935
29	202° 17′ 40″	11.515
30	169° 15′	10.6
31	142° 36′ 50″	59.96
32	122° 48′ 30″	32.475
33	163° 57′	19.005
34	141° 04′ 20″	18.63
35	69° 27′ 30″	27.12
36	184° 02′ 30″	16.775
37	215° 15′ 20″	32.605
38	217° 02′ 15″	10.33
39	200° 29′ 15″	21.515
40	225° 50′	28.56
41	252° 11′ 05″	46.915
42	232° 46′ 50″	10.89
43	174° 32′ 45″	11.295
44	144° 15′ 20″	29.655
45	113° 04′ 45″	13.86
46	205° 23′ 45″	21.2
47	263° 21′ 50″	8.555
48	241° 31′ 30″	55.58
49	246° 36′ 20″	27.5
50	157° 58′ 25″	21.71
51	174° 29′ 35″	30.065
52	220° 51′ 40″	28.68
53	188° 04′ 25″	16.16
54	207° 35′ 15″	17.02
55	140° 30′	12.95
56	180° 40′ 35″	21.025
57	242° 08′ 45″	21.995
58	284° 25′ 30″	9.27
59	234° 14′ 20″	12.16
60	213° 37′ 05″	19.375
61	234° 07′ 20″	20.295
62	192° 51′ 35″	17.66
63	240° 19′ 45″	12.94
64	202° 38′	10.53
65	160° 14′ 10″	25.905
66	136° 45′ 50″	25.335
67	171° 27′ 25″	23.595
68	199° 18′ 50″	15.145
69	230° 19′ 10″	14.48
70	251° 25′ 20″	21.91
71	233° 27′ 25″	14.255
72	201° 45′ 40″	18.725
73	180° 02′ 20″	20.94
74	201° 52′ 05″	8.03
75	167° 13′ 10″	10.19
76	126° 08′ 15″	9.355
77	75° 21′ 45″	15.815
78	150° 41′ 45″	5.51

ARC SCHEDULE

No.	CHORD BEARING	CHORD DISTANCE	ARC	RAD
81	100° 23′ 30″	63.82	64.26	157.965
82	100° 24′ 20″	63.815	64.26	157.65
84	130° 08′ 30″	25.755	26.68	29.1
85	168° 08′	24.595	24.765	60.5
86	174° 57′ 30″	43.135	43.19	252.5
87	182° 31′ 15″	236.3	238.175	547.5
88b	14° 35′ 25″	7.91	7.91	577.5
92	345° 42′ 40″	36.59	37.29	55.5
93	1° 51′	71.795	71.83	661.905

LINES TABLE

No.	BEARING	DISTANCE
1	101° 28′	36.15
3	101° 28′	35.875
4	99° 36′ 40″	46.37
79	262° 55′ 20″	27.94
80	264° 38′ 25″	1.22
83	103° 52′	18.185
88	194° 59′	51.855
88a	14° 59′	36.765
94	358° 44′ 20″	43.265

NEW EASEMENTS

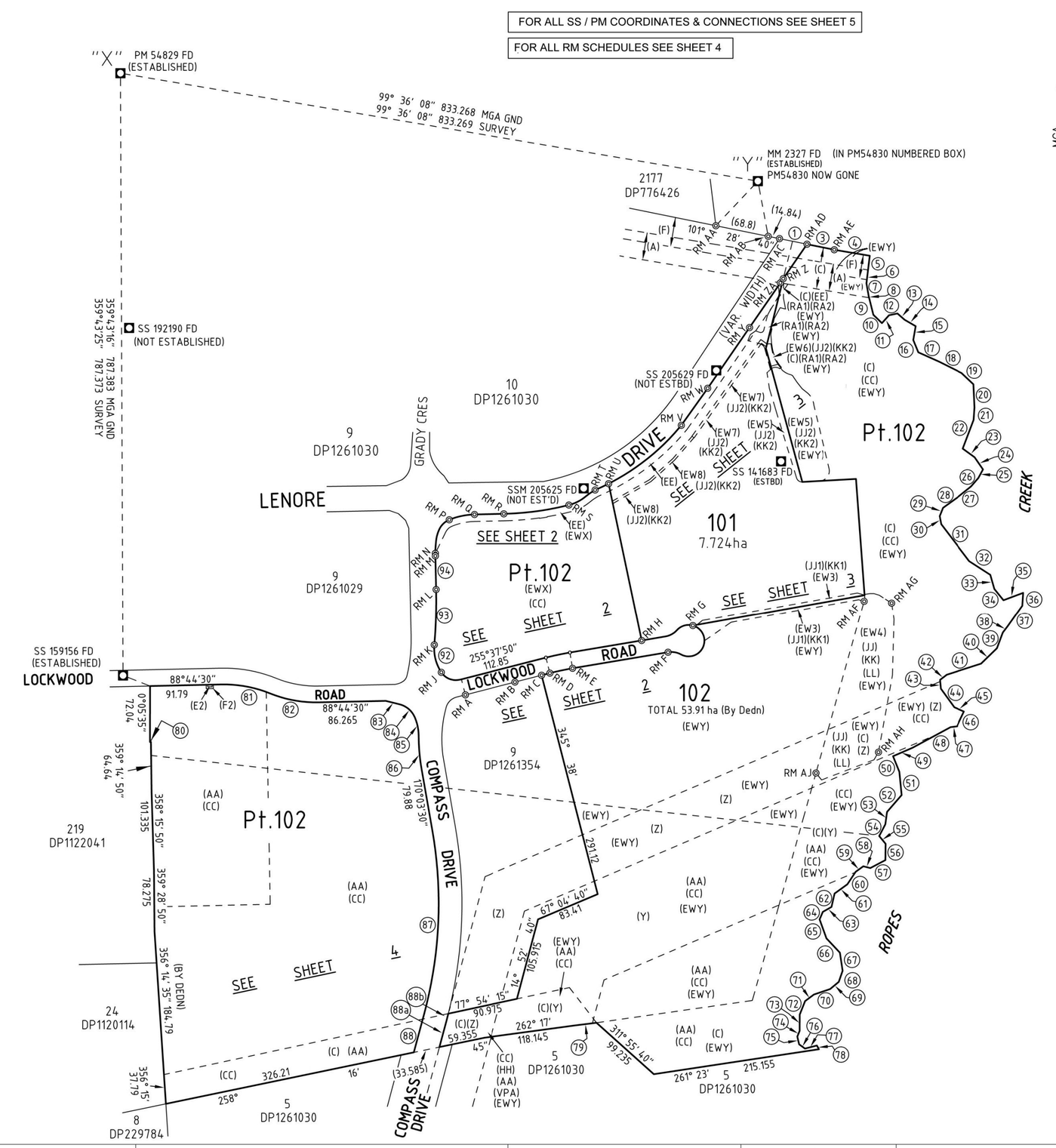
(EW3) EASEMENT TO DRAIN WATER 8.8 WIDE & VARIABLE WIDTH
(EW4) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.2)
(EW5) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.3)
(EW6) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.4)
(EW7) EASEMENT TO DRAIN WATER 3.5 WIDE
(EW8) EASEMENT TO DRAIN WATER 3 WIDE
(JJ1) RESTRICTION ON THE USE OF LAND (NO.7)
(KK1) POSITIVE COVENANT (NO.8)
(JJ2) RESTRICTION ON THE USE OF LAND (NO.9)
(KK2) POSITIVE COVENANT (NO.10)
(RA1) RIGHT OF ACCESS VARIABLE WIDTH (NO.11)
(RA2) RIGHT OF ACCESS VARIABLE WIDTH (NO.13)
(EWX) POSITIVE COVENANT(NO.12)
(EWY) RIGHT OF ACCESS VARIABLE WIDTH (NO.11)(NO.13)

EXISTING EASEMENTS

(A) EASEMENT FOR OVERHEAD POWERLINES 35 WIDE (AB35355)
(AA) LAND EXCLUDES MINERALS. SEE CROWN GRANT.
(C) RESTRICTION ON THE USE OF LAND (DP1112947)
(CC) RESERVATIONS AND CONDITIONS IN THE CROWN GRANTS.
(E2) EASEMENT FOR PADMOUNT SUBSTATION 5.5 WIDE (AI964433)
(EE) EASEMENT FOR UNDERGROUND CABLES 9 WIDE & VARIABLE WIDTH (AQ889589)
(F) EASEMENT FOR TRANSMISSION LINE (U399609)
(F2) RESTRICTION ON THE USE OF LAND (AI964431)(SITE)
(JJ) RESTRICTION ON THE USE OF LAND (DP1261354)(No.5)
(KK) POSITIVE COVENANT (DP1261354)(No.6)
(LL) EASEMENT TO DRAIN WATER VARIABLE WIDTH (DP1261354)
(Y) EASEMENT FOR TRANSMISSION LINE 121.92 WIDE (GOV. GAZ 16-10-64 - J924492)
(Z) EASEMENT FOR TRANSMISSION LINE 60.96 WIDE & VARIABLE WIDTH (DP1153614)

NOTATIONS

(EWX) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW5) (EW6) (EW7) (EW8)
(EWY) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW3) (EW4)



SURVEYOR: PETER ROBERT HOWIE Date of Survey: 24TH APRIL 2021 Surveyor's Ref: 10862.DP.002.D	PLAN OF SUBDIVISION OF LOT 1 IN DP1261030	L.G.A.: PENRITH Locality: ERSKINE PARK Reduction Ratio: 1:4000 Lengths are in metres.	Registered 19/05/2021	DP1268632

Req:R936248 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2024 09:01 /Seq:2 of 9
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NEW EASEMENTS

(EW3) EASEMENT TO DRAIN WATER 8.8 WIDE & VARIABLE WIDTH
(EW4) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.2)
(EW5) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.3)
(EW6) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.4)
(EW7) EASEMENT TO DRAIN WATER 3.5 WIDE
(EW8) EASEMENT TO DRAIN WATER 3 WIDE
(JJ1) RESTRICTION ON THE USE OF LAND (NO.7)
(KK1) POSITIVE COVENANT (NO.8)
(JJ2) RESTRICTION ON THE USE OF LAND (NO.9)
(KK2) POSITIVE COVENANT (NO.10)
(RA1) RIGHT OF ACCESS VARIABLE WIDTH (NO.11)
(RA2) RIGHT OF ACCESS VARIABLE WIDTH (NO.13)

EXISTING EASEMENTS

(A) EASEMENT FOR OVERHEAD POWERLINES 35 WIDE (AB35355)
(AA) LAND EXCLUDES MINERALS. SEE CROWN GRANT.
(C) RESTRICTION ON THE USE OF LAND (DP1112947)
(E2) EASEMENT FOR PADMOUNT SUBSTATION 5.5 WIDE (AI964433)
(EE) EASEMENT FOR UNDERGROUND CABLES 9 WIDE & VARIABLE WIDTH (AQ889589)
(F) EASEMENT FOR TRANSMISSION LINE (U399609)
(JJ) RESTRICTION ON THE USE OF LAND (DP1261354)(No.5)
(KK) POSITIVE COVENANT (DP1261354) (No.6)
(LL) EASEMENT TO DRAIN WATER VARIABLE WIDTH (DP1261354)
(Y) EASEMENT FOR TRANSMISSION LINE 121.92 WIDE (GOV. GAZ 16-10-64 - J924492)
(Z) EASEMENT FOR TRANSMISSION LINE 60.96 WIDE & VARIABLE WIDTH (DP1153614)

(EWX) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW5) (EW6) (EW7) (EW8)
(EWY) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW3) (EW4)

LENORE DRIVE
COMPASS DRIVE
GRADY CRESCENT (20 WIDE & VAR)
ROPES CREEK
LOCKWOOD ROAD
MGA SCIMS
Pt.102 (EWX)
9 DP1261030
10 DP1261030
9 DP1261029
9 DP1261354
101 7.724ha
Pt.102 (EWY)
Pt.102 (C)
SS 205629 FD (NOT ESTBD)
SS 205625 FD (NOT ESTBD)
SS 141683 FD (ESTABLISHED)
MM 2327 FD (ESTABLISHED) PM54830 NOW GONE (IN PM54830 NUMBERED BOX)
SEE DIAGRAM A ABOVE
SEE DIAGRAM B
SEE DIAGRAM C FOR E'MENTS (EW6) & (EW7)
SEE SHEET 3
SEE SHEET 4 FOR E'MENTS (RA1)&(RA2)
(30 WIDE & VAR)
(20.6 WIDE & VAR)

DIAGRAM A (NOT TO SCALE)

DIAGRAM B (NOT TO SCALE)

DIAGRAM C (NOT TO SCALE)

LINES TABLE		
No.	BEARING	DISTANCE
2a	101° 28′	(17.14)
2	101° 28′	(19.01)
3	101° 28′	35.875
4	99° 36′ 40″	46.37
89a	345° 37′ 50″	20.6
89b	345° 37′ 50″	20.6
94	358° 44′ 20″	43.265
99	88° 45′ 15″	38.265
102	52° 04′	7.71
107	80° 26′ 50″	30.98
111	350° 26′ 50″	20.6
115	230° 31′ 30″	19.085

SCHEDULE OF ARCS				
	CHORD			
No.	BEARING	DISTANCE	ARC	RAD
90	260° 13′ 20″	5.875	5.88	50
91	296° 27′ 40″	22.5	23.56	22.5
92	345° 42′ 40″	36.59	37.29	55.5
93	1° 51′	71.795	71.83	661.905
94a	(359° 24′ 50″)	(3.415)	(3.415)	145.5
95	2° 29′	18.99	19	145.5
96	15° 09′ 50″	15.545	15.605	50
97	45° 51′ 30″	18.16	18.6	24.5
98	78° 10′ 50″	33.21	33.4	90.5
100	82° 17′ 15″	84.54	84.72	375.34
101	63° 56′ 40″	22.435	22.595	54.5
103	57° 12′	8.26	8.27	45.5
104	64° 59′	19.905	19.91	293.68
105	51° 14′ 35″	120.125	120.98	293.68
106	78° 02′ 20″	31.595	31.605	375.93
108	61° 12′ 30″	16.97	17.295	25.75
109	73° 43′ 20″	21.365	22.5	20.3
110	78° 02′ 20″	29.865	29.87	355.33
112	99° 41′ 10″	16.97	17.29	25.75
113	22° 12′ 05″	40.32	68.54	20.3
114	221° 27′ 30″	66.935	67.1	275.5
116	241° 34′ 05″	82.105	82.43	267.285

FOR ALL RM SCHEDULES SEE SHEET 4

FOR ALL SS / PM COORDINATES & CONNECTIONS SEE SHEET 5

SURVEYOR: PETER ROBERT HOWIE
Date of Survey: 24TH APRIL 2021
Surveyor's Ref: 10862.DP.002.D

PLAN OF SUBDIVISION OF LOT 1 IN DP1261030

L.G.A.: PENRITH
Locality: ERSKINE PARK
Reduction Ratio: 1:1500
Lengths are in metres.

Registered 19/05/2021

DP1268632

Req:R936248 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2024 09:01 /Seq:3 of 9
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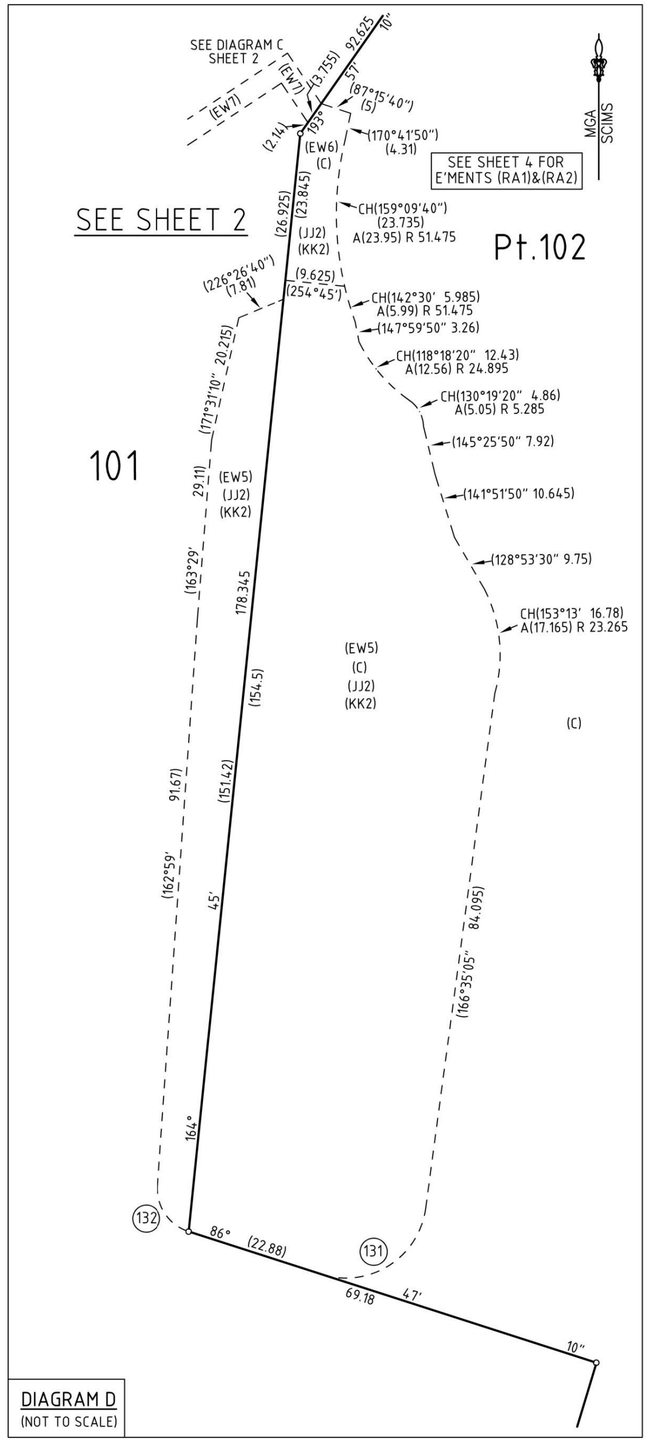


DIAGRAM D
(NOT TO SCALE)

LINES TABLE		
No.	BEARING	DISTANCE
118	(105° 39' 50")	(3.39)
119	(15° 38' 10")	(7.9)
120	(285° 39' 50")	(7.27)
120a	(285° 39' 50")	(2.32)
120b	(285° 39' 50")	(4.95)
121	(230° 40' 45")	(9.015)
122	(15° 38' 10")	(1.3)
123	(75° 59' 50")	(4.735)
124	(89° 05')	(5.54)
125	(107° 34' 20")	(7.3)
126	(122° 25' 20")	(19.01)
127	(171° 26' 10")	(21.065)
128	(210° 11' 40")	(11.49)
129	(320° 44' 40")	(11.835)
130	(175° 45' 40")	(2.26)

ARC SCHEDULE				
	CHORD			
No.	BEARING	DISTANCE	ARC	RAD
117	(142° 58' 20")	(24.715)	(26.57)	20.3
131	(215° 53')	(19.705)	(22.35)	13.025
132	(124° 49' 40")	(9.02)	(9.725)	7.3

NOTATIONS

(EWX) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW5) (EW6) (EW7) (EW8)

(EWY) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW3) (EW4)

(Z1): THE PART OF EASEMENT (LL), PART OF RESTRICTION ON THE USE OF LAND (JJ) & PART OF POSITIVE COVENANT (KK) TO BE RELEASED.

(Z2): THE PART OF EASEMENT (LL), PART OF RESTRICTION ON THE USE OF LAND (JJ) & PART OF POSITIVE COVENANT (KK) TO REMAIN.

'DIAGRAM 'G' & DIAGRAM 'H' ON SHEET 4 ALSO SHOW THE LOCATION OF (Z1) & (Z2).

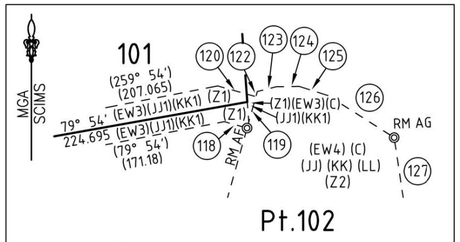


DIAGRAM F
(NOT TO SCALE)

SEE ALSO DIAGRAM G & DIAGRAM H ON SHEET 4

FOR ALL RM SCHEDULES SEE SHEET 4

FOR ALL SS / PM COORDINATES & CONNECTIONS SEE SHEET 5

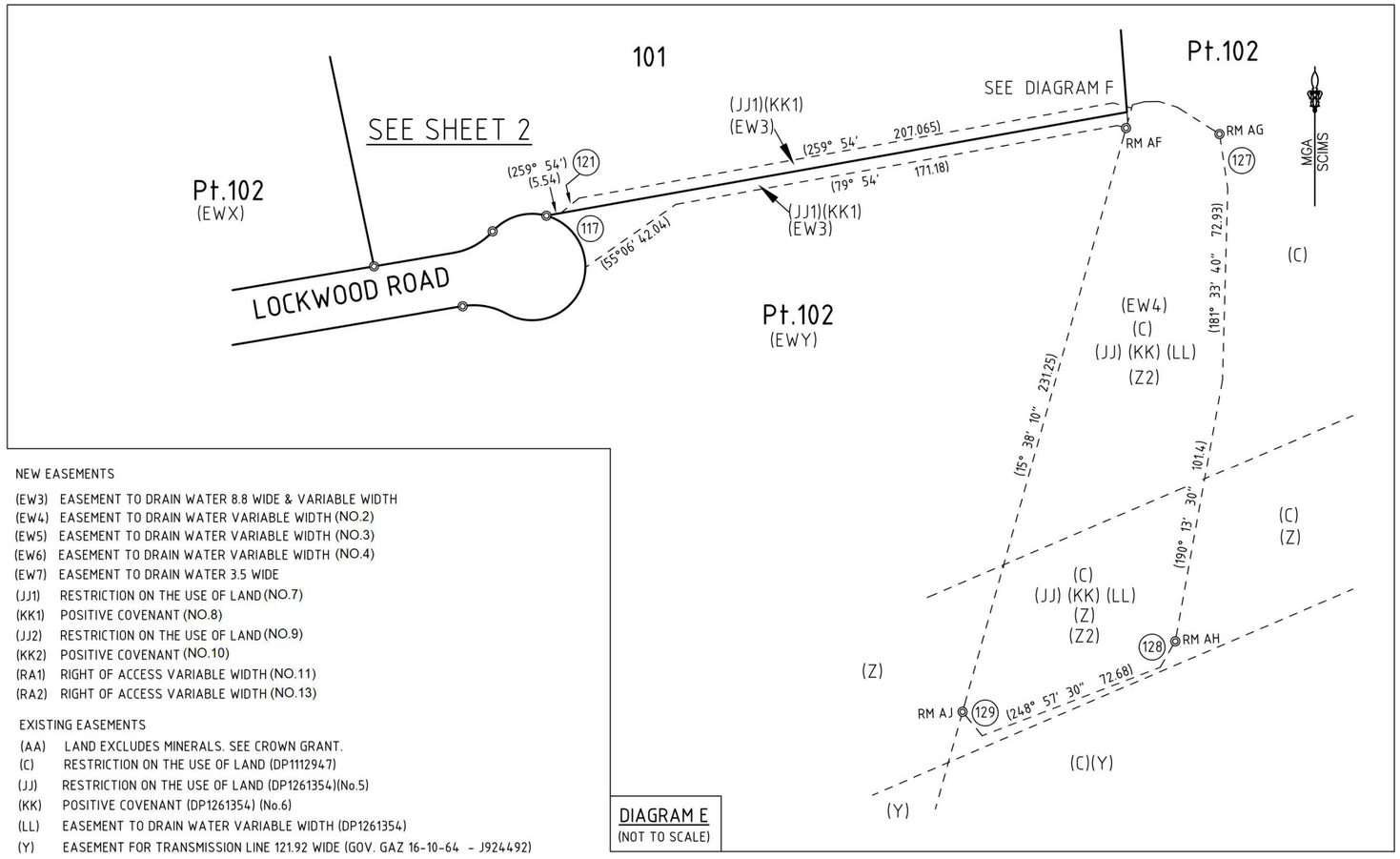


DIAGRAM E
(NOT TO SCALE)

NEW EASEMENTS

(EW3) EASEMENT TO DRAIN WATER 8.8 WIDE & VARIABLE WIDTH
(EW4) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.2)
(EW5) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.3)
(EW6) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.4)
(EW7) EASEMENT TO DRAIN WATER 3.5 WIDE
(JJ1) RESTRICTION ON THE USE OF LAND (NO.7)
(KK1) POSITIVE COVENANT (NO.8)
(JJ2) RESTRICTION ON THE USE OF LAND (NO.9)
(KK2) POSITIVE COVENANT (NO.10)
(RA1) RIGHT OF ACCESS VARIABLE WIDTH (NO.11)
(RA2) RIGHT OF ACCESS VARIABLE WIDTH (NO.13)

EXISTING EASEMENTS

(AA) LAND EXCLUDES MINERALS. SEE CROWN GRANT.
(C) RESTRICTION ON THE USE OF LAND (DP1112947)
(JJ) RESTRICTION ON THE USE OF LAND (DP1261354)(No.5)
(KK) POSITIVE COVENANT (DP1261354) (No.6)
(LL) EASEMENT TO DRAIN WATER VARIABLE WIDTH (DP1261354)
(Y) EASEMENT FOR TRANSMISSION LINE 121.92 WIDE (GOV. GAZ 16-10-64 - J924492)
(Z) EASEMENT FOR TRANSMISSION LINE 60.96 WIDE & VARIABLE WIDTH (DP1153614)

SURVEYOR: PETER ROBERT HOWIE Date of Survey: 24TH APRIL 2021 Surveyor's Ref: 10862.DP.002.D	PLAN OF SUBDIVISION OF LOT 1 IN DP1261030	L.G.A.: PENRITH Locality: ERSKINE PARK Reduction Ratio: 1:1500 Lengths are in metres.	Registered 19/05/2021	DP1268632

SCHEDULES OF REFERENCE MARKS

SCHEDULE OF REFERENCE MARKS A - W

RM	BEARING	DISTANCE	DESCRIPTION	ORIGIN
A	164°51'30"	3.535	RM DH&W FD	DP1261354
	159°38'10"	16.83	RM DH&W FD	DP1261354
B	190°51'30"	3.895	RM DH&W FD	DP1261354
	171°42'10"	16.835	RM DH&W FD	DP1261354
C	209°24'40"	4.87	RM DH&W FD	DP1261354
D	157°54'20"	3.53	RM DH&W FD	DP1261354
	170°29'30"	16.76	RM DH&W FD	DP1261354
E	95°26'40"	13.2	RM DH&W	PLACED
	135°07'30"	20.615	RM DH&W	PLACED
F	187°23'	3.72	RM DH&W	PLACED
	171°52'	16.89	RM DH&W	PLACED
G	35°38'	3.975	RM DH&W	PLACED
H	3°09'	3.72	RM DH&W	PLACED
	354°56'10"	16.96	RM DH&W	PLACED
J	38°53'	0.925	RM GIP FD	DP1261030
K	87°03'	1.005	RM GIP FD	DP1261030
L	83°37'	1.03	RM GIP FD	DP1261030
M	81°03'	1.065	RM GIP FD	DP1261030
N	180°47'	15.17	RM GIP FD	DP1270382
P	96°41'	16.57	RM DH&W FD	DP1261030
	100°03'	26.88	RM DH&W FD	DP1261030
Q	178°22'	8.4	RM DH&W FD	DP1261030
	177°46'	22.55	RM DH&W FD	DP1261030
R	177°46'	8.55	RM DH&W FD	DP1261030
	177°08'	22.71	RM DH&W FD	DP1261030
S	190°20'	10.805	RM SS205625 FD	BY DP1261030
T	74°51'50"	32.385	SS205625 FD	
				(CALC DP1270382 & SURVEY)
U	71°06'30"	52.095	SS205625	CONNECTION
	168°07'	0.625	RM GIP	PLACED
V	208°22'	28.85	RM DH&W FD	DP1270382
W	205°41'20"	25.56	RM SS205629 FD	DP1270382
Y	124°35'	0.52	RM GIP	PLACED
ZA	201°45'50"	2.05	RM GIP FD	DP1270382
Z	193°57'	0.83	RM GIP	PLACED

SCHEDULE OF REFERENCE MARKS BA - BX

RM	BEARING	DISTANCE	DESCRIPTION	ORIGIN
AA	277°27'	0.47	RM GIP FD	DP 595535
	222°35'	3.85	RM CB FD	REF. BY DP1132214 & SURVEY PLACED BY DP647320
AB	115°42'40"	0.965	RM GIP FD	DP 1157476
AC	RM GONE (DP1157476) DH&W'S FD AT CNR			
	23°39'	2.715	RM DH&W FD	DP1261354
	236°44'	6.495	RM DH&W FD	DP1261354
AD	101°01'30"	3.035	RM GIP FD	DP 1157476
AE	194°49'40"	0.765	RM GIP FD	DP 1157476
AF	65°20'	2.0	RM GIP FD	DP1261354
AG	171°26'	2.0	RM GIP FD	DP1261354
AH	280°13'30"	2.0	RM GIP FD	DP1261354
AJ	105°38'10"	2.0	RM GIP FD	DP1261354

NEW EASEMENTS

(EW3) EASEMENT TO DRAIN WATER 8.8 WIDE & VARIABLE WIDTH
(EW4) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.2)
(JJ1) RESTRICTION ON THE USE OF LAND (NO.7)
(KK1) POSITIVE COVENANT (NO.8)
(RA1) RIGHT OF ACCESS VARIABLE WIDTH (NO.11)
(RA2) RIGHT OF ACCESS VARIABLE WIDTH (NO.13)

EXISTING EASEMENTS

(C) RESTRICTION ON THE USE OF LAND (DP1112947)
(EE) EASEMENT FOR UNDERGROUND CABLES 9 WIDE & VARIABLE WIDTH (AQ889589)
(JJ) RESTRICTION ON THE USE OF LAND (DP1261354)(No.5)
(KK) POSITIVE COVENANT (DP1261354) (No.6)
(LL) EASEMENT TO DRAIN WATER VARIABLE WIDTH (DP1261354)

NOTATIONS

(EWY) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW3) (EW4)
(Z1): THE PART OF EASEMENT (LL), PART OF RESTRICTION ON THE USE OF LAND (JJ) & PART OF POSITIVE COVENANT (KK) TO BE RELEASED.
(Z2): THE PART OF EASEMENT (LL), PART OF RESTRICTION ON THE USE OF LAND (JJ) & PART OF POSITIVE COVENANT (KK) TO REMAIN.

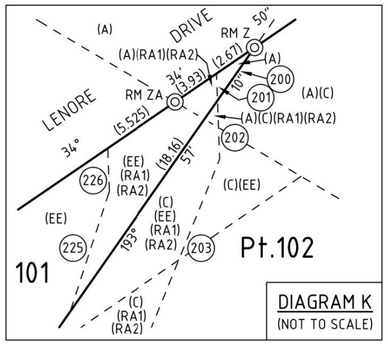


DIAGRAM K
(NOT TO SCALE)

LINES TABLE

No.	BEARING	DISTANCE
200	(193° 57' 10")	(3.74)
201	(156° 48' 20")	(1.555)
202	(156° 48' 20")	(3.615)
203	(181° 00' 10")	(17.91)
204	(169° 05' 40")	(14.545)
205	(283° 57' 10")	(7.17)
206	(208° 35' 10")	(15.75)
207	(192° 26')	(19.41)
209	(174° 41')	(10.56)
210	(170° 42' 10")	(4.31)

LINES TABLE

No.	BEARING	DISTANCE
212	(229° 10')	(2.545)
215	(344° 42')	(27.94)
217	(284° 09' 40")	(16.18)
218	(22° 35' 30")	(8.61)
219	(55° 08' 10")	(8.245)
220	(109° 40' 40")	(5.605)
222	(13° 53' 50")	(16.67)
224	(30°26'30")	(25.86)
225	(356°59'50")	(8.595)
226	(336°48'20")	(2.925)

ARC SCHEDULE

No.	CHORD BEARING	CHORD DISTANCE	ARC	RAD
208	(183°33'30")	(3.085)	(3.1)	10
211	(155°49'40")	(28.945)	(29.355)	50.475
213	(271°19'20")	(10.955)	(11.685)	9.455
214	(231°03')	(1.61)	(1.61)	9.455
216	(314°25'50")	(8.57)	(8.98)	8.5
221	(61°47'10")	(5.935)	(6.685)	4
223	(22°10'10")	(7.195)	(7.22)	25

FOR ALL RM SCHEDULES SEE THIS SHEET

FOR ALL SS / PM COORDINATES & CONNECTIONS SEE SHEET 5

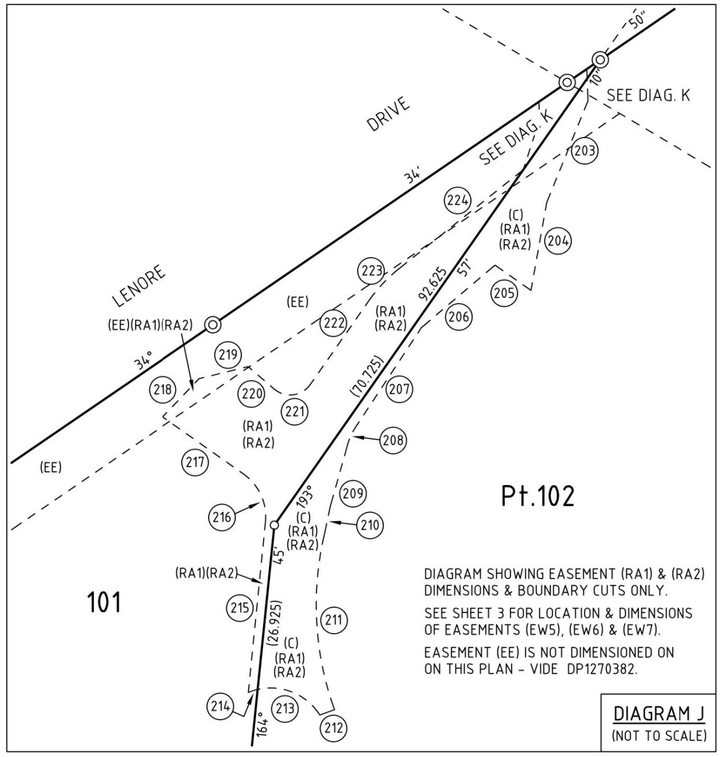


DIAGRAM SHOWING EASEMENT (RA1) & (RA2) DIMENSIONS & BOUNDARY CUTS ONLY.

SEE SHEET 3 FOR LOCATION & DIMENSIONS OF EASEMENTS (EW5), (EW6) & (EW7).

EASEMENT (EE) IS NOT DIMENSIONED ON ON THIS PLAN - VIDE DP1270382.

DIAGRAM J
(NOT TO SCALE)

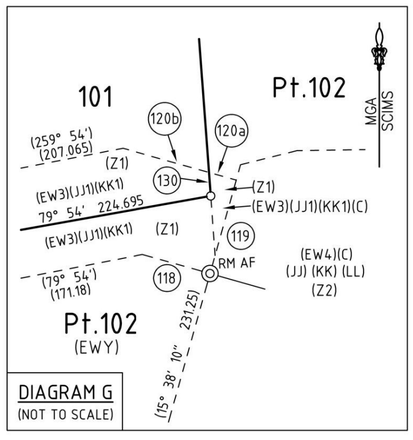
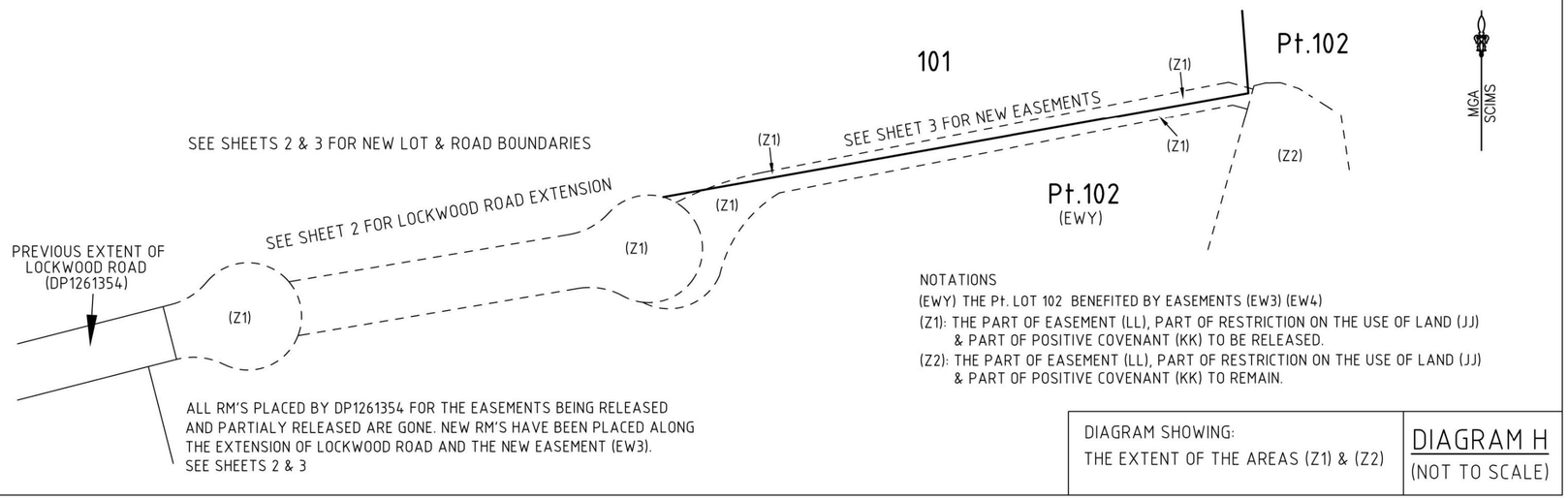


DIAGRAM G
(NOT TO SCALE)



NOTATIONS

(EWY) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW3) (EW4)
(Z1): THE PART OF EASEMENT (LL), PART OF RESTRICTION ON THE USE OF LAND (JJ) & PART OF POSITIVE COVENANT (KK) TO BE RELEASED.
(Z2): THE PART OF EASEMENT (LL), PART OF RESTRICTION ON THE USE OF LAND (JJ) & PART OF POSITIVE COVENANT (KK) TO REMAIN.

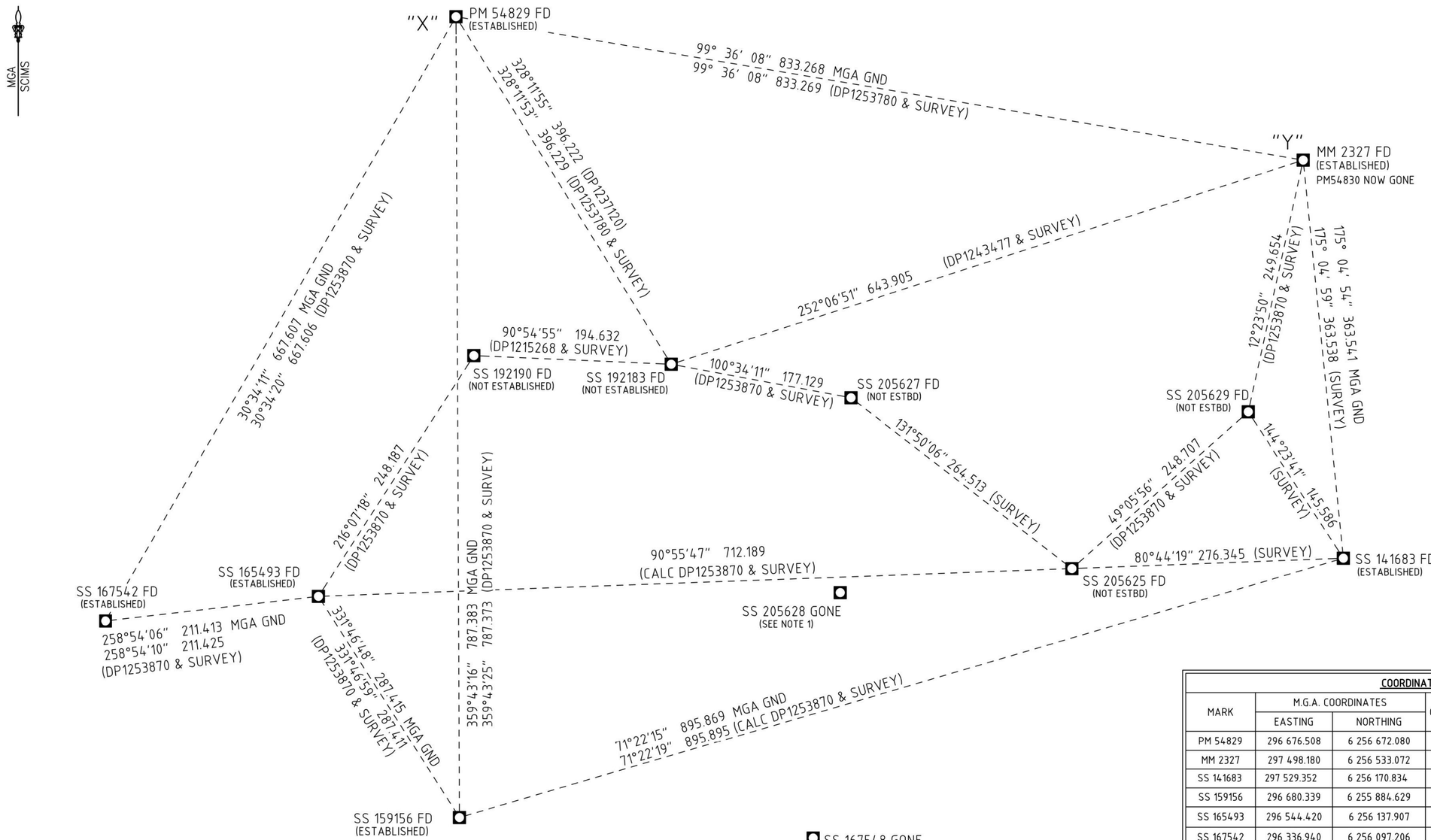
DIAGRAM SHOWING:
THE EXTENT OF THE AREAS (Z1) & (Z2)

DIAGRAM H
(NOT TO SCALE)

SURVEYOR: PETER ROBERT HOWIE Date of Survey: 24TH APRIL 2021 Surveyor's Ref: 10862.DP.002.D	PLAN OF SUBDIVISION OF LOT 1 IN DP1261030	L.G.A.: PENRITH Locality: ERSKINE PARK Reduction Ratio: 1:1500 Lengths are in metres.	Registered 19/05/2021	DP1268632

Req:R936248 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2024 09:01 /Seq:4 of 9
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Req:R936248 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2024 09:01 /Seq:5 of 9
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COORDINATE SCHEDULE

MARK	M.G.A. COORDINATES		CLASS	PU	METHOD	STATE
	EASTING	NORTHING				
PM 54829	296 676.508	6 256 672.080	B	N/A	FROM SCIMS	FOUND
MM 2327	297 498.180	6 256 533.072	B	N/A	FROM SCIMS	FOUND IN PM54830 BOX
SS 141683	297 529.352	6 256 170.834	C	N/A	FROM SCIMS	FOUND
SS 159156	296 680.339	6 255 884.629	C	N/A	FROM SCIMS	FOUND
SS 165493	296 544.420	6 256 137.907	C	N/A	FROM SCIMS	FOUND
SS 167542	296 336.940	6 256 097.206	C	N/A	FROM SCIMS	FOUND
SS 192183	296 885	6 256 335	U	N/A	TRAVERSE	FOUND
SS 192190	296 691	6 256 338	U	N/A	FROM SCIMS	FOUND
SS 205625	297 257	6 256 126	U	N/A	TRAVERSE	FOUND
SS 205627	297 059	6 256 303	U	N/A	TRAVERSE	FOUND
SS 205629	297 445	6 256 289	U	N/A	TRAVERSE	FOUND

DATE OF SCIMS COORDINATES: 28-02-2021 MGA ZONE 56 MGA DATUM: MGA2020
COMBINED SCALE FACTOR: 1.000097

NOTE 1: SS167548 & SS205628 GONE DUE TO COMPASS DRIVE CONSTRUCTION BY PERSONS UNKNOWN

SURVEYOR: PETER ROBERT HOWIE Date of Survey: 24TH APRIL 2021 Surveyor's Ref: 10862.DP.002.D	PLAN OF SUBDIVISION OF LOT 1 IN DP1261030	L.G.A.: PENRITH Locality: ERSKINE PARK Reduction Ratio: 1:1500 Lengths are in metres.	Registered 19/05/2021	DP1268632

Req:R936248 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2
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PLAN FORM 6 (2017)	**DEPOSITED PLAN ADMINISTRATION SHEET**	Sheet 1 of 4 sheet(s)

Office Use Only

Registered: 19/05/2021

Title System: TORRENS

Office Use Only

DP1268632

PLAN OF SUBDIVISION OF
LOT 1 IN DP1261030

LGA: PENRITH

Locality: ERSKINE PARK

Parish: MELVILLE

County: CUMBERLAND

Survey Certificate

I, PETER ROBERT HOWIE.....

of ICD ASIA PACIFIC, Level 2,21 Solent Circuit,

Baulkham Hills, NSW 2153 Ph: 02 8882 2700, Mob: 0427 565 566

a surveyor registered under the *Surveying and Spatial Information Act 2002*, certify that:

~~*(a) The land shown in the plan was surveyed in accordance with the *Surveying and Spatial Information Regulation 2017*, is accurate and the survey was completed on ....., or~~

~~*(b)~~ The part of the land shown in the plan (*being Lot 101, the extension of Lockwood Road and easements) was surveyed in accordance with the *Surveying and Spatial Information Regulation 2017*, the part surveyed is accurate and the survey was completed on 24TH APRIL 2021, the part not surveyed was compiled in accordance with that Regulation, ~~or~~

~~*(c) The land shown in this plan was compiled in accordance with the *Surveying and Spatial Information Regulation 2017*.~~

Datum Line: 'X' (PM54829) – 'Y' (MM2327)

Type: *Urban/~~*Rural~~

The terrain is *Level-Undulating ~~/ *Steep-Mountainous.~~

Signature: Peter Howie Dated: 24.04.2021

Surveyor Identification No: 257
Surveyor registered under
the *Surveying and Spatial Information Act 2002*
*Strike out inappropriate words.
**Specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey.

Crown Lands NSW/Western Lands Office Approval

I, ... (Authorised Officer) in approving this plan certify that all necessary approvals in regard to the allocation of the land shown herein have been given.

Signature: .....

Date: .....

File Number: .....

Office: .....

Subdivision Certificate

I, Gavin Cherry .....

Authorised Person/~~General Manager/*Accredited Certifier~~, certify that the provisions of s.109J of the *Environmental Planning and Assessment Act 1979* have been satisfied in relation to the proposed subdivision, new road or reserve set out herein.

Signature: ..... Electronic signature affixed by me, or at my direction,on 11/05/2021

~~Accreditation number~~: .....

Consent Authority: Penrith City Council

Date of endorsement: 11/05/2021

Subdivision Certificate number: SC21/0014

File number: N/A

*Strike through if inapplicable.

Plans used in the preparation of survey/~~compilation~~.

DP776426, DP647320, DP838541, DP1070730, DP1080305,DP1087837, DP1094504, DP1100120, DP1112947, DP1122041,DP1132214, DP1139394, DP1143935, DP1144264, DP1147778, DP1146476, DP1150138, DP1150141, DP1153614 DP1157476, DP1152072, DP1168407, DP1186190, DP1191081 DP1203393, DP1203886, DP1215268, DP1237120, DP1243477, DP1248791, DP1253870, DP1261030, DP1261354, DP1270382

Statements of intention to dedicate public roads, create public reserves and drainage reserves, acquire/resume land.

IT IS INTENDED TO DEDICATE THE EXTENSION OF LOCKWOOD ROAD TO THE PUBLIC AS PUBLIC ROAD.

Surveyor's Reference: 10862.DP.002.D

Signatures, Seals and Section 88B Statements should appear on PLAN FORM 6A

Req:R936248 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2
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PLAN FORM 6A (2017) **DEPOSITED PLAN ADMINISTRATION SHEET** Sheet 2 of 4 sheet(s)

Office Use Only

Registered: 19/05/2021

Office Use Only

DP1268632

PLAN OF SUBDIVISION OF
LOT 1 IN DP1261030

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses - See 60(c) *SSI Regulation 2017*
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Subdivision Certificate number: SC21/0014

Date of Endorsement: 11/05/2021

PURSUANT TO SECTION 88B OF THE CONVEYANCING ACT 1919, AS AMENDED, IT IS INTENDED:

TO CREATE:

1. Easement to Drain Water 8.8 wide & variable width (EW3)
2. Easement to Drain Water variable width (EW4)
3. Easement to Drain Water variable width (EW5)
4. Easement to Drain Water variable width (EW6)
5. Easement to Drain Water 3.5 wide (EW7)
6. Easement to Drain Water 3 wide (EW8)
7. Restriction on the Use of Land (JJ1)
8. Positive Covenant (KK1)
9. Restriction on the Use of Land (JJ2)
10. Positive Covenant (KK2)
11. Right of Access Variable Width (RA1)
12. Positive Covenant
13. Right of Access Variable Width (RA2)

TO RELEASE:

1. Easement for Services variable width created by DP1261354 and denoted (ES1) in DP1261354.
2. Right of Carriageway variable width created by DP1261354 and denoted (RW1) in DP1261354.
3. Part of Easement to Drain Water variable width created by DP1261354 and denoted (LL) in DP1261354.

Table showing addresses:

Lot	Street Number	Street Name	Street Type
101		Lockwood	Road
102		Lockwood	Road

If space is insufficient use additional annexure sheet

Surveyor's Reference: 10862.DP.002.D

Req:R936248 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2
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PLAN FORM 6A (2017) **DEPOSITED PLAN ADMINISTRATION SHEET** Sheet 3 of 4 sheet(s)

Office Use Only

Registered: 19/05/2021

Office Use Only

DP1268632

PLAN OF SUBDIVISION OF
LOT 1 IN DP1261030

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses - See 60(c) *SSI Regulation 2017*
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Subdivision Certificate number: SC21/0014

Date of Endorsement: 11/05/2021

Penrith City Council by its authorised)
Delegate pursuant to ~~s.377~~ of the s378)
Local Government Act 1993)

Electronic signature affixed by me, or at my direction,on 11/05/2021

Signature of Delegate

Name of Delegate: GAVIN CHERRY

Capacity of Delegate:

DEVELOPMENT ASSESSMENT COORDINATOR

Electronic signature affixed by me, or at my direction,on 11/05/2021

Signature of Witness

ABBY YOUNAN

Name of Witness: (BLOCK CAPITALS)

c/- 601 High Street Penrith

Address of Witness: (BLOCK CAPITALS)

If space is insufficient use additional annexure sheet

Surveyor's Reference: 10862.DP.002.D

Req:R936248 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2
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PLAN FORM 6A (2017) **DEPOSITED PLAN ADMINISTRATION SHEET** Sheet 4 of 4 sheet(s)

Office Use Only

Registered: 19/05/2021

Office Use Only

DP1268632

PLAN OF SUBDIVISION OF
LOT 1 IN DP1261030

Subdivision Certificate number: SC21/0014

Date of Endorsement: 11/05/2021

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses - See 60(c) *SSI Regulation 2017*
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Owner of: Lot 1 in DP1261030

EXECUTED by FITZPATRICK INVESTMENTS PTY LIMITED

(ABN 42 001 662 862) by the authorized person whose signature

appears below pursuant to Section 127 of the Corporations Act 2001 (Cth):

Sole Director / Secretary

HUNTER RUSSELL COTTLE

If space is insufficient use additional annexure sheet

Surveyor's Reference: 10862.DP.002.D

Req:R936321 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2024 09:07 /Seq:1 of 9
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ROPES CREEK BOUNDARY LINES

No.	BEARING	DISTANCE
5	187° 00′ 30″	18.49
6	186° 54′	17.345
7	169° 46′	17.725
8	163° 48′	1.105
9	165° 58′ 20″	22.69
10	134° 02′	15.395
11	41° 45′	13.63
12	78° 04′ 40″	11.095
13	131° 31′ 20″	12.235
14	120° 10′ 40″	16.535
15	189° 47′ 40″	18.02
16	157° 43′ 40″	17.135
17	114° 12′ 20″	29.255
18	116° 32′	32.855
19	133° 24′ 20″	21.24
20	177° 28′ 10″	29.845
21	183° 51′ 10″	16.025
22	200° 49′ 50″	39.585
23	125° 53′ 10″	18.98
24	145° 39′ 10″	19.06
25	208° 32′ 40″	12.5
26	220° 58′	14.405
27	231° 17′ 10″	20.775
28	234° 12′	24.935
29	202° 17′ 40″	11.515
30	169° 15′	10.6
31	142° 36′ 50″	59.96
32	122° 48′ 30″	32.475
33	163° 57′	19.005
34	141° 04′ 20″	18.63
35	69° 27′ 30″	27.12
36	184° 02′ 30″	16.775
37	215° 15′ 20″	32.605
38	217° 02′ 15″	10.33
39	200° 29′ 15″	21.515
40	225° 50′	28.56
41	252° 11′ 05″	46.915
42	232° 46′ 50″	10.89
43	174° 32′ 45″	11.295
44	144° 15′ 20″	29.655
45	113° 04′ 45″	13.86
46	205° 23′ 45″	21.2
47	263° 21′ 50″	8.555
48	241° 31′ 30″	55.58
49	246° 36′ 20″	27.5
50	157° 58′ 25″	21.71
51	174° 29′ 35″	30.065
52	220° 51′ 40″	28.68
53	188° 04′ 25″	16.16
54	207° 35′ 15″	17.02
55	140° 30′	12.95
56	180° 40′ 35″	21.025
57	242° 08′ 45″	21.995
58	284° 25′ 30″	9.27
59	234° 14′ 20″	12.16
60	213° 37′ 05″	19.375
61	234° 07′ 20″	20.295
62	192° 51′ 35″	17.66
63	240° 19′ 45″	12.94
64	202° 38′	10.53
65	160° 14′ 10″	25.905
66	136° 45′ 50″	25.335
67	171° 27′ 25″	23.595
68	199° 18′ 50″	15.145
69	230° 19′ 10″	14.48
70	251° 25′ 20″	21.91
71	233° 27′ 25″	14.255
72	201° 45′ 40″	18.725
73	180° 02′ 20″	20.94
74	201° 52′ 05″	8.03
75	167° 13′ 10″	10.19
76	126° 08′ 15″	9.355
77	75° 21′ 45″	15.815
78	150° 41′ 45″	5.51

ARC SCHEDULE

No.	CHORD BEARING	CHORD DISTANCE	ARC	RAD
81	100° 23′ 30″	63.82	64.26	157.965
82	100° 24′ 20″	63.815	64.26	157.65
84	130° 08′ 30″	25.755	26.68	29.1
85	168° 08′	24.595	24.765	60.5
86	174° 57′ 30″	43.135	43.19	252.5
87	182° 31′ 15″	236.3	238.175	547.5
88b	14° 35′ 25″	7.91	7.91	577.5
92	345° 42′ 40″	36.59	37.29	55.5
93	1° 51′	71.795	71.83	661.905

LINES TABLE

No.	BEARING	DISTANCE
1	101° 28′	36.15
3	101° 28′	35.875
4	99° 36′ 40″	46.37
79	262° 55′ 20″	27.94
80	264° 38′ 25″	1.22
83	103° 52′	18.185
88	194° 59′	51.855
88a	14° 59′	36.765
94	358° 44′ 20″	43.265

NEW EASEMENTS

(EW3) EASEMENT TO DRAIN WATER 8.8 WIDE & VARIABLE WIDTH
(EW4) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.2)
(EW5) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.3)
(EW6) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.4)
(EW7) EASEMENT TO DRAIN WATER 3.5 WIDE
(EW8) EASEMENT TO DRAIN WATER 3 WIDE
(JJ1) RESTRICTION ON THE USE OF LAND (NO.7)
(KK1) POSITIVE COVENANT (NO.8)
(JJ2) RESTRICTION ON THE USE OF LAND (NO.9)
(KK2) POSITIVE COVENANT (NO.10)
(RA1) RIGHT OF ACCESS VARIABLE WIDTH (NO.11)
(RA2) RIGHT OF ACCESS VARIABLE WIDTH (NO.13)
(EWX) POSITIVE COVENANT(NO.12)
(EWY) RIGHT OF ACCESS VARIABLE WIDTH (NO.11)(NO.13)

EXISTING EASEMENTS

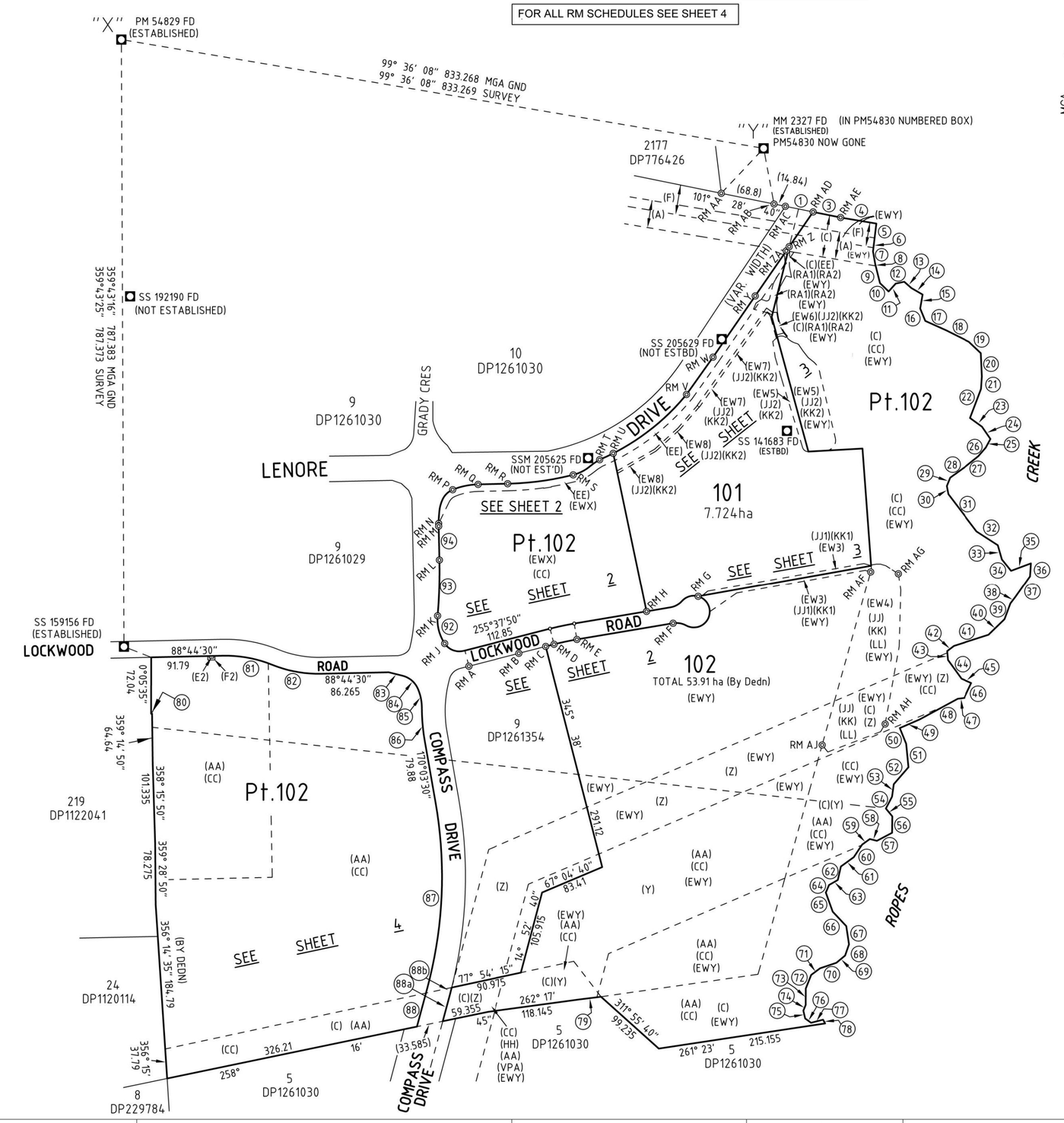
(A) EASEMENT FOR OVERHEAD POWERLINES 35 WIDE (AB35355)
(AA) LAND EXCLUDES MINERALS. SEE CROWN GRANT.
(C) RESTRICTION ON THE USE OF LAND (DP1112947)
(CC) RESERVATIONS AND CONDITIONS IN THE CROWN GRANTS.
(E2) EASEMENT FOR PADMOUNT SUBSTATION 5.5 WIDE (AI964433)
(EE) EASEMENT FOR UNDERGROUND CABLES 9 WIDE & VARIABLE WIDTH (AQ889589)
(F) EASEMENT FOR TRANSMISSION LINE (U399609)
(F2) RESTRICTION ON THE USE OF LAND (AI964431)(SITE)
(JJ) RESTRICTION ON THE USE OF LAND (DP1261354)(No.5)
(KK) POSITIVE COVENANT (DP1261354)(No.6)
(LL) EASEMENT TO DRAIN WATER VARIABLE WIDTH (DP1261354)
(Y) EASEMENT FOR TRANSMISSION LINE 121.92 WIDE (GOV. GAZ 16-10-64 - J924492)
(Z) EASEMENT FOR TRANSMISSION LINE 60.96 WIDE & VARIABLE WIDTH (DP1153614)

NOTATIONS

(EWX) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW5) (EW6) (EW7) (EW8)
(EWY) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW3) (EW4)

FOR ALL SS / PM COORDINATES & CONNECTIONS SEE SHEET 5

FOR ALL RM SCHEDULES SEE SHEET 4



SURVEYOR: PETER ROBERT HOWIE Date of Survey: 24TH APRIL 2021 Surveyor's Ref: 10862.DP.002.D	PLAN OF SUBDIVISION OF LOT 1 IN DP1261030	L.G.A.: PENRITH Locality: ERSKINE PARK Reduction Ratio: 1:4000 Lengths are in metres.	Registered 19/05/2021	DP1268632

Req:R936321 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2024 09:07 /Seq:2 of 9
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NEW EASEMENTS

(EW3) EASEMENT TO DRAIN WATER 8.8 WIDE & VARIABLE WIDTH
(EW4) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.2)
(EW5) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.3)
(EW6) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.4)
(EW7) EASEMENT TO DRAIN WATER 3.5 WIDE
(EW8) EASEMENT TO DRAIN WATER 3 WIDE
(JJ1) RESTRICTION ON THE USE OF LAND (NO.7)
(KK1) POSITIVE COVENANT (NO.8)
(JJ2) RESTRICTION ON THE USE OF LAND (NO.9)
(KK2) POSITIVE COVENANT (NO.10)
(RA1) RIGHT OF ACCESS VARIABLE WIDTH (NO.11)
(RA2) RIGHT OF ACCESS VARIABLE WIDTH (NO.13)

EXISTING EASEMENTS

(A) EASEMENT FOR OVERHEAD POWERLINES 35 WIDE (AB35355)
(AA) LAND EXCLUDES MINERALS. SEE CROWN GRANT.
(C) RESTRICTION ON THE USE OF LAND (DP1112947)
(E2) EASEMENT FOR PADMOUNT SUBSTATION 5.5 WIDE (AI964433)
(EE) EASEMENT FOR UNDERGROUND CABLES 9 WIDE & VARIABLE WIDTH (AQ889589)
(F) EASEMENT FOR TRANSMISSION LINE (U399609)
(JJ) RESTRICTION ON THE USE OF LAND (DP1261354)(No.5)
(KK) POSITIVE COVENANT (DP1261354) (No.6)
(LL) EASEMENT TO DRAIN WATER VARIABLE WIDTH (DP1261354)
(Y) EASEMENT FOR TRANSMISSION LINE 121.92 WIDE (GOV. GAZ 16-10-64 - J924492)
(Z) EASEMENT FOR TRANSMISSION LINE 60.96 WIDE & VARIABLE WIDTH (DP1153614)

(EWX) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW5) (EW6) (EW7) (EW8)
(EWY) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW3) (EW4)

LENORE DRIVE
COMPASS DRIVE
GRADY CRESCENT (20 WIDE & VAR)
ROPES CREEK
LOCKWOOD ROAD
MGA SCIMS
Pt.102 (EWX)
9 DP1261030
10 DP1261030
9 DP1261029
9 DP1261354
101 7.724ha
Pt.102 (EWY)
Pt.102 (C)
SS 205629 FD (NOT ESTBD)
SS 205625 FD (NOT ESTBD)
SS 141683 FD (ESTABLISHED)
MM 2327 FD (ESTABLISHED) PM54830 NOW GONE (IN PM54830 NUMBERED BOX)
RM AA
RM AB
RM AC & DH&W's Fd at CNR
RM AD
RM AE
RM AF
RM A
RM B
RM C
RM D
RM E
RM F
RM G
RM H
RM J
RM K
RM L
RM M
RM N
RM P
RM Q
RM R
RM S
RM T
RM U
RM V
RM W
RM Y
RM Z
RM ZA
SEE DIAGRAM A ABOVE
SEE DIAGRAM B
SEE DIAGRAM C FOR E'MENTS (EW6) & (EW7)
SEE SHEET 3
SEE SHEET 4 FOR E'MENTS (RA1)&(RA2)
SEE SHEET 3
FOR ALL RM SCHEDULES SEE SHEET 4
FOR ALL SS / PM COORDINATES & CONNECTIONS SEE SHEET 5

DIAGRAM A (NOT TO SCALE)

DIAGRAM B (NOT TO SCALE)

DIAGRAM C (NOT TO SCALE)

LINES TABLE

No.	BEARING	DISTANCE
2a	101° 28'	(17.14)
2	101° 28'	(19.01)
3	101° 28'	35.875
4	99° 36' 40"	46.37
89a	345° 37' 50"	20.6
89b	345° 37' 50"	20.6
94	358° 44' 20"	43.265
99	88° 45' 15"	38.265
102	52° 04'	7.71
107	80° 26' 50"	30.98
111	350° 26' 50"	20.6
115	230° 31' 30"	19.085

SCHEDULE OF ARCS

No.	CHORD BEARING	CHORD DISTANCE	ARC	RAD
90	260° 13' 20"	5.875	5.88	50
91	296° 27' 40"	22.5	23.56	22.5
92	345° 42' 40"	36.59	37.29	55.5
93	1° 51'	71.795	71.83	661.905
94a	(359° 24' 50")	(3.415)	(3.415)	145.5
95	2° 29'	18.99	19	145.5
96	15° 09' 50"	15.545	15.605	50
97	45° 51' 30"	18.16	18.6	24.5
98	78° 10' 50"	33.21	33.4	90.5
100	82° 17' 15"	84.54	84.72	375.34
101	63° 56' 40"	22.435	22.595	54.5
103	57° 12'	8.26	8.27	45.5
104	64° 59'	19.905	19.91	293.68
105	51° 14' 35"	120.125	120.98	293.68
106	78° 02' 20"	31.595	31.605	375.93
108	61° 12' 30"	16.97	17.295	25.75
109	73° 43' 20"	21.365	22.5	20.3
110	78° 02' 20"	29.865	29.87	355.33
112	99° 41' 10"	16.97	17.29	25.75
113	22° 12' 05"	40.32	68.54	20.3
114	221° 27' 30"	66.935	67.1	275.5
116	241° 34' 05"	82.105	82.43	267.285

SURVEYOR: PETER ROBERT HOWIE Date of Survey: 24TH APRIL 2021 Surveyor's Ref: 10862.DP.002.D	PLAN OF SUBDIVISION OF LOT 1 IN DP1261030	L.G.A.: PENRITH Locality: ERSKINE PARK Reduction Ratio: 1:1500 Lengths are in metres.	Registered 19/05/2021	DP1268632

Req:R936321 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2024 09:07 /Seq:3 of 9
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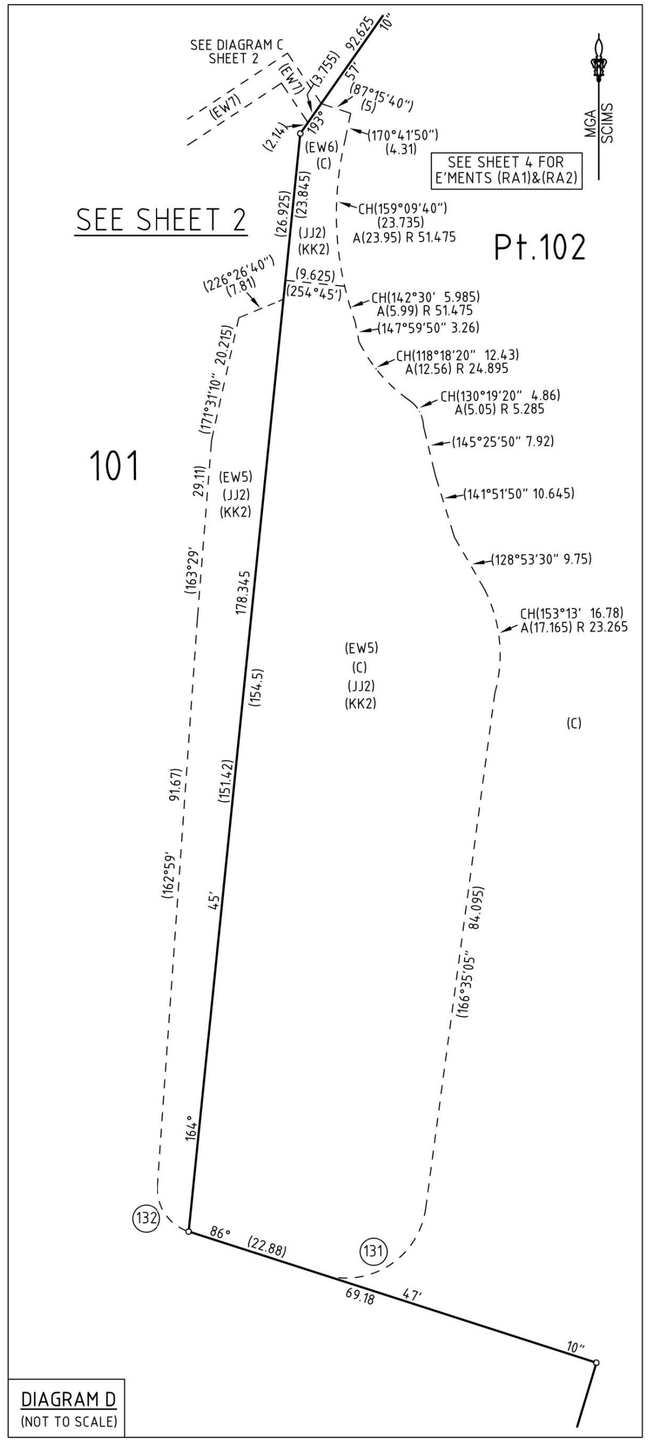


DIAGRAM D
(NOT TO SCALE)

LINES TABLE		
No.	BEARING	DISTANCE
118	(105° 39' 50")	(3.39)
119	(15° 38' 10")	(7.9)
120	(285° 39' 50")	(7.27)
120a	(285° 39' 50")	(2.32)
120b	(285° 39' 50")	(4.95)
121	(230° 40' 45")	(9.015)
122	(15° 38' 10")	(1.3)
123	(75° 59' 50")	(4.735)
124	(89° 05')	(5.54)
125	(107° 34' 20")	(7.3)
126	(122° 25' 20")	(19.01)
127	(171° 26' 10")	(21.065)
128	(210° 11' 40")	(11.49)
129	(320° 44' 40")	(11.835)
130	(175° 45' 40")	(2.26)

ARC SCHEDULE				
	CHORD			
No.	BEARING	DISTANCE	ARC	RAD
117	(142° 58' 20")	(24.715)	(26.57)	20.3
131	(215° 53')	(19.705)	(22.35)	13.025
132	(124° 49' 40")	(9.02)	(9.725)	7.3

NOTATIONS

(EWX) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW5) (EW6) (EW7) (EW8)

(EWY) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW3) (EW4)

(Z1): THE PART OF EASEMENT (LL), PART OF RESTRICTION ON THE USE OF LAND (JJ) & PART OF POSITIVE COVENANT (KK) TO BE RELEASED.

(Z2): THE PART OF EASEMENT (LL), PART OF RESTRICTION ON THE USE OF LAND (JJ) & PART OF POSITIVE COVENANT (KK) TO REMAIN.

'DIAGRAM 'G' & DIAGRAM 'H' ON SHEET 4 ALSO SHOW THE LOCATION OF (Z1) & (Z2).

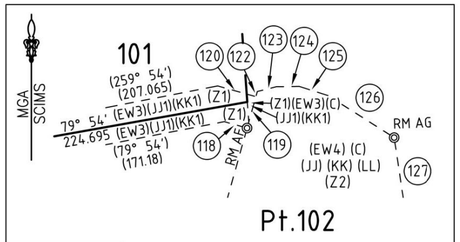
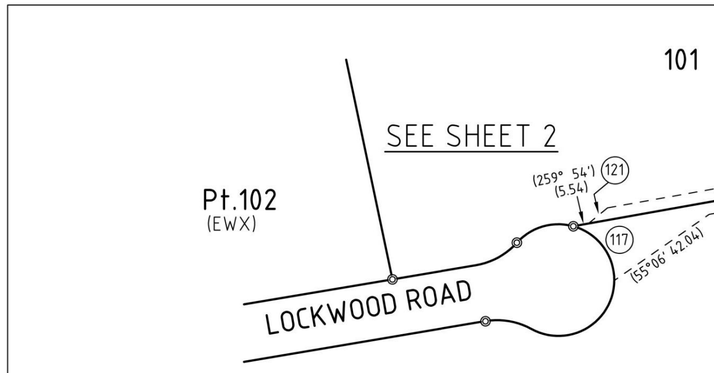


DIAGRAM F
(NOT TO SCALE)

SEE ALSO DIAGRAM G & DIAGRAM H ON SHEET 4

FOR ALL RM SCHEDULES SEE SHEET 4

FOR ALL SS / PM COORDINATES & CONNECTIONS SEE SHEET 5



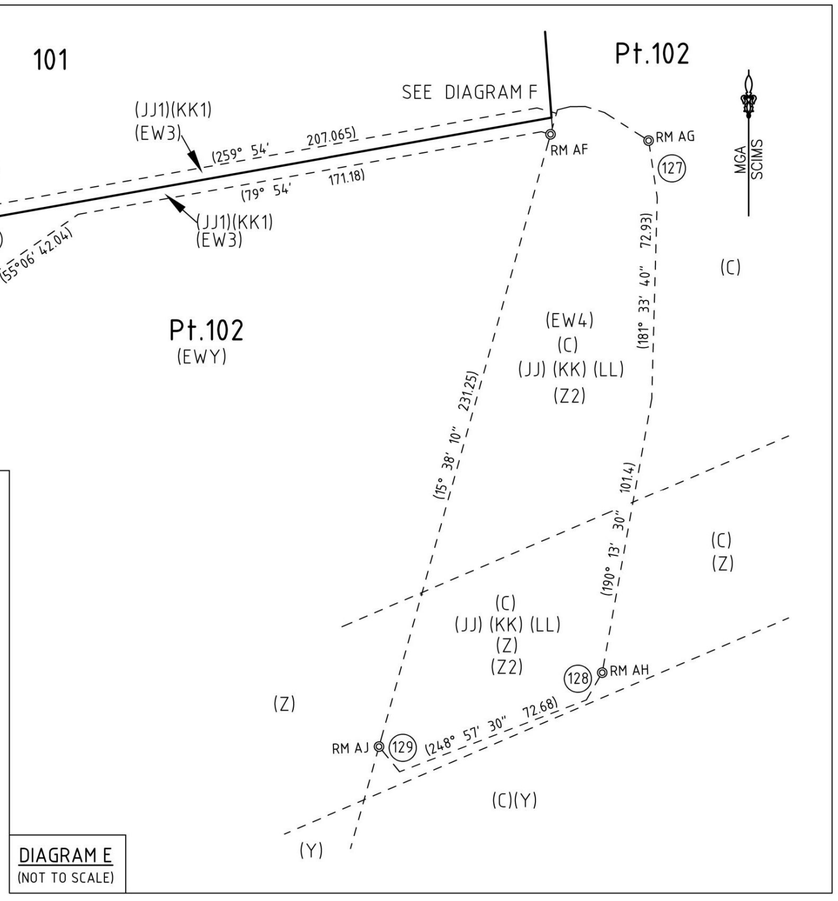


DIAGRAM E
(NOT TO SCALE)

NEW EASEMENTS

(EW3) EASEMENT TO DRAIN WATER 8.8 WIDE & VARIABLE WIDTH
(EW4) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.2)
(EW5) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.3)
(EW6) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.4)
(EW7) EASEMENT TO DRAIN WATER 3.5 WIDE
(JJ1) RESTRICTION ON THE USE OF LAND (NO.7)
(KK1) POSITIVE COVENANT (NO.8)
(JJ2) RESTRICTION ON THE USE OF LAND (NO.9)
(KK2) POSITIVE COVENANT (NO.10)
(RA1) RIGHT OF ACCESS VARIABLE WIDTH (NO.11)
(RA2) RIGHT OF ACCESS VARIABLE WIDTH (NO.13)

EXISTING EASEMENTS

(AA) LAND EXCLUDES MINERALS. SEE CROWN GRANT.
(C) RESTRICTION ON THE USE OF LAND (DP1112947)
(JJ) RESTRICTION ON THE USE OF LAND (DP1261354)(No.5)
(KK) POSITIVE COVENANT (DP1261354) (No.6)
(LL) EASEMENT TO DRAIN WATER VARIABLE WIDTH (DP1261354)
(Y) EASEMENT FOR TRANSMISSION LINE 121.92 WIDE (GOV. GAZ 16-10-64 - J924492)
(Z) EASEMENT FOR TRANSMISSION LINE 60.96 WIDE & VARIABLE WIDTH (DP1153614)

SURVEYOR: PETER ROBERT HOWIE Date of Survey: 24TH APRIL 2021 Surveyor's Ref: 10862.DP.002.D	PLAN OF SUBDIVISION OF LOT 1 IN DP1261030	L.G.A.: PENRITH Locality: ERSKINE PARK Reduction Ratio: 1:1500 Lengths are in metres.	Registered 19/05/2021	DP1268632

SCHEDULES OF REFERENCE MARKS

SCHEDULE OF REFERENCE MARKS A - W

RM	BEARING	DISTANCE	DESCRIPTION	ORIGIN
A	164°51'30"	3.535	RM DH&W FD	DP1261354
	159°38'10"	16.83	RM DH&W FD	DP1261354
B	190°51'30"	3.895	RM DH&W FD	DP1261354
	171°42'10"	16.835	RM DH&W FD	DP1261354
C	209°24'40"	4.87	RM DH&W FD	DP1261354
D	157°54'20"	3.53	RM DH&W FD	DP1261354
	170°29'30"	16.76	RM DH&W FD	DP1261354
E	95°26'40"	13.2	RM DH&W	PLACED
	135°07'30"	20.615	RM DH&W	PLACED
F	187°23'	3.72	RM DH&W	PLACED
	171°52'	16.89	RM DH&W	PLACED
G	35°38'	3.975	RM DH&W	PLACED
H	3°09'	3.72	RM DH&W	PLACED
	354°56'10"	16.96	RM DH&W	PLACED
J	38°53'	0.925	RM GIP FD	DP1261030
K	87°03'	1.005	RM GIP FD	DP1261030
L	83°37'	1.03	RM GIP FD	DP1261030
M	81°03'	1.065	RM GIP FD	DP1261030
N	180°47'	15.17	RM GIP FD	DP1270382
P	96°41'	16.57	RM DH&W FD	DP1261030
	100°03'	26.88	RM DH&W FD	DP1261030
Q	178°22'	8.4	RM DH&W FD	DP1261030
	177°46'	22.55	RM DH&W FD	DP1261030
R	177°46'	8.55	RM DH&W FD	DP1261030
	177°08'	22.71	RM DH&W FD	DP1261030
S	190°20'	10.805	RM SS205625 FD	BY DP1261030
T	74°51'50"	32.385	SS205625 FD	
			(CALC DP1270382 & SURVEY)	
U	71°06'30"	52.095	SS205625	CONNECTION
	168°07'	0.625	RM GIP	PLACED
V	208°22'	28.85	RM DH&W FD	DP1270382
W	205°41'20"	25.56	RM SS205629 FD	DP1270382
Y	124°35'	0.52	RM GIP	PLACED
ZA	201°45'50"	2.05	RM GIP FD	DP1270382
Z	193°57'	0.83	RM GIP	PLACED

SCHEDULE OF REFERENCE MARKS BA - BX

RM	BEARING	DISTANCE	DESCRIPTION	ORIGIN
AA	277°27'	0.47	RM GIP FD	DP 595535
	222°35'	3.85	RM CB FD	REF. BY DP1132214 & SURVEY PLACED BY DP647320
AB	115°42'40"	0.965	RM GIP FD	DP 1157476
AC	RM GONE (DP1157476) DH&W'S FD AT CNR			
	23°39'	2.715	RM DH&W FD	DP1261354
	236°44'	6.495	RM DH&W FD	DP1261354
AD	101°01'30"	3.035	RM GIP FD	DP 1157476
AE	194°49'40"	0.765	RM GIP FD	DP 1157476
AF	65°20'	2.0	RM GIP FD	DP1261354
AG	171°26'	2.0	RM GIP FD	DP1261354
AH	280°13'30"	2.0	RM GIP FD	DP1261354
AJ	105°38'10"	2.0	RM GIP FD	DP1261354

NEW EASEMENTS

(EW3) EASEMENT TO DRAIN WATER 8.8 WIDE & VARIABLE WIDTH
(EW4) EASEMENT TO DRAIN WATER VARIABLE WIDTH (NO.2)
(JJ1) RESTRICTION ON THE USE OF LAND (NO.7)
(KK1) POSITIVE COVENANT (NO.8)
(RA1) RIGHT OF ACCESS VARIABLE WIDTH (NO.11)
(RA2) RIGHT OF ACCESS VARIABLE WIDTH (NO.13)

EXISTING EASEMENTS

(C) RESTRICTION ON THE USE OF LAND (DP1112947)
(EE) EASEMENT FOR UNDERGROUND CABLES 9 WIDE & VARIABLE WIDTH (AQ889589)
(JJ) RESTRICTION ON THE USE OF LAND (DP1261354)(No.5)
(KK) POSITIVE COVENANT (DP1261354) (No.6)
(LL) EASEMENT TO DRAIN WATER VARIABLE WIDTH (DP1261354)

NOTATIONS

(EWY) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW3) (EW4)
(Z1): THE PART OF EASEMENT (LL), PART OF RESTRICTION ON THE USE OF LAND (JJ) & PART OF POSITIVE COVENANT (KK) TO BE RELEASED.
(Z2): THE PART OF EASEMENT (LL), PART OF RESTRICTION ON THE USE OF LAND (JJ) & PART OF POSITIVE COVENANT (KK) TO REMAIN.

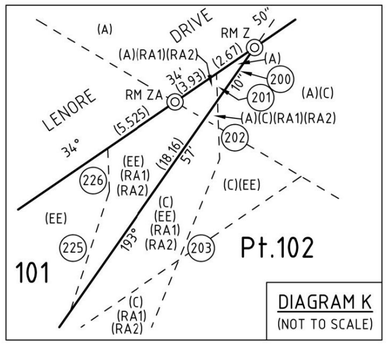


DIAGRAM K
(NOT TO SCALE)

LINES TABLE

No.	BEARING	DISTANCE
200	(193° 57' 10")	(3.74)
201	(156° 48' 20")	(1.555)
202	(156° 48' 20")	(3.615)
203	(181° 00' 10")	(17.91)
204	(169° 05' 40")	(14.545)
205	(283° 57' 10")	(7.17)
206	(208° 35' 10")	(15.75)
207	(192° 26')	(19.41)
209	(174° 41')	(10.56)
210	(170° 42' 10")	(4.31)

LINES TABLE

No.	BEARING	DISTANCE
212	(229° 10')	(2.545)
215	(344° 42')	(27.94)
217	(284° 09' 40")	(16.18)
218	(22° 35' 30")	(8.61)
219	(55° 08' 10")	(8.245)
220	(109° 40' 40")	(5.605)
222	(13° 53' 50")	(16.67)
224	(30°26'30")	(25.86)
225	(356°59'50")	(8.595)
226	(336°48'20")	(2.925)

ARC SCHEDULE

No.	CHORD BEARING	CHORD DISTANCE	ARC	RAD
208	(183°33'30")	(3.085)	(3.1)	10
211	(155°49'40")	(28.945)	(29.355)	50.475
213	(271°19'20")	(10.955)	(11.685)	9.455
214	(231°03')	(1.61)	(1.61)	9.455
216	(314°25'50")	(8.57)	(8.98)	8.5
221	(61°47'10")	(5.935)	(6.685)	4
223	(22°10'10")	(7.195)	(7.22)	25

FOR ALL RM SCHEDULES SEE THIS SHEET

FOR ALL SS / PM COORDINATES & CONNECTIONS SEE SHEET 5

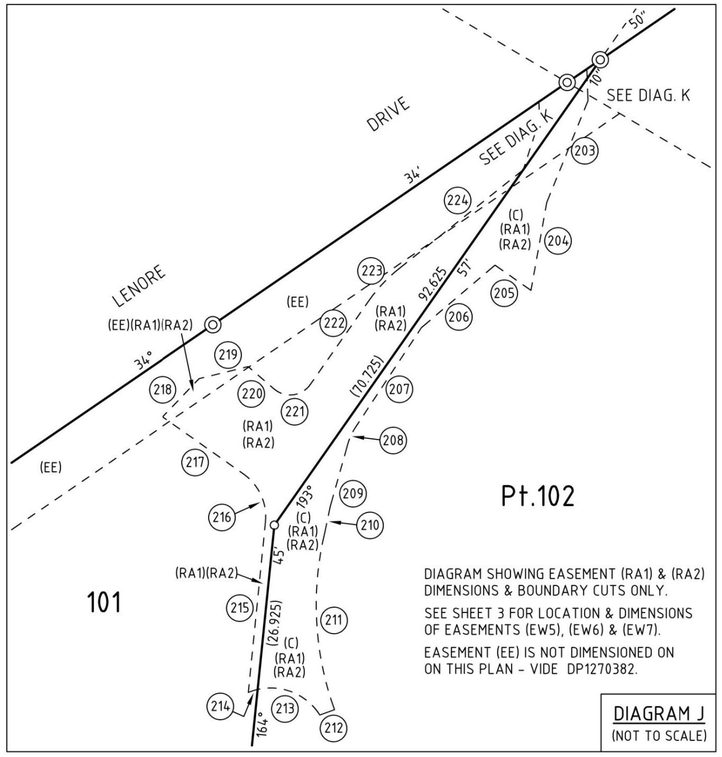


DIAGRAM SHOWING EASEMENT (RA1) & (RA2) DIMENSIONS & BOUNDARY CUTS ONLY.

SEE SHEET 3 FOR LOCATION & DIMENSIONS OF EASEMENTS (EW5), (EW6) & (EW7).

EASEMENT (EE) IS NOT DIMENSIONED ON ON THIS PLAN - VIDE DP1270382.

DIAGRAM J
(NOT TO SCALE)

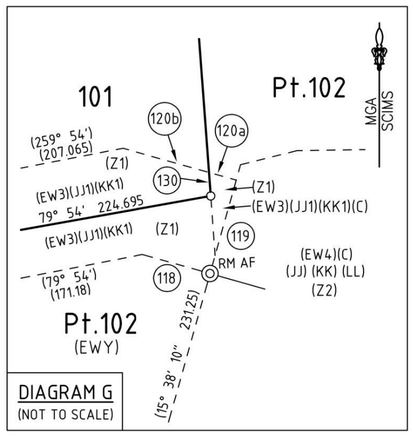
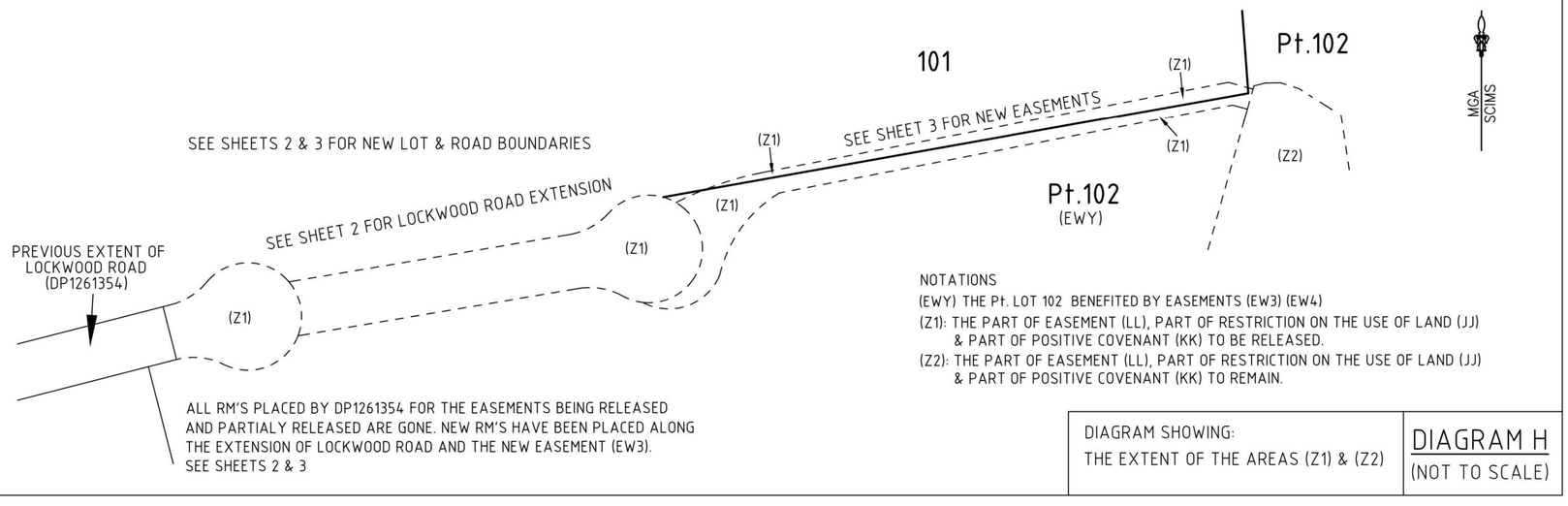


DIAGRAM G
(NOT TO SCALE)



NOTATIONS

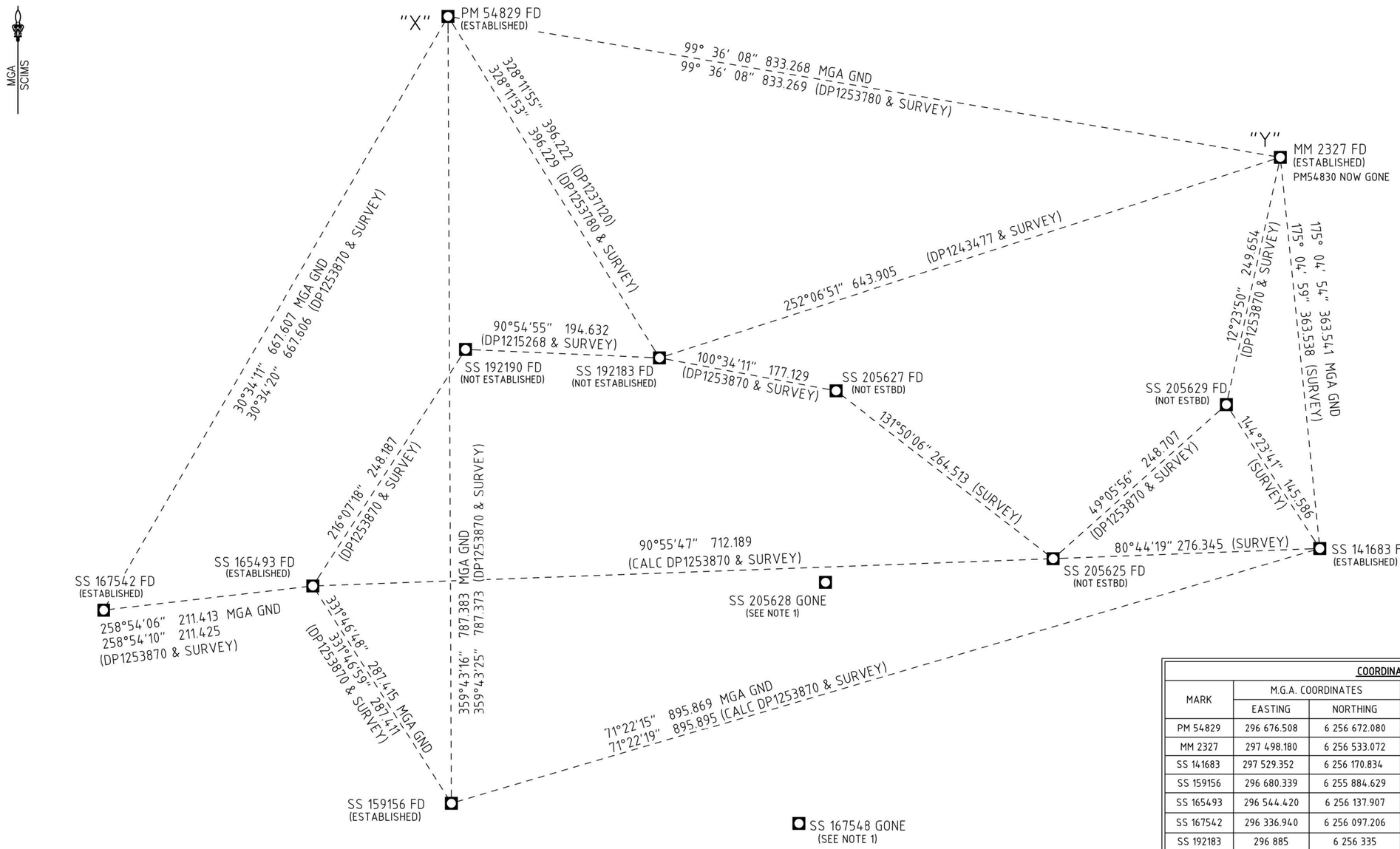
(EWY) THE Pt. LOT 102 BENEFITED BY EASEMENTS (EW3) (EW4)
(Z1): THE PART OF EASEMENT (LL), PART OF RESTRICTION ON THE USE OF LAND (JJ) & PART OF POSITIVE COVENANT (KK) TO BE RELEASED.
(Z2): THE PART OF EASEMENT (LL), PART OF RESTRICTION ON THE USE OF LAND (JJ) & PART OF POSITIVE COVENANT (KK) TO REMAIN.

DIAGRAM SHOWING:
THE EXTENT OF THE AREAS (Z1) & (Z2)

DIAGRAM H
(NOT TO SCALE)

SURVEYOR: PETER ROBERT HOWIE Date of Survey: 24TH APRIL 2021 Surveyor's Ref: 10862.DP.002.D	PLAN OF SUBDIVISION OF LOT 1 IN DP1261030	L.G.A.: PENRITH Locality: ERSKINE PARK Reduction Ratio: 1:1500 Lengths are in metres.	Registered 19/05/2021	DP1268632

Req:R936321 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2024 09:07 /Seq:4 of 9
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COORDINATE SCHEDULE

MARK	M.G.A. COORDINATES		CLASS	PU	METHOD	STATE
	EASTING	NORTHING				
PM 54829	296 676.508	6 256 672.080	B	N/A	FROM SCIMS	FOUND
MM 2327	297 498.180	6 256 533.072	B	N/A	FROM SCIMS	FOUND IN PM54830 BOX
SS 141683	297 529.352	6 256 170.834	C	N/A	FROM SCIMS	FOUND
SS 159156	296 680.339	6 255 884.629	C	N/A	FROM SCIMS	FOUND
SS 165493	296 544.420	6 256 137.907	C	N/A	FROM SCIMS	FOUND
SS 167542	296 336.940	6 256 097.206	C	N/A	FROM SCIMS	FOUND
SS 192183	296 885	6 256 335	U	N/A	TRAVERSE	FOUND
SS 192190	296 691	6 256 338	U	N/A	FROM SCIMS	FOUND
SS 205625	297 257	6 256 126	U	N/A	TRAVERSE	FOUND
SS 205627	297 059	6 256 303	U	N/A	TRAVERSE	FOUND
SS 205629	297 445	6 256 289	U	N/A	TRAVERSE	FOUND

DATE OF SCIMS COORDINATES: 28-02-2021 MGA ZONE 56 MGA DATUM: MGA2020
COMBINED SCALE FACTOR: 1.000097

NOTE 1: SS167548 & SS205628 GONE DUE TO COMPASS DRIVE CONSTRUCTION BY PERSONS UNKNOWN

SURVEYOR: PETER ROBERT HOWIE Date of Survey: 24TH APRIL 2021 Surveyor's Ref: 10862.DP.002.D	PLAN OF SUBDIVISION OF LOT 1 IN DP1261030	L.G.A.: PENRITH Locality: ERSKINE PARK Reduction Ratio: 1:1500 Lengths are in metres.	Registered 19/05/2021	DP1268632

Req:R936321 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2024 09:07 /Seq:5 of 9
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Req:R936321 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2
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PLAN FORM 6 (2017)	**DEPOSITED PLAN ADMINISTRATION SHEET**	Sheet 1 of 4 sheet(s)

Office Use Only

Registered: 19/05/2021

Title System: TORRENS

Office Use Only

DP1268632

PLAN OF SUBDIVISION OF
LOT 1 IN DP1261030

LGA: PENRITH

Locality: ERSKINE PARK

Parish: MELVILLE

County: CUMBERLAND

Survey Certificate

I, PETER ROBERT HOWIE.....

of ICD ASIA PACIFIC, Level 2,21 Solent Circuit,

Baulkham Hills, NSW 2153 Ph: 02 8882 2700, Mob: 0427 565 566

a surveyor registered under the *Surveying and Spatial Information Act 2002*, certify that:

~~*(a) The land shown in the plan was surveyed in accordance with the *Surveying and Spatial Information Regulation 2017*, is accurate and the survey was completed on ....., or~~

~~*(b)~~ The part of the land shown in the plan (*being Lot 101, the extension of Lockwood Road and easements) was surveyed in accordance with the *Surveying and Spatial Information Regulation 2017*, the part surveyed is accurate and the survey was completed on 24TH APRIL 2021, the part not surveyed was compiled in accordance with that Regulation, ~~or~~

~~*(c) The land shown in this plan was compiled in accordance with the *Surveying and Spatial Information Regulation 2017*.~~

Datum Line: 'X' (PM54829) – 'Y' (MM2327)

Type: *Urban/~~*Rural~~

The terrain is *Level-Undulating ~~/ *Steep-Mountainous.~~

Signature: Peter Howie Dated: 24.04.2021

Surveyor Identification No: 257
Surveyor registered under
the *Surveying and Spatial Information Act 2002*
*Strike out inappropriate words.
**Specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey.

Crown Lands NSW/Western Lands Office Approval

I, ... (Authorised Officer) in approving this plan certify that all necessary approvals in regard to the allocation of the land shown herein have been given.

Signature: .....

Date: .....

File Number: .....

Office: .....

Subdivision Certificate

I, Gavin Cherry .....

Authorised Person/~~General Manager/*Accredited Certifier~~, certify that the provisions of s.109J of the *Environmental Planning and Assessment Act 1979* have been satisfied in relation to the proposed subdivision, new road or reserve set out herein.

Signature: ..... Electronic signature affixed by me, or at my direction,on 11/05/2021

~~Accreditation number~~: .....

Consent Authority: Penrith City Council

Date of endorsement: 11/05/2021

Subdivision Certificate number: SC21/0014

File number: N/A

*Strike through if inapplicable.

Plans used in the preparation of survey/~~compilation~~.

DP776426, DP647320, DP838541, DP1070730, DP1080305,DP1087837, DP1094504, DP1100120, DP1112947, DP1122041,DP1132214, DP1139394, DP1143935, DP1144264, DP1147778, DP1146476, DP1150138, DP1150141, DP1153614 DP1157476, DP1152072, DP1168407, DP1186190, DP1191081 DP1203393, DP1203886, DP1215268, DP1237120, DP1243477, DP1248791, DP1253870, DP1261030, DP1261354, DP1270382

Statements of intention to dedicate public roads, create public reserves and drainage reserves, acquire/resume land.

IT IS INTENDED TO DEDICATE THE EXTENSION OF LOCKWOOD ROAD TO THE PUBLIC AS PUBLIC ROAD.

Surveyor's Reference: 10862.DP.002.D

Signatures, Seals and Section 88B Statements should appear on PLAN FORM 6A

Req:R936321 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2
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PLAN FORM 6A (2017) **DEPOSITED PLAN ADMINISTRATION SHEET** Sheet 2 of 4 sheet(s)

Office Use Only

Registered: 19/05/2021

Office Use Only

DP1268632

PLAN OF SUBDIVISION OF
LOT 1 IN DP1261030

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses - See 60(c) *SSI Regulation 2017*
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Subdivision Certificate number: SC21/0014

Date of Endorsement: 11/05/2021

PURSUANT TO SECTION 88B OF THE CONVEYANCING ACT 1919, AS AMENDED, IT IS INTENDED:

TO CREATE:

1. Easement to Drain Water 8.8 wide & variable width (EW3)
2. Easement to Drain Water variable width (EW4)
3. Easement to Drain Water variable width (EW5)
4. Easement to Drain Water variable width (EW6)
5. Easement to Drain Water 3.5 wide (EW7)
6. Easement to Drain Water 3 wide (EW8)
7. Restriction on the Use of Land (JJ1)
8. Positive Covenant (KK1)
9. Restriction on the Use of Land (JJ2)
10. Positive Covenant (KK2)
11. Right of Access Variable Width (RA1)
12. Positive Covenant
13. Right of Access Variable Width (RA2)

TO RELEASE:

1. Easement for Services variable width created by DP1261354 and denoted (ES1) in DP1261354.
2. Right of Carriageway variable width created by DP1261354 and denoted (RW1) in DP1261354.
3. Part of Easement to Drain Water variable width created by DP1261354 and denoted (LL) in DP1261354.

Table showing addresses:

Lot	Street Number	Street Name	Street Type
101		Lockwood	Road
102		Lockwood	Road

If space is insufficient use additional annexure sheet

Surveyor's Reference: 10862.DP.002.D

Req:R936321 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2
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PLAN FORM 6A (2017) **DEPOSITED PLAN ADMINISTRATION SHEET** Sheet 3 of 4 sheet(s)

Office Use Only

Registered: 19/05/2021

Office Use Only

DP1268632

PLAN OF SUBDIVISION OF
LOT 1 IN DP1261030

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses - See 60(c) *SSI Regulation 2017*
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Subdivision Certificate number: SC21/0014

Date of Endorsement: 11/05/2021

Penrith City Council by its authorised)
Delegate pursuant to ~~s.377~~ s378 of the)
Local Government Act 1993)

Electronic signature affixed by me, or at my direction,on 11/05/2021

Signature of Delegate

Name of Delegate: GAVIN CHERRY

Capacity of Delegate:

DEVELOPMENT ASSESSMENT COORDINATOR

Electronic signature affixed by me, or at my direction,on 11/05/2021

Signature of Witness

ABBY YOUNAN

Name of Witness: (BLOCK CAPITALS)

c/- 601 High Street Penrith

Address of Witness: (BLOCK CAPITALS)

If space is insufficient use additional annexure sheet

Surveyor's Reference: 10862.DP.002.D

Req:R936321 /Doc:DP 1268632 P /Rev:19-May-2021 /NSW LRS /Prt:21-Aug-2
© Office of the Registrar-General /Src:InfoTrack /Ref:78 Lockwood Roa

PLAN FORM 6A (2017) **DEPOSITED PLAN ADMINISTRATION SHEET** Sheet 4 of 4 sheet(s)

Office Use Only

Registered: 19/05/2021

Office Use Only

DP1268632

PLAN OF SUBDIVISION OF
LOT 1 IN DP1261030

Subdivision Certificate number: SC21/0014

Date of Endorsement: 11/05/2021

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses - See 60(c) *SSI Regulation 2017*
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Owner of: Lot 1 in DP1261030

EXECUTED by FITZPATRICK INVESTMENTS PTY LIMITED

(ABN 42 001 662 862) by the authorized person whose signature

appears below pursuant to Section 127 of the Corporations Act 2001 (Cth):

Sole Director / Secretary

HUNTER RUSSELL COTTLE

If space is insufficient use additional annexure sheet

Surveyor's Reference: 10862.DP.002.D

InfoTrack
© Office of the Registrar-General /Src:InfoTrack /Ref:78 Lockwood Road? Erskine Park
Req:R936323 /Doc:DP 0776426 P /Rev:29-Jun-1992 /NSW LRS /Pgs:ALL /Prt:21-Aug-2024 09:07 /Seq:1 of 4

PLAN FORM 2 — Plan Drawing only to appear in this space — *OFFICE USE ONLY

DP776426

Registered: 18.7.1988

C.A.:

Title System: TORRENS

Purpose: SUBDIVISION

Ref. Map: U7352 - 3" - 6"
U8252 - 1" - 4"

Last Plan: DP 709078

PLAN
OF SUBDIVISION OF LOT 1115 IN D.P. 709078

Reduction Ratio 1: 4000
Lengths are in metres.

Mun./Shire: City PENRITH.

Locality: ERSKINE PARK.

Parish: MELVILLE

County: CUMBERLAND.

This is sheet 1 of my plan in 4 sheets.
(Delete if inapplicable)

I, PAUL MICHAEL DALY
OF JOHN M. DALY & ASSOCIATES, of 155 KING ST., CAMPBELLTOWN,
a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that the survey represented in this plan
is accurate and has been made *(1) ~~by me~~ (2) under my immediate supervision in accordance with the Survey Practice Regulations, 1933, and was completed on †
20-6-1988.

Signature: Paul M Daly

Surveyor registered under the Surveyors Act, 1929, as amended.
Datum Line of Azimuth: 'A' - 'B'.
*Strike out either (1) or (2). †Insert date of survey.

Signatures and seals only.

SIGNED BY ME IAN HAROLD MATTHEWS DELEGATE OF THE LAND AND HOUSING CORPORATION AND I HEREBY CERTIFY THAT I HAVE NO NOTICE OF THE REVOCATION OF SUCH DELEGATION:

Council Clerk's Certificate

I hereby certify that –

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

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

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

Subdivision No. .....

Date .....

(Signature) .....
Council Clerk

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

PERMANENT MARKS (DRILL HOLE & WINGS IN KERB & CONC. BLOCKS)

NO.	BEARING	DISTANCE	NO.	BEARING	DISTANCE
ab	113° 00'	1·0 (CONC. BLK)	as	120° 00'	3·44 - 10·64
ak	113° 00'	1·0 (CONC. BLK)	at	131° 00'	6·14 - 16·775
al	81° 01' 20"	1·0 (CONC. BLK)	au	148° 22' 45"	3·37 - 13·385
am	136° 46' 30"	3·345 - 16·62	av	154° 25' 20"	3·85 - 12·755
an	70° 00'	3·46 - 12·795	aw	165° 21' 30"	5·735 - 21·59
ap	153° 08' 10"	3·425 - 16·925	ax	148° 00'	3·41 - 16·585
aq	100° 00'	3·525 - 11·14	ay	337° 46' 30"	3·365 - 16·855
ar	172° 04' 50"	3·545 - 17·495	az	71° 00'	3·435 - 12·4

CURVED BOUNDARIES.

NO.	BEARING	CHORD.	ARC.	RADIUS
59	66° 33' 05"	55·02	55·225	185
60	77° 32' 40"	111·93	113·445	200
61	112° 23' 50"	127·6	129·87	"
62	118° 41' 25"	77·82	78·42	182·5
63	91° 50' 30"	50·45	50·61	"
64	66° 29' 55"	51·61	51·815	"
65	34° 38' 30"	100·795	102·125	"
66	10° 09' 40"	10·435	10·725	237·45
67	287° 11' 00"	26·69	27·055	47·5
68	245° 43' 40"	12·05	12·075	67·5

SCHEDULE OF SHORT BOUNDARIES

NO.	BEARING	DISTANCE	NO.	BEARING	DISTANCE	NO.	BEARING	DISTANCE
69	355°00'00"	10	89	234°17'00"	15	109	334°30'40"	37·275
70	250°00'00"	5	90	280°16'00"	5·8	110	257°15'00"	21·3
71	180°52'10"	43·645	91	212°37'00"	5·84	111	13°00'00"	30·5
72	270°52'10"	53·47	92	259°30'00"	20	112	22°30'00"	32·5
73	0°59'00"	39	93	306°23'00"	5·84	113	252°00'00"	22
74	0°59'00"	54	94	236°15'00"	5·785	114	260°00'00"	19·35
75	0°59'00"	5	95	283°09'00"	13	115	265°30'00"	19
76	311°59'20"	18·515	96	329°25'00"	5·785	116	274°00'00"	19
77	0°59'00"	24	97	266°00'00"	5·655	117	278°00'00"	19
78	270°52'10"	104·5	98	311°00'00"	15	118	283°00'00"	19
79	270°52'10"	33·79	99	356°00'00"	5·655	119	290°00'00"	19
80	180°52'10"	3·755	100	311°00'00"	54·63	120	292°00'00"	19
81	270°52'10"	146	101	194°21'00"	5·52	121	301°05'40"	43·5
82	0°52'10"	10·13	102	236°32'20"	15	122	281°40'00"	25
83	266°23'10"	33·275	103	283°00'00"	5·655	123	296°36'00"	32·185
84	355°30'00"	18·48	104	193°00'00"	5·655	124	306°53'00"	18·25
85	265°30'00"	20	105	238°00'00"	15	125	311°00'00"	36·995
86	270°52'10"	36	106	283°00'00"	5·655	126	221°00'00"	10·175
87	355°30'00"	38·58	107	238°00'00"	21·96	127	311°00'00"	33·5
88	187°47'00"	5·8	108	0°28'40"	20·84	128	41°00'00"	6·905

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

PURSUANT TO SECTION 81 OF THE PUBLIC WORKS ACT, 1912 AND SECTION 15(3) OF THE HOUSING ACT 1976, IT IS INTENDED TO DEDICATE SWALLOW DRIVE, LEO PLACE, CANOPUS CLOSE, PISCES PLACE, TAURUS STREET, VOLANS PLACE, AQUARIUS CRESCENT, KRUGER PLACE, ADHARA STREET, WEAVER STREET, POLLUX CLOSE, PEGASUS STREET AND THE PATHWAYS AS PUBLIC HIGHWAY.

PURSUANT TO SECTION 15(3) OF THE HOUSING ACT, 1976, IT IS INTENDED TO DEDICATE LOTS 2171 AND 2174 AS PUBLIC RESERVE.

WHERE ANY LOT SHOWN HEREIN ABUTS ON A NON-TIDAL STREAM OR ROAD, THE TITLE EXTENDS ONLY TO THE BOUNDARY OF THE STREAM OR ROAD, AND NOT TO THE MIDDLE LINE THEREOF.

PURSUANT TO SECTION 88B OF THE CONVEYANCING ACT, 1919-1964, AS AMENDED, IT IS INTENDED TO CREATE:-

1. EASEMENT TO DRAIN WATER, 1M WIDE.
2. EASEMENT TO DRAIN WATER, 2 WIDE.
3. EASEMENT FOR UNDERGROUND MAINS, 1 WIDE.
4. EASEMENT FOR ELECTRICITY PURPOSES, 2·75 WIDE.
5. RIGHT OF CARRIAGEWAY, 3 WIDE AND VARIABLE.
6. RIGHT OF CARRIAGEWAY, 3 WIDE.
7. RESTRICTION ON USE.

DIAGRAM 'A'
RATIO 1:800

DIAGRAM B
RATIO 1:1000

Ø EASEMENT FOR ELECTRICITY PURPOSES, 2·75 WIDE.

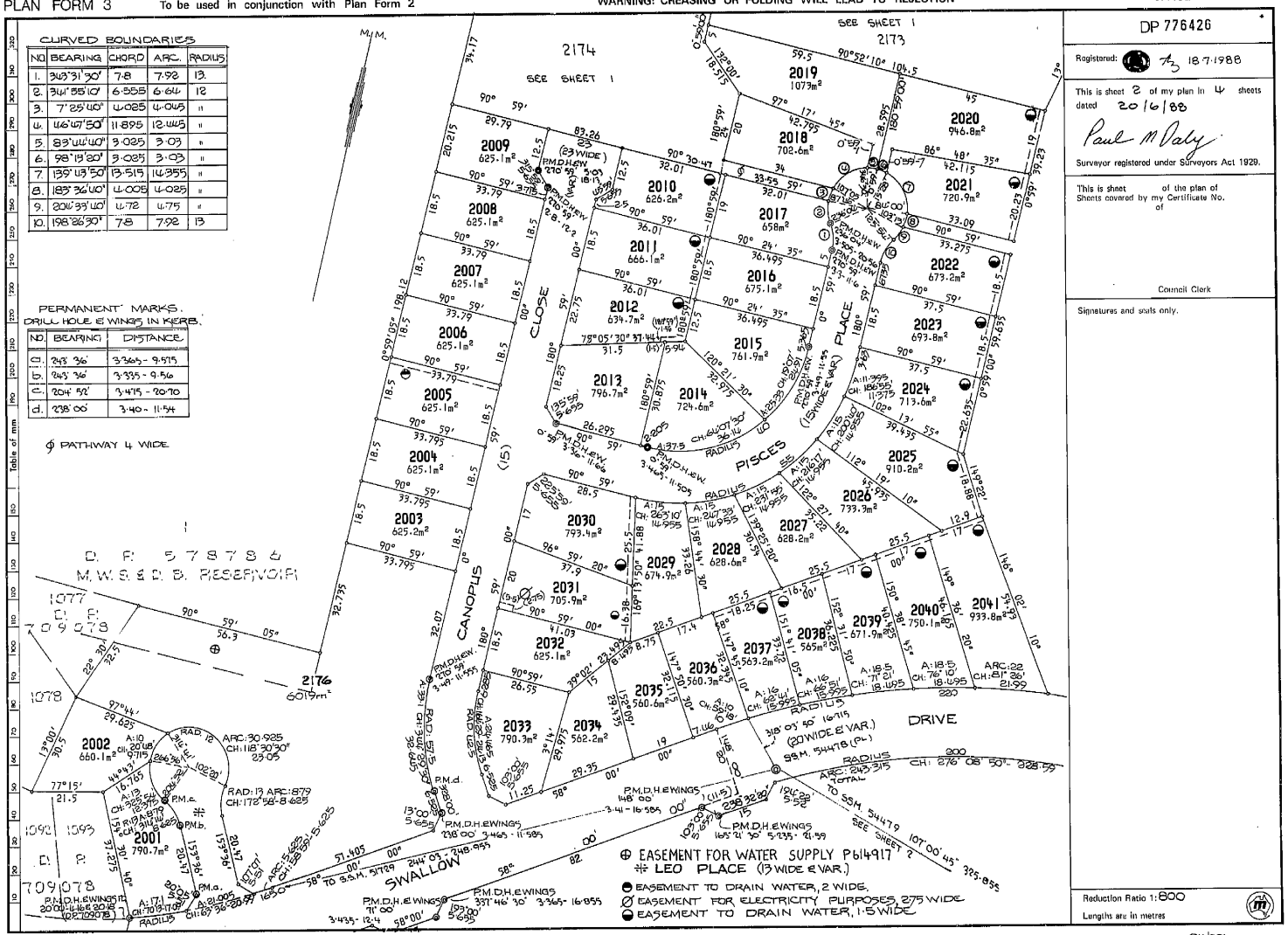
WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

SURVEYOR'S REFERENCE 84/304

This negative is a photograph made as a permanent record of a document in the custody of the Registrar General this day.

18th July, 1988

PLAN FORM 3 To be used in conjunction with Plan Form 2 WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION * OFFICE USE ONLY



DP 776426

Registered: 18.7.1988

This is sheet 2 of my plan in 4 sheets dated 20/6/88

Paul M Daly

Surveyor registered under Surveyors Act 1929.

This is sheet of the plan of Sheets covered by my Certificate No. of

Council Clerk

Signatures and seals only.

Reduction Ratio 1:800

Lengths are in metres

Plan Drawing only to appear in this space

SURVEYOR'S REFERENCE. 84/304

This negative is a photograph made as a permanent record of a document in the custody of the Registrar General this day.

18th July, 1988

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

Req:R936323 /Doc:DP 0776426 P /Rev:29-Jun-1992 /NSW LRS /Pgs:ALL /Prt:21-Aug-2024 09:07 /Seq:2 of 4
© Office of the Registrar-General /Src:InfoTrack /Ref:78 Lockwood Road? Erskine Park

PLAN FORM 3 To be used in conjunction with Plan Form 2 WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION * OFFICE USE ONLY

DP 776426

Registered: 18·7·1988

This is sheet 3 of my plan in 4 sheets dated 20/6/88

Paul M Daly

Surveyor registered under Surveyors Act 1929.

This is sheet of the plan of Sheets covered by my Certificate No. of

Council Clerk

Signatures and seals only.

Reduction Ratio 1: 1000

Lengths are in metres

SURVEYOR'S REFERENCE 84|304

Plan Drawing only to appear in this space

CURVED BOUNDARIES

NO.	BEARING.	CHORD.	ARC.	RADIUS
11.	128°37'00"	3	3	220
12.	129°24'00"	3	3	"
13.	130°18'10"	3·95	3·95	162·5
14.	291°37'50"	8·625	8·79	13.
15.	294°22'00"	9·03	9·26	12.
16.	340°20'50"	9·715	10	"
17.	28°05'40"	9·715	10	"
18.	61°40'00"	4·045	4·065	"
19.	95°15'00"	9·715	10	"
20	144°25'50"	10·26	10·6	"
21.	150°22'00"	8·625	8·79	13.
22.	103°33'00"	5·71	5·755	"
23.	122°55'10"	3·03	3·039	"
24.	112°59'10"	6·865	6·965	12.
25.	351°00'40"	4·11	4·13	"

PERMANENT MARKS, DRILL HOLES & WINGS IN KERB.

NO.	BEARING	DISTANCE
e.	301°32'30"	3·32 - 11·75
f.	311°00'	3·42 - 11·55
g.	352°30'	3·45 - 11·635
h.	352°30'	3·355 - 11·525
j.	306°30'	3·38 - 11·57
k.	306°30'	3·42 - 11·595
l.	210°52'	3·39 - 11·515
m.	210°52'	3·38 - 11·60
n.	66°40'30"	4·19 - 10·91
p.	41°00'	3·365 - 9·585
q.	79°44'20"	3·395 - 20·505
r.	180°52'10"	3·19 - 9·56
s.	180°52'10"	3·375 - 9·57
t	219°36'	3·44 - 20·54

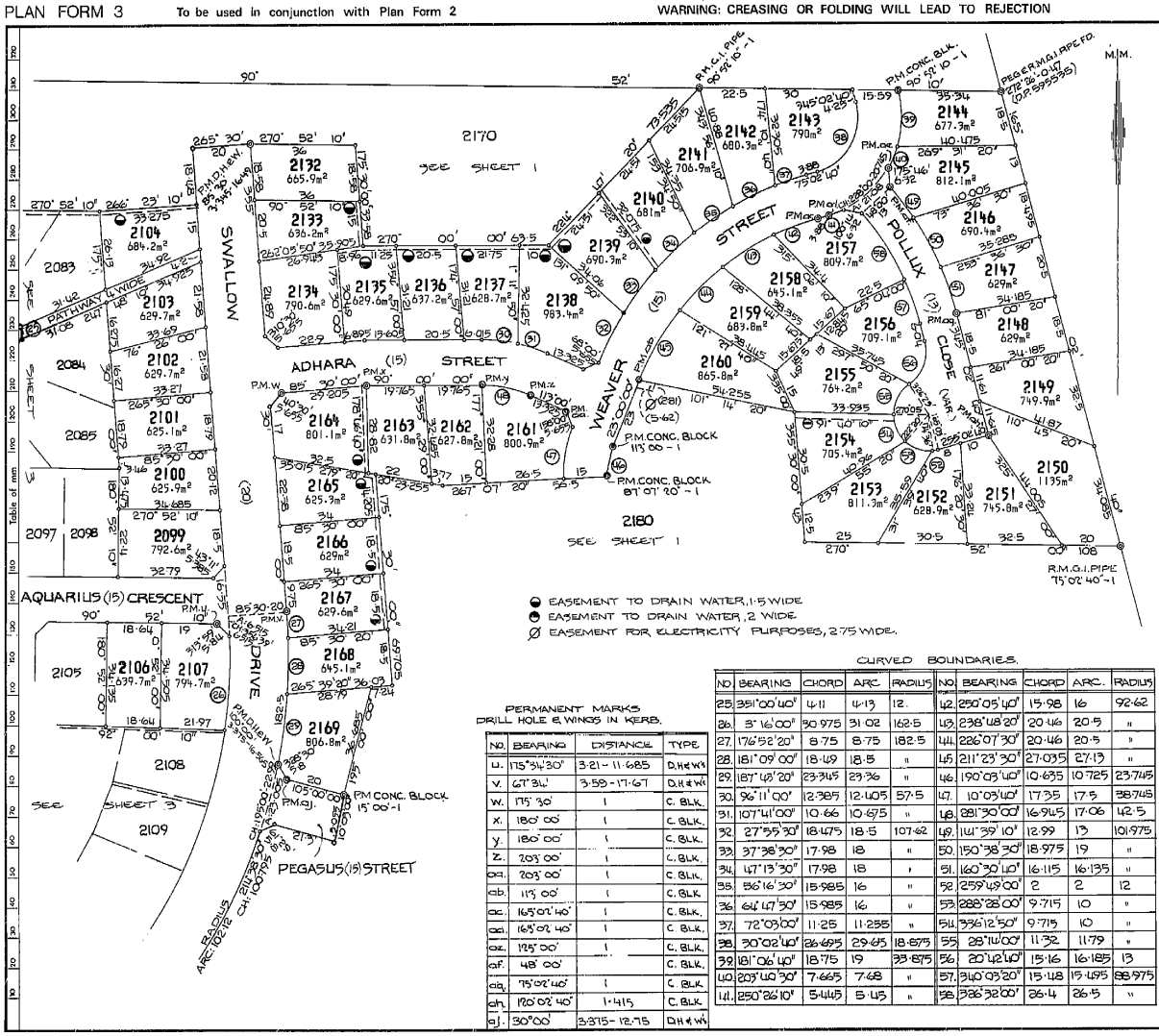
- EASEMENT TO DRAIN WATER, 1·5 WIDE.
- EASEMENT FOR UNDERGROUND MAINS, 1 WIDE.
- EASEMENT FOR ELECTRICITY PURPOSES, 2·75 WIDE.
- RIGHT OF CARRIAGEWAY, 3 WIDE & VARIABLE.
- RIGHT OF CARRIAGEWAY, 3 WIDE.

This negative is a photograph made as a permanent record of a document in the custody of the Registrar General this day.

18th July, 1988

Req:R936323 /Doc:DP 0776426 P /Rev:29-Jun-1992 /NSW LRS /Pgs:ALL /Prt:21-Aug-2024 09:07 /Seq:3 of 4
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PLAN FORM 3 To be used in conjunction with Plan Form 2 WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION * OFFICE USE ONLY



PERMANENT MARKS
DRILL HOLE & WINGS IN KERB.

NO.	BEARING	DISTANCE	TYPE
u.	175°34'30"	3·21 - 11·685	D.H.&W'S
v.	67°34'	3·59 - 17·67	D.H.&W'S
w.	175°30'	1	C. BLK.
x.	180°00'	1	C. BLK.
y.	180°00'	1	C. BLK.
z.	203°00'	1	C. BLK.
aa.	203°00'	1	C. BLK.
ab.	113°00'	1	C. BLK.
ac.	165°02'40"	1	C. BLK.
ad.	165°02'40"	1	C. BLK.
ae.	195°00'	1	C. BLK.
af.	48°00'		C. BLK.
ag.	75°02'40"	1	C. BLK.
ah.	120°02'40"	1·415	C. BLK.
aj.	30°00'	3·375 - 12·75	D.H.&W'S

CURVED BOUNDARIES.

NO.	BEARING	CHORD	ARC	RADIUS	NO.	BEARING	CHORD	ARC.	RADIUS
25.	351°00'40"	4·11	4·13	12.	42.	250°05'40"	15·98	16	92·62
26.	3°16'00"	30·975	31·02	182·5	43.	238°48'20"	20·46	20·5	"
27.	176°52'20"	8·75	8·75	182·5	44.	226°07'30"	20·46	20·5	"
28.	181°09'00"	18·49	18·5	"	45.	211°23'30"	27·035	27·13	"
29.	187°48'20"	23·345	23·36	"	46.	190°03'40"	10·635	10·725	23·745
30.	96°11'00"	12·385	12·405	57·5	47.	10°03'40"	17·35	17·5	338·745
31.	107°41'00"	10·66	10·675	"	48.	281°30'00"	16·945	17·06	42·5
32.	27°55'30"	18·475	18·5	107·62	49.	141°39'10"	12·99	13	101·975
33.	37°38'30"	17·98	18	"	50.	150°38'30"	18·975	19	"
34.	47°13'30"	17·98	18	"	51.	160°30'10"	16·115	16·135	"
35.	56°16'30"	15·985	16	"	52.	259°49'00"	2	2	12
36.	64°47'30"	15·985	16	"	53.	288°28'00"	9·715	10	"
37.	72°03'00"	11·25	11·255	"	54.	336°12'50"	9·715	10	"
38.	30°02'40"	26·695	29·645	18·675	55.	28°11'00"	11·32	11·79	"
39.	181°06'40"	18·75	19	33·675	56.	20°42'40"	15·16	16·185	13
40.	203°40'30"	7·665	7·68	"	57.	340°03'20"	15·148	15·495	88·975
41.	250°26'10"	5·445	5·45	"	58.	326°32'00"	26·4	26·5	"

DP 776426

Registered: 18.7.1988

This is sheet 4 of my plan in 4 sheets dated 20/6/88

Paul M Daly

Surveyor registered under Surveyors Act 1929.

This is sheet of the plan of Sheets covered by my Certificate No. of

Council Clerk

Signatures and seals only.

Reduction Ratio 1: 1000

Lengths are in metres

Plan Drawing only to appear in this space

SURVEYOR'S REFERENCE. 84/304

This negative is a photograph made as a permanent record of a document in the custody of the Registrar General this day.

18th July, 1988

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

Req:R936323 /Doc:DP 0776426 P /Rev:29-Jun-1992 /NSW LRS /Pgs:ALL /Prt:21-Aug-2024 09:07 /Seq:4 of 4
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InfoTrack
Req:R936322 /Doc:DP 0253678 P /Rev:24-Jun-1992 /NSW LRS /Pgs:ALL /Prt:21-Aug-2024 09:07 /Seq:1 of 2
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PLAN FORM 2

Plan Drawing only to appear in this space

* OFFICE USE ONLY

D. P. 253678

Registered: 10-1-1978

Title System: OLD SYSTEM

Purpose: PA.52850|1|2|3

Ref. Map: U7352-6# U8252-4#

Last Plan: WELLS(207)

PLAN

OF PART LOTS 6, 7 & 8 OF THE MORPHETT ESTATE AND PART LOT 15 OF THE ERSKINE PARK ESTATE AND PART PORTION 44.

Reduction Ratio 1: 4000

Lengths are in metres.

~~Municipality~~ City: PENRITH

Locality: ROPES CREEK

Parish: MELVILLE

County: CUMBERLAND

This is sheet 1 of my plan in 2 * sheets.
(Delete if inapplicable).

I, MICHAEL C. WHELAN
of R.N.GRINSELL & JOHNS P/L 49 STANLEY ST BANKSTOWN
a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that the survey represented in this plan
is accurate and has been made ~~*(1) by me (2) under my immediate supervision in accordance with the Survey Practice Regulations, 1933,~~ and was completed on 1
17th SEPTEMBER 1975

Signature: [signature]

Surveyor registered under Surveyors Act, 1929, as amended.
*Strike out either (1) or (2). †Insert date of survey.

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

Signatures and seals only.

THE COMMON SEAL of RAY FITZPATRICK PTY LIMITED was hereunto affixed with the authority of the Directors in the presence of:

SECRETARY

DIRECTOR

DIRECTOR

"A-B" 358°40' 10" BY F.P. 162129
573.14

358°40' 10"
573.475 BY ME

APPN 14321

D.P. 578786

D.P. 253678

MORPHETT ESTATE

RESERVE ROAD (NOT FORMED)

RESERVE ROAD (NOT FORMED)

ROPES CREEK LANE

LEGNORE LANE

F.P. 162129

APPN 10612

SEE DIAG 'A'

SEE DIAG 'B'

SHEET

ADJOINS

16.6 ha.

14.59 ha.

15.26 ha (= 4650m² O.A.)

CREEK TRAVERSE

No	BRG	DIST.
1	87° 27' 44"	28.62
2	128° 25' 10"	71.78
3	128° 46' 00"	73.63
4	142° 10' 10"	59.57
5	166° 50' 40"	44.649
10	291° 10' 00"	23.73

DIAGRAM 'A'
NOT TO SCALE

DIAGRAM 'B'
NOT TO SCALE

Council Clerk's Certificate

I hereby certify that –

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

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

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

Subdivision No. .....

Date .....

(Signature) .....
Council Clerk

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

M.P.D.

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

SURVEYOR'S REFERENCE: 5.315 B

I, Bruce Richard Davies, Registrar General for New South Wales, certify that this negative is a photograph made as a permanent record of a document in my custody this 17th day of January, 1978

D.P. 253678 S1

D.P. 523918 S1

Req:R936322 /Doc:DP 0253678 P /Rev:24-Jun-1992 /NSW LRS /Pgs:ALL /Prt:21-Aug-2024 09:07 /Seq:2 of 2
© Office of the Registrar-General /Src:InfoTrack /Ref:78 Lockwood Road? Erskine Park

PLAN FORM 3 To be used in conjunction with Plan Form 2

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

• OFFICE USE ONLY

D.P. 253678

Registered: 10-1-1978

This is sheet 2 of my plan in 2 sheets dated

Surveyor registered under Surveyors Act 1929.

This is sheet . of the plan of Sheets covered by my Certificate No. of

Council Clerk

Signatures and seals only.

THE COMMON SEAL of RAY FITZPATRICK PTY. LIMITED was hereunto affixed with the authority of the Directors in the presence of:

Secretary

DIRECTOR

DIRECTOR.

Reduction Ratio 1:4000

SURVEYOR'S REFERENCE. S. 315 B

M.P.D.

Plan Drawing only to appear in this space

SHEET 1 ADJOINS

LANE

CREEK

ERSKINE PARK ESTATE

LEONORE

D.P. 218323

D.P. 588400

M.H. D.P. 253678

10

9·09 ha (~8459m² o.a.)

9

36·08ha ~~35·87ha~~ (+2095m² o.a.)

PT. 13

AND

ROPES CREEK

GAZETTE 16-8-63

FOLIO 2705

W.D. 118

LINES FOR TRANSMISSION EASEMENTS

GAZETTE 16-10-64

GOVT (60·96 WIDE)

GOVT (30·48 WIDE)

APPN 10612

P.O.R. 77

F.P. 44632

79

GREEK TRAVERSE		
No	BRG.	DIST.
5	186° 50' 40"	44·695
6	187° 44' 20"	38·31
7	190° 00' 50"	148·259
8	177° 51' 10"	74·19
9	169° 00' 10"	71·29
10	194° 55' 10"	98·435
11	192° 31' 20"	64·19
12	225° 08' 40"	42·435
13	258° 34' 30"	65·85
14	136° 47' 55"	58·43
15	231° 46' 55"	98·47
16	170° 52' 20"	56·865
17	216° 52' 40"	53·175
18	149° 46' 10"	44·09
20	219° 07' 50"	57·43

I, Bruce Richard Davies, Registrar General for New South Wales, certify that this negative is a photograph made as a permanent record of a document in my custody this 17th day of January, 1978

Table of mm

Req:R037486 /Doc:CT 13552-152 CT /Rev:04-Mar-2011 /NSW LRS /Pgs:ALL /Prt:07-Dec-2021 12:45 /Seq:1 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:68 Lockwood Road, Erskine Park

13552/152

[redacted]FICATE OF TITLE

NEW SOUTH WALES

[redacted]AL PROPERTY ACT, 1900

[redacted]

Vo[redacted]

EDITION ISSUED

14 2 1978

13552 Fol. 152

(Page 1) Vol. .....

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

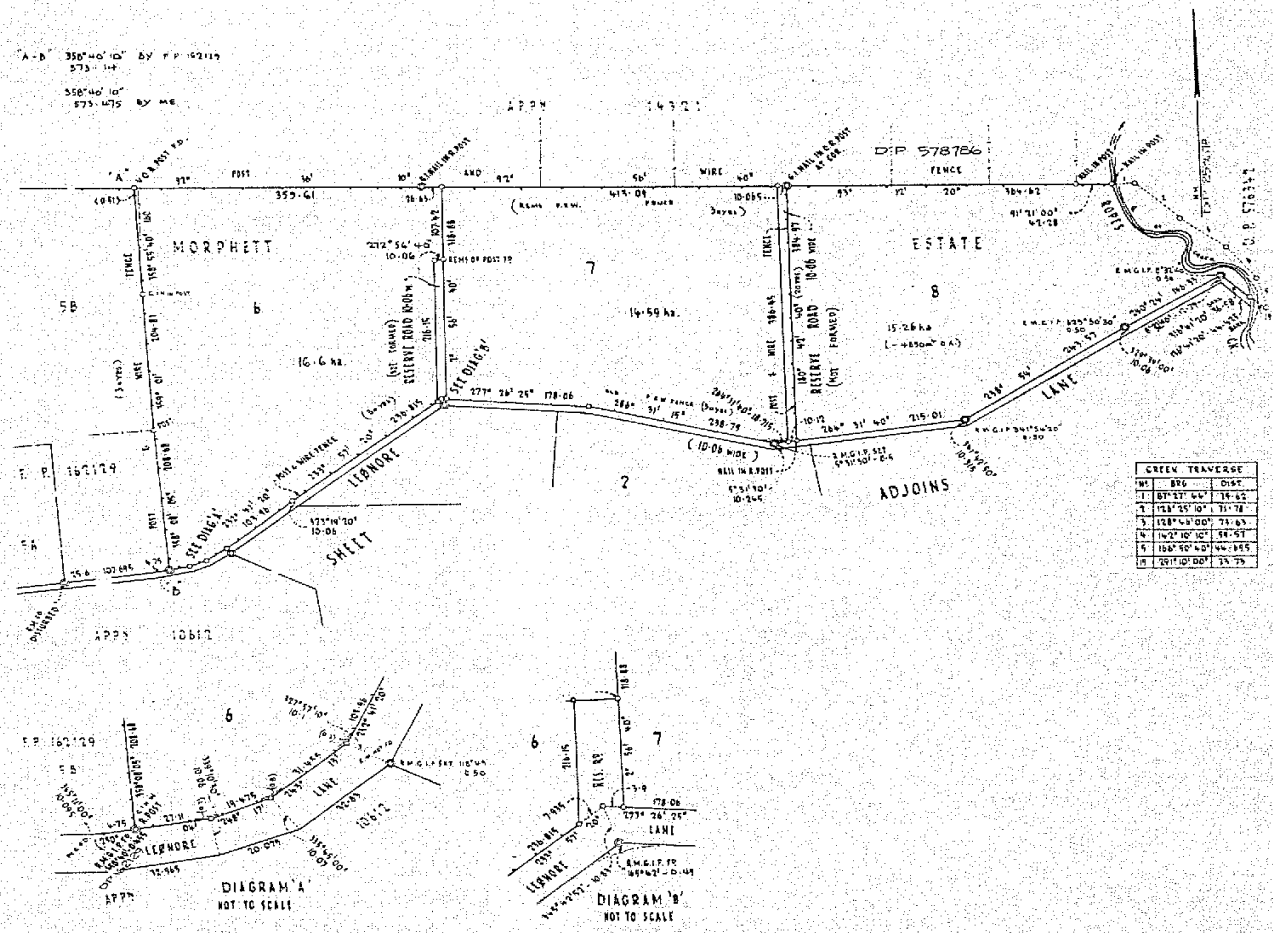
CANCELLED

Registrar General.

SEE AUTO FOLIO

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in [redacted]8 at Ropes Creek in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 44 granted to James Erskine on 8-5-1818.

FIRST SCHEDULE

~~RAY FITZPATRICK PTY. LIMITED~~.

SECOND SCHEDULE

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

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.
PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON
NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

Req:R037486 /Doc:CT 13552-152 CT /Rev:04-Mar-2011 /NSW LRS /Pgs:ALL /Prt:07-Dec-2021 12:45 /Seq:2 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:68 Lockwood Road, Erskine Park

A470498 T

Vol. 13552 Fol. 152

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar General
[redacted]	[redacted]				

SECOND SCHEDULE (continued)

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

(Page 2 of 2 pages)

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

Req:R037488 /Doc:CT 13552-151 CT /Rev:04-Mar-2011 /NSW LRS /Pgs:ALL /Prt:07-Dec-2021 12:45 /Seq:1 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:68 Lockwood Road, Erskine Park

13552151

[redacted]FICATE OF TITLE

NEW SOUTH WALES

[redacted]AL PROPERTY ACT, 1900

[redacted]L

V[redacted]1

13552 Fol. 151

(Page 1) Vol.

EDITION ISSUED

14 2 1978

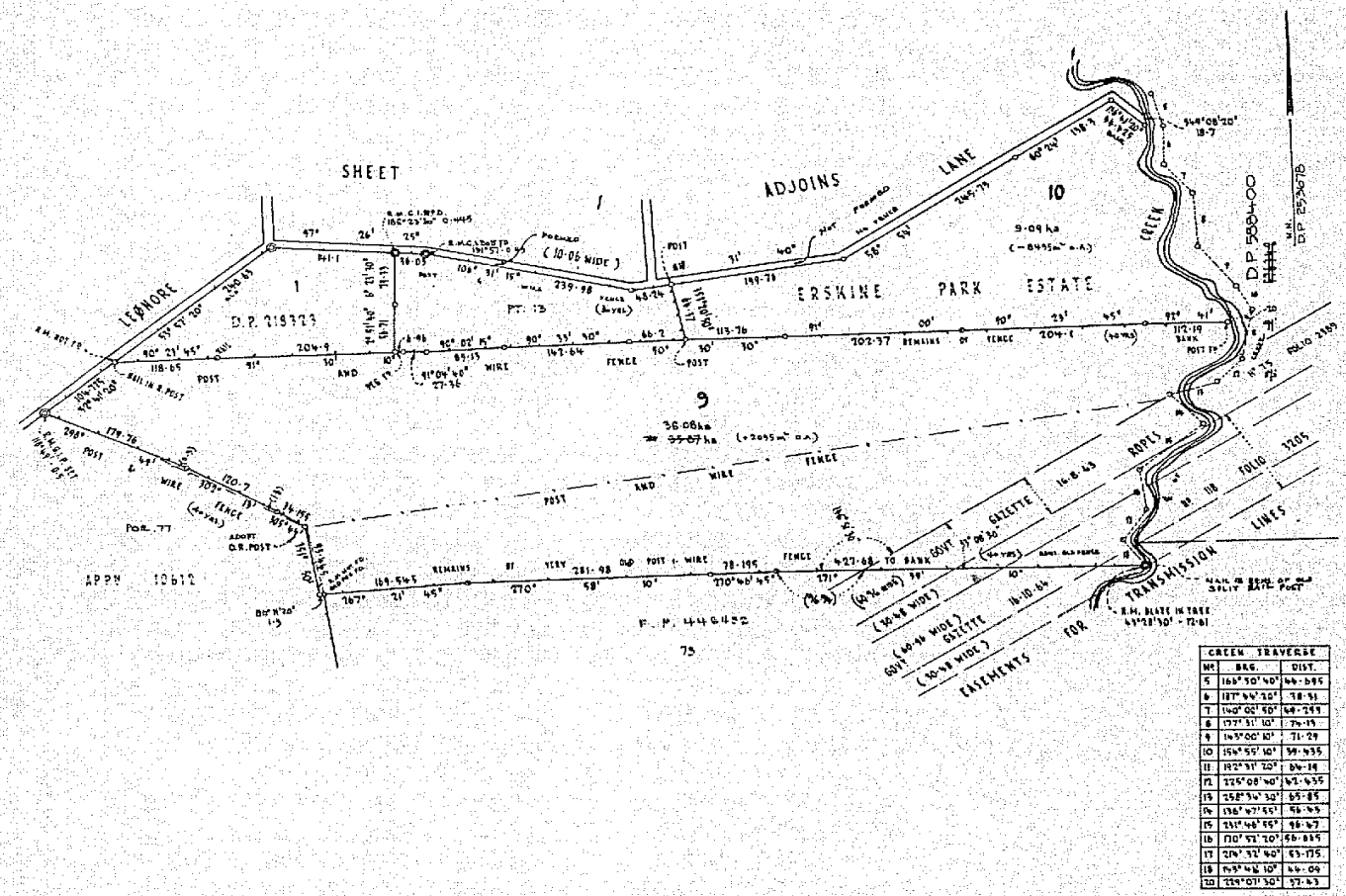
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

Registrar General.

PLAN SHOWING LOCATION OF LAND SEE AUTO FOLIO

LENGTHS ARE IN METRES



GREEN TRAVERSE		
No	BRG.	DIST.
5	168° 30' 40"	44-585
6	187° 44' 30"	58-51
7	140° 00' 50"	68-749
8	177° 31' 10"	70-15
9	149° 00' 10"	71-29
10	154° 55' 10"	59-935
11	192° 31' 20"	64-14
12	226° 08' 40"	62-435
13	258° 34' 30"	65-85
14	138° 47' 55"	48-69
15	231° 48' 55"	48-67
16	110° 32' 20"	66-815
17	206° 32' 40"	63-175
18	193° 48' 10"	44-09
20	229° 01' 30"	57-43

S

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in [redacted]3 at Ropes Creek in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 44 granted to James Erskine on 8-5-1818.

FIRST SCHEDULE

R[redacted]).

SECOND SCHEDULE

GR4 1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

RO 2/62 NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

R4704987

Vol. 13552 Fol. 151

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar General
[redacted]	[redacted]				

SECOND SCHEDULE (continued)

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

(Page 2 of 2 pages)

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

Req:R037488 /Doc:CT 13552-151 CT /Rev:04-Mar-2011 /NSW LRS /Pgs:ALL /Prt:07-Dec-2021 12:45 /Seq:2 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:68 Lockwood Road, Erskine Park

Req:R037487 /Doc:CT 13552-148 CT /Rev:04-Mar-2011 /NSW LRS /Pgs:ALL /Prt:07-Dec-2021 12:45 /Seq:1 of 2
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13552148

FICATE OF TITLE

NEW SOUTH WALES

AL PROPERTY ACT, 1900

Vo[redacted]

EDITION ISSUED

14 2 1978

(Page 1) Vol. 13552 Fol. 148

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

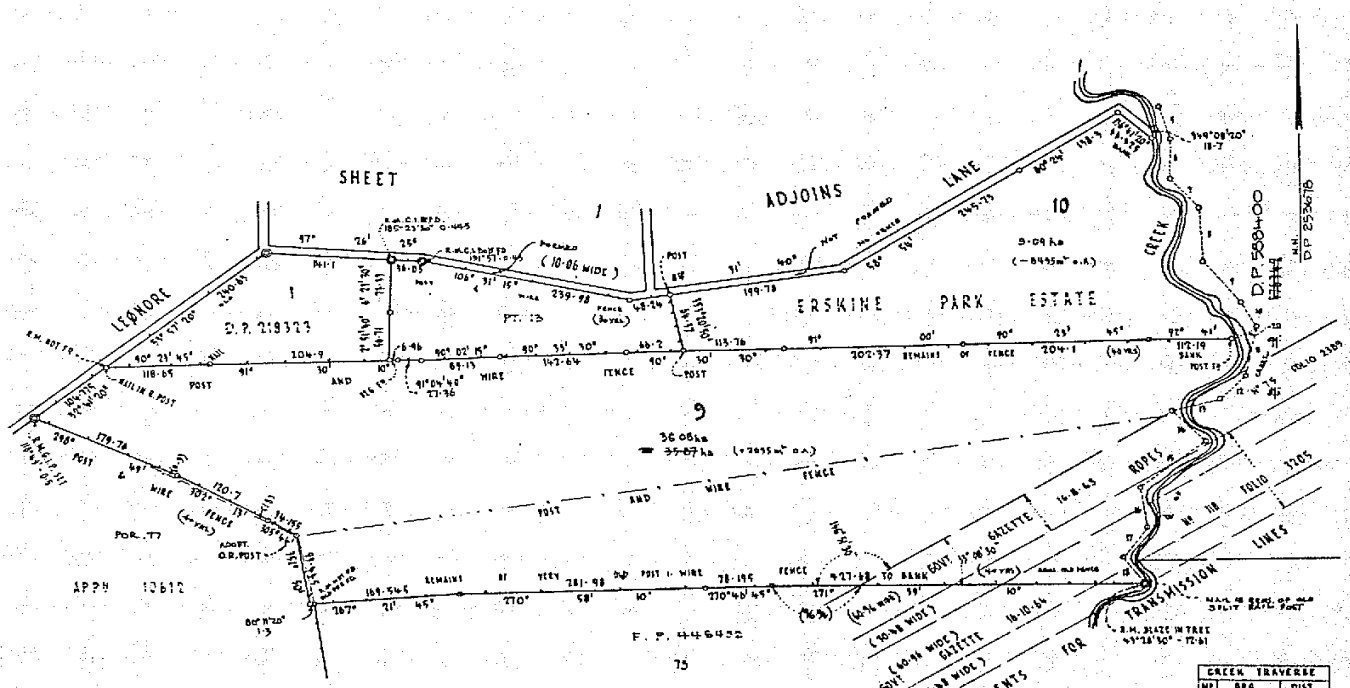
CANCELLED

Registrar General.

SEE AUTO FOLIO

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



CREEK TRAVERSE		
No	BRG.	DIST.
5	166° 30' 40"	44.889
6	187° 44' 30"	38.31
7	140° 00' 50"	48.249
8	177° 31' 10"	74.15
9	149° 00' 10"	71.29
10	154° 55' 10"	98.495
11	192° 31' 20"	84.19
12	225° 08' 40"	82.435
13	258° 34' 30"	85.85
14	156° 47' 50"	58.45
15	231° 46' 55"	98.47
16	170° 51' 20"	66.884
17	219° 52' 40"	69.176
18	193° 46' 10"	44.09
20	224° 07' 50"	57.93

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in [redacted] at Ropes Creek in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 44 granted to James Erskine on 8-5-1818.

FIRST SCHEDULE

[redacted].

SECOND SCHEDULE

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

EA(SB) 2. Notification in Government Gazette dated 16-8-1963 Folios 2387/9. Easement for transmission line affecting the part of the land above described shown so burdened in Deposited Plan 253678.

EA(SB) 3. Notification in Government Gazette dated 16-10-1964 Folios 3203/5. Easement for transmission line affecting the part of the land above described shown so burdened in Deposited Plan 253678.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

RG 2/02 NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

R470498

Vol. 13552 Fol. 148

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar General
[redacted]d.	T[redacted]9.				

SECOND SCHEDULE (continued)

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

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

Req:R037487 /Doc:CT 13552-148 CT /Rev:04-Mar-2011 /NSW LRS /Pgs:ALL /Prt:07-Dec-2021 12:45 /Seq:2 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:68 Lockwood Road, Erskine Park

Req:R114542 /Doc:PA 082576 PA /Rev:20-Mar-2009 /NSW LRS /Pgs:ALL /Prt:22-Dec-2021 10:14 /Seq:1 of 3
© Office of the Registrar-General /Src:INFOTRACK /Ref:68 Lockwood Road, Erskine Park

PRIMARY APPLICATION	Form: 00PA	Lea
New South Wales	Licence: 98M111	left-
Section 14 Real Property Act 1900	Edition: 0712	*This*

PA82576D

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

NEW SOUTH WALES DUTY
23-01-2009 0005280848-001
TRANSFER- TRANSFER
DUTIABLE AMOUNT $ **********575,000.00
DUTY **********3,65[illegible]

(A) **LODGED BY**

Document Collection Box	Name, Address or DX, Telephone, and LLPN if any	Reference (optional):
	CLARK MC NAMARA LAWYERS LEVEL 17, 1 MARKET ST. SYDNEY NSW 2000 TEL: 02 9299 2223 FAX: 02 9299 2224	CXC:ADC: 24774

(B) **A[redacted]IT**

[redacted]

applies to have the land described below brought under the provisions of the Real Property Act 1900:

(C) **LAND**

all that piece of land situated at ERSKINE PARK in the County of CUMBERLAND
Parish of MELVILLE being [redacted]
("the land")

(D) **REGISTERED PROPRIETOR**

and requests that the folio of the Register issue in the name of

FITZPATRICK INVESTMENTS PTY LIMITED

(E) **TENANCY**

CAUTION: SEVERE PENALTIES ARE PROVIDED FOR PROCURING A CERTIFICATE OF TITLE THROUGH FRAUD

(F) **STATUTORY DECLARATION*** In support of this application I/we RAE EDWINA COTTLE, DIRECTOR OF FITZPATRICK INVESTMENTS PTY LTD solemnly and sincerely declare that—

1. The applicant is seised of
   (a) ~~an estate in fee simple in the land~~.
   (b) possession of the land.
   (c) ~~a life estate in the land.~~
2. There is no person in possession or occupation of the land or any part of it adversely to the estate or interest of the applicant.
3. The land is now ~~unoccupied~~ / occupied by the persons specified in Schedule 1.
4. There is no lease or agreement for lease of the land for any term exceeding 1 year, or from year to year, except as set out in Schedule 1.
5. There is no right of way, right of drainage or other easement or any restrictive covenant affecting the land except as set out in Schedule 1.
6. There is no mortgage, lien, writ of execution, order, charge, encumbrance, will, settlement, deed, writing, contract or dealing giving any right, claim or interest in the land or any part of it to any person other than the applicant except as set out in Schedule 1; nor to the best of my knowledge and belief is there any action, proceeding or suit pending which affects or could affect the land or any person other than the applicant who has or claims any estate, right title or interest in the land except as set out in Schedule 1.
7. There is no resumption or instrument whereby minerals or substrata have been excepted or reserved to any person except as set out in Schedule 1.
8. Schedule 2 contains a full and correct list of all settlements, deeds, documents, instruments, maps, plans and papers relating to the land so far as I have any means of ascertaining them; all such documents as are in my possession or under my control are lodged herewith; the whereabouts of all other documents listed, so far as is known to me, is stated in the list.

continued on page 2

ALL HANDWRITING MUST BE IN BLOCK CAPITALS.

A set of instructions for completing this form is available from the Department of Lands, Land and Property Information Division.

Req:R114542 /Doc:PA 082576 PA /Rev:20-Mar-2009 /NSW LRS /Pgs:ALL /Prt:22-Dec-2021 10:14 /Seq:2 of 3
© Office of the Registrar-General /Src:INFOTRACK /Ref:68 Lockwood Road, Erskine Park

9. The applicant is not bankrupt nor has the applicant assigned his / her / their estate for the benefit of creditors: if the applicant is a corporation, the corporation has not appointed a liquidator.
10. The information set out in Schedules 1 and 2 is to be taken as part of this declaration.
11. Searches and enquiries for those documents shown as "whereabouts unknown" and numbered ~~N/A~~ 2, 3, 4 in the List of Documents in Schedule 2 have been made at the premises of the applicant, previous and present lending institutions, solicitors and agents, and have not been lodged with any person as security for a loan or for any purpose whatsoever.

I/We make this solemn declaration conscientiously believing the same to be true and by virtue of the Oaths Act 1900;
I/We certify this application correct for the purposes of the Real Property Act 1900; and
I/We undertake to notify the Registrar General promptly of any further interest in the land created after the making of this declaration and before issue of the certificate of title.*

Made and subscribed at SYDNEY in the State of NSW
on 3RD OCTOBER 2008 in the presence of—

Signature of witness: ..... Signature of declarant: .....

Name of witness: CHI CHAU

Address of witness: LVL 17, 1 MARKET ST SYD NSW

Qualification of witness: *[tick one]*

- ☐ Justice of the Peace
- ☑ Practising Solicitor
- ☐ Other qualified witness *[specify]* .....

(G) **CONSENT OF MORTGAGEE**

..... being the mortgagee
under mortgage Book ..... Number ..... joins in and consents to this application subject to—

i. the entry on the folio of the Register to be created and on the certificate of title to issue of a notification relating to the above mortgage; and
ii. delivery of the certificate of title to me.

Signature of witness: ..... Signature of declarant: .....

Name of witness: .....

Address of witness: .....

(H) **SCHEDULE 1 particulars of subsisting interests**

Full name and address of the occupier, lessee, mortgagee, etc	Nature of the entitlement e.g. occupier, lessee	Particulars of the instrument, if any, by which the entitlement was created
FITZPATRICK INVESTMENTS P/L	OCCUPIER	N/A

* As the Department of Lands may not be able to provide the services of a justice of the peace or other qualified witness, the statutory declaration should be signed and witnessed prior to lodgment of the form at Land and Property Information Division.

Req:R114542 /Doc:PA 082576 PA /Rev:20-Mar-2009 /NSW LRS /Pgs:ALL /Prt:22-Dec-2021 10:14 /Seq:3 of 3
© Office of the Registrar-General /Src:INFOTRACK /Ref:68 Lockwood Road, Erskine Park

(I) **SCHEDULE 2**

(a) Location of documents referred to in List of Documents

Lodged herewith:	Document numbers ~~N/A~~ 5, 6, 7	
Whereabouts unknown: (see clause 11 on page 2)	Document numbers ~~N/A~~ 2, 3, 4.	
Permanently lodged:	Document numbers ~~N/A~~ 1.	Receipt numbers 320 $
To be lodged:	Document numbers N/A	To be lodged by

(4000) 176971 9

(b) List of Documents list each chain of title separately; the schedule should commence from a good root of title

No.	Date	Nature of Document	Parties	General Register Book	General Register No.
			DOCUMENTARY TITLE		
[redacted]					
			EVIDENCE RELIED ON		
5.	3/10/08	STATUTORY DECLARATION	DECLARANT - RATE EDWINA COTTLE.		
6.	18/9/08	SEARCH REPORT	BY PETER S. HOPLEY PTY LTD.		
7.	22/12/08	STATUTORY DECLARATION	DECLARANT - ROBERT ANDERSON		

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
21/8/2024 9:02AM

FOLIO: 3/1253870

First Title(s): VOL 6887 FOL 107 OLD SYSTEM
Prior Title(s): 2/1215268

Recorded	Number	Type of Instrument	C.T. Issue
15/4/2020	DP1253870	DEPOSITED PLAN	FOLIO CREATED EDITION 1
23/4/2020	AQ53736	DEPARTMENTAL DEALING	
23/4/2020	AQ56212	DEPARTMENTAL DEALING	EDITION 2
28/9/2020	AQ426427	DEPARTMENTAL DEALING	
1/10/2020	DP1261354	DEPOSITED PLAN	FOLIO CANCELLED RESIDUE REMAINS

*** END OF SEARCH ***

InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Received: 21/08/2024 09:02:51

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
21/8/2024 9:02AM

FOLIO: 10/1261354

First Title(s): VOL 6887 FOL 107 OLD SYSTEM
Prior Title(s): 3/1253870

Recorded	Number	Type of Instrument	C.T. Issue
1/10/2020	DP1261354	DEPOSITED PLAN	FOLIO CREATED EDITION 1
15/12/2020	DP1261030	DEPOSITED PLAN	FOLIO CANCELLED RESIDUE REMAINS
30/3/2021	AQ786802	RELEASE OR EXTINGUISHMENT OF POSITIVE COVENANT	
30/3/2021	AQ786806	RELEASE OR EXTINGUISHMENT OF RESTRICTION ON THE USE OF LAND	
30/3/2021	AQ877597	REQUEST	
30/3/2021	AQ877598	REQUEST	

*** END OF SEARCH ***

InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Received: 21/08/2024 09:02:34

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
21/8/2024 9:01AM

FOLIO: 1/1261030

First Title(s): VOL 6887 FOL 107 OLD SYSTEM
Prior Title(s): 10/1261354

Recorded	Number	Type of Instrument	C.T. Issue
15/12/2020	DP1261030	DEPOSITED PLAN	FOLIO CREATED EDITION 1
8/2/2021	DP1270382	DEPOSITED PLAN	
16/2/2021	AQ802763	DEPARTMENTAL DEALING	
21/4/2021	AQ889589	TRANSFER GRANTING EASEMENT	EDITION 2
18/5/2021	AR51887	RELEASE OR EXTINGUISHMENT OF RESTRICTION ON THE USE OF LAND	
18/5/2021	AR51888	RELEASE OR EXTINGUISHMENT OF POSITIVE COVENANT	
19/5/2021	DP1268632	DEPOSITED PLAN	FOLIO CANCELLED RESIDUE REMAINS

*** END OF SEARCH ***

InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Received: 21/08/2024 09:01:41

LAND REGISTRY SERVICES Historical Search

InfoTrack

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

21/8/2024 9:01AM

FOLIO: 101/1268632

First Title(s): OLD SYSTEM
Prior Title(s): 1/1261030

Recorded	Number	Type of Instrument	C.T. Issue
19/5/2021	DP1268632	DEPOSITED PLAN	FOLIO CREATED EDITION 1
10/6/2021	AR130001	CAVEAT	
25/6/2021	AR181305	WITHDRAWAL OF CAVEAT	
25/6/2021	AR181306	TRANSFER	EDITION 2
30/11/2023	AT526702	REQUEST	
30/11/2023	AT642216	REQUEST	EDITION 3
1/2/2024	AT664912	REQUEST	EDITION 4
2/4/2024	AT941968	TRANSFER	
2/4/2024	AT941969	MORTGAGE	EDITION 5

*** END OF SEARCH ***

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Received: 21/08/2024 09:01:14

Req:R936255 /Doc:DL AR181306 /Rev:25-Jun-2021 /NSW LRS /Prt:21-Aug-2024 09:01 /Seq:1 of 2
© Office of the Registrar-General /Src:InfoTrack /Ref:78 Lockwood Road, Erskine Park

System Document Identification

Form Number: 01T-e
Template Number: t_nsw18
ELN Document ID: 558067607
ELN NOS ID: 558067608

TRANSFER

New South Wales
Real Property Act 1900

Land Registry Document Identification

AR181306

Stamp Duty: 10126103-001

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

LODGED BY:

Responsible Subscriber: NORTON ROSE FULBRIGHT AUSTRALIA ABN 32720868049
Address: L 6, 60 Martin PL
Sydney 2000
Email: john.johnson@nortonrosefulbright.com
ELNO Subscriber Number: 2209
Customer Account Number: 500551
Document Collection Box: 795D
Client Reference: 201807/RJS (DRT

LAND TITLE REFERENCE

101/1268632

TRANSFEROR

FITZPATRICK INVESTMENTS PTY LTD ACN 001662862
Registered company

TRANSFEREE

DIGITAL ERSKINE PARK 4 LLC ARBN 636128473
Registered Australian body or foreign company

Tenancy: Sole Proprietor

CONSIDERATION

The transferor acknowledges receipt of the consideration of $97,708,600.00

ESTATE TRANSFERRED

FEE SIMPLE

The Transferor transfers to the Transferee the Estate specified in this Instrument and acknowledges receipt of any Consideration shown.

SIGNING FOR TRANSFEROR

I certify that:

1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.
2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
3. The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
4. The Certifier has taken reasonable steps to verify the identity of the transferor or his, her or its administrator or attorney.

Party Represented by Subscriber:

FITZPATRICK INVESTMENTS PTY LTD

Signed By: Ming Hua Ho
Signer Capacity: Practitioner Certifier
ELNO Signer Number: 3948584
Digital Signing Certificate Number:

Signed for Subscriber: PARTNERS OF HICKSONS ABN 58215418381

HICKSONS

© Office of the Registrar-General /Src:InfoTrack /Ref:78 Lockwood Road, Erskine Park

Subscriber Capacity: Representative Subscriber
ELNO Subscriber Number: 10499 **Customer Account Number:** 501521
Date: 25/06/2021

SIGNING FOR TRANSFEREE

I certify that:

1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.
2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
3. The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
4. The Certifier has taken reasonable steps to verify the identity of the transferee or his, her or its administrator or attorney.

Party Represented by Subscriber:

DIGITAL ERSKINE PARK 4 LLC

Signed By: Duncan Webber **Signer Capacity:** Practitioner Certifier
ELNO Signer Number: 59754 **Digital Signing Certificate Number:**

Signed for Subscriber: PARTNERS OF NORTON ROSE FULBRIGHT AUSTRALIA ABN 32720868049

NORTON ROSE FULBRIGHT AUSTRALIA

Subscriber Capacity: Representative Subscriber
ELNO Subscriber Number: 2209 **Customer Account Number:** 500474
Date: 25/06/2021

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 101/1268632

SEARCH DATE	TIME	EDITION NO	DATE
21/8/2024	9:00 AM	5	2/4/2024

LAND

LOT 101 IN DEPOSITED PLAN 1268632
AT ERSKINE PARK
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1268632

FIRST SCHEDULE

LPAC AU SUBCO PTY LTD (T AT941968)

SECOND SCHEDULE (32 NOTIFICATIONS)

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1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 AB35355 EASEMENT FOR OVERHEAD POWER LINE(S) 35 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
3 DP1186190 EASEMENT TO PERMIT ENCROACHING STRUCTURE TO REMAIN 0.5 METRE(S) WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED
4 DP1186190 EASEMENT FOR MAINTENANCE 1.8 METRE(S) WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED
5 AP921615 RESTRICTION(S) ON THE USE OF LAND
6 AP921616 POSITIVE COVENANT
7 DP1253870 EASEMENT TO DRAIN WATER 7.6 METRE(S) WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED
8 DP1253870 EASEMENT TO DRAIN WATER 6.2 METRE(S) WIDE AND VARIABLE WIDTH (LIMITED IN STRATUM) APPURTENANT TO THE LAND ABOVE DESCRIBED
9 DP1253870 EASEMENT TO DRAIN WATER 11.75 METRE(S) WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED
10 DP1253870 RIGHT OF CARRIAGEWAY 9.5 METRE(S) WIDE APPURTENANT TO THE LAND ABOVE DESCRIBED
11 DP1253870 RESTRICTION(S) ON THE USE OF LAND REFERRED TO AND NUMBERED (9) IN THE S.88B INSTRUMENT
12 DP1253870 POSITIVE COVENANT REFERRED TO AND NUMBERED (10) IN THE S.88B INSTRUMENT
13 DP1253870 EASEMENT TO DRAIN WATER VARIABLE WIDTH APPURTENANT TO THE LAND ABOVE DESCRIBED
14 AQ889589 EASEMENT FOR UNDERGROUND CABLES 9 METRE(S) WIDE AND VARIABLE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM

END OF PAGE 1 - CONTINUED OVER

SECOND SCHEDULE (32 NOTIFICATIONS) (CONTINUED)

15	DP1268632	EASEMENT TO DRAIN WATER 8.8 METRE(S) WIDE AND VARIABLE WIDTH AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
16	DP1268632	EASEMENT TO DRAIN WATER 8.8 METRE(S) WIDE AND VARIABLE WIDTH APPURTENANT TO THE LAND ABOVE DESCRIBED
17	DP1268632	EASEMENT TO DRAIN WATER VARIABLE WIDTH REFERRED TO AND NUMBERED (2) IN THE S.88B INSTRUMENT APPURTENANT TO THE LAND ABOVE DESCRIBED
18	DP1268632	EASEMENT TO DRAIN WATER VARIABLE WIDTH REFERRED TO AND NUMBERED (3) IN THE S.88B INSTRUMENT AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
19	DP1268632	EASEMENT TO DRAIN WATER VARIABLE WIDTH REFERRED TO AND NUMBERED (3) IN THE S.88B INSTRUMENT APPURTENANT TO THE LAND ABOVE DESCRIBED
20	DP1268632	EASEMENT TO DRAIN WATER VARIABLE WIDTH REFERRED TO AND NUMBERED (4) IN THE S.88B INSTRUMENT APPURTENANT TO THE LAND ABOVE DESCRIBED
21	DP1268632	EASEMENT TO DRAIN WATER 3.5 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
22	DP1268632	EASEMENT TO DRAIN WATER 3 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
23	DP1268632	RESTRICTION(S) ON THE USE OF LAND REFERRED TO AND NUMBERED (7) IN THE S.88B INSTRUMENT AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
24	DP1268632	POSITIVE COVENANT REFERRED TO AND NUMBERED (8) IN THE S.88B INSTRUMENT AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
25	DP1268632	RESTRICTION(S) ON THE USE OF LAND REFERRED TO AND NUMBERED (9) IN THE S.88B INSTRUMENT AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
26	DP1268632	POSITIVE COVENANT REFERRED TO AND NUMBERED (10) IN THE S.88B INSTRUMENT AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
27	DP1268632	RIGHT OF ACCESS VARIABLE WIDTH REFERRED TO AND NUMBERED (11) IN THE S.88B INSTRUMENT AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
28	DP1268632	RIGHT OF ACCESS VARIABLE WIDTH REFERRED TO AND NUMBERED (11) IN THE S.88B INSTRUMENT APPURTENANT TO THE LAND ABOVE DESCRIBED
29	DP1268632	POSITIVE COVENANT REFERRED TO AND NUMBERED (12) IN THE S.88B INSTRUMENT
30	DP1268632	RIGHT OF ACCESS VARIABLE WIDTH REFERRED TO AND NUMBERED (13) IN THE S.88B INSTRUMENT AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
31	DP1268632	RIGHT OF ACCESS VARIABLE WIDTH REFERRED TO AND NUMBERED (13) IN THE S.88B INSTRUMENT APPURTENANT TO

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FOLIO: 101/1268632 PAGE 3

SECOND SCHEDULE (32 NOTIFICATIONS) (CONTINUED)

THE LAND ABOVE DESCRIBED

32 AT941969 MORTGAGE TO AUSTRALIA AND NEW ZEALAND BANKING GROUP LIMITED

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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

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Appendix E

Site Photographs

Appendix E1

Site Photographs – July 2024



Photograph 1: Entrance to site at the eastern end of Lockwood Road.



Photograph 2: The western site boundary indicated by the metal mesh fence.

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	1
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 3: Condition of the site looking west.



Photograph 4: Spoils generated from the excavation and construction of a retaining wall on the boundary of the neighbouring site.

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	2
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 5: Drainage ditch south of the northern bund, facing west.



Photograph 6: The drainage ditch south of the northern bund, facing east.

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	3
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 7: Crest of the northern bund bordering Lenore Drive, looking east.



Photograph 8: Condition of the site looking north.

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	4
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 9: Crest of northern bund adjacent to Lenore Drive, looking west.



Photograph 10: Condition of the site along the northern boundary, looking west.

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	5
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 11: Condition of the site along the eastern boundary, looking north-west.



Photograph 12: Sediment trap along the eastern boundary bordering the artificial wetland.

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	6
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 13: The artificial wetland to the east of the site.



Photograph 14: Southern boundary and drainage / stormwater ditch, looking west.

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	7
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 15: The soil profile of TP201. A thin layer of fill overlying possible alluvial and then residual clays.



Photograph 16: The soil profile of TP205. A thin layer of fill overlying possible alluvial and then residual clays.

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	8
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 17: Typical soil profile northern bund (TP208).



Photograph 18: The soil profile in TP209 in the northern bund with irrigation hoses and timber observed.

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	9
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 19: Spoil returns from TP216.



Photograph 20: Possible former topsoil layer at depth overlying alluvial clays (TP217).

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	10
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 21: Typical soil profile observed, reworked silty clays over alluvial clay in TP219.



Photograph 22: TP229 in the northern bund.

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	11
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 23: Wood chips and timber fragments at location TP231.



Photograph 24: The soil profile of TP232. This profile was common across the building pad.

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	12
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 25: Suspected historical topsoil material (right) compared with natural alluvial clay (left) within TP247.



Photograph 26: Surficial soils were scraped back initially to assist with observations for potential ACM below light vegetation in the surface soils.

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	13
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 27: TP249 soil profile.



Photograph 28: Test pits backfilled upon completion.

Site Photographs (July 2024)		PROJECT:	207476.11
Detailed Site Investigation		PLATE No:	14
78 Lockwood Road, Erskine Park		REV:	0
CLIENT	Stack Infrastructure Australia		



Photograph 29: Fly tipping at the northern boundary of the site.



Photograph 30: Ceramic tiles were observed randomly scattered on the surface across large sections of the site (and property).

Douglas PARTNERS	**Site Photographs (July 2024)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	15
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	

Appendix E2

Site Photographs – June 2025



Photograph 1: Warehouse completed to the west of the site, facing north.



Photograph 2: General site condition, facing south-east.

Douglas PARTNERS	**Site Photographs (June 2025)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	1
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 3: General site condition, facing east from top of bund.



Photograph 4: Stockpile of asphalt and concrete material.

Douglas PARTNERS	**Site Photographs (June 2025)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	2
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 5: General litter in the south-western area of the site.



Photograph 6: General litter along the western boundary of the site.

Douglas PARTNERS	**Site Photographs (June 2025)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	3
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 7: Concrete rubble in the north-western corner of the site.



Photograph 8: General litter along the northern bund/property boundary adjacent to Lenore Drive.

Douglas PARTNERS	**Site Photographs (June 2025)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	4
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 9: Surface water detention basin and artificial wetland.



Photograph 10: Evidence of water runoff and erosion of soils near surface water detention basin and artificial wetland.

Douglas PARTNERS	**Site Photographs (June 2025)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	5
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 11: Stormwater drainage to the south of the site.



Photograph 12: General site condition and surrounding warehouse developments, facing south.

Douglas PARTNERS	**Site Photographs (June 2025)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	6
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	



Photograph 13: Completed warehouse developments to the west of the site, facing north.



Photograph 14: Completed warehouse development to the west of the site, facing north.

Douglas PARTNERS	**Site Photographs (June 2025)**	PROJECT:	207476.11
	Detailed Site Investigation	PLATE No:	7
	78 Lockwood Road, Erskine Park	REV:	0
	CLIENT	Stack Infrastructure Australia	

Appendix F

Data Quality Objectives

Data Quality Objectives

This detailed site (contamination) investigation (DSI) was devised broadly in accordance with the seven-step data quality objective process which is provided in Appendix B, Schedule B2 of National Environment Protection Council (NEPC), *'National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)'*, dated 2013 (NEPC, 2013).

Step	Summary
1: State the problem	The objective of the DSI was to supplement previous investigations and assess the contamination status of the site with respect to the proposed data centre development. The report was undertaken as the land is to be redeveloped. A preliminary conceptual site model (CSM) has been prepared (Section 9) for the proposed development. The project team consisted of experienced environmental engineers and scientists working in the roles of Project Principal, Project Manager and field staff.
2: Identify the decisions / goal of the study	The review of site history and results from previous investigations identified possible contaminating previous uses which are identified in the CSM (Section 9). The CSM identifies the associated contaminants of potential concern (CoPC) and the likely impacted media. The site assessment criteria (SAC) for each of the CoPC are detailed in Appendix H. The decision was to establish whether or not the results fall below the SAC. On this basis, an assessment of the site's suitability from a contamination perspective and the risk of contamination was derived and a decision made on whether (or not) further assessment and/or remediation should be considered.
3: Identify the information inputs	Inputs to the investigation were the desktop information (Sections 3 to 7) which involved in part, information on the proposed data centre development (Section 3), review of previous investigations (e.g. DP (2023a), DP (2023b), JKE (2023), etc.) including associated site history and data (and assessment of data quality) presented therein, site observations and field results (Sections 12.1) and results of the analysis (Section 13.1) of samples to measure the concentrations of CoPC identified in the CSM (Section 9) at the site using NATA accredited laboratories and methods, where possible. The SAC for each of the CoPC are detailed in Appendix H. A photoionisation detector (PID) was used on-site to screen soils for volatile organic compounds. PID readings, in conjunction with field observations and the desktop information, were used to inform sample selection for laboratory analysis.
4: Define the study boundaries	The lateral boundaries of the site (investigation) area are shown on Drawing 1, Appendix A1. The vertical boundaries are to the extent of contamination impact as determined from the site history assessment and site observations. The assessment is limited to the timeframe over which the field investigation was undertaken. Constraints to the assessment are identified and discussed in the report.

Step	Summary
5: Develop the analytical approach (or decision rule)	The decision rule is to compare all analytical results with SAC (Sections 13 and 14) based on NEPC (2013)). Where guideline values are absent, other sources of guideline values accepted by NEPC (2013) and NSW EPA were adopted where possible. In the absence of adopted guidelines, other domestic guidance and then international guidance was adopted as initially screening values. Where a sample result exceeds the adopted criterion, a further site-specific assessment was made as to the risk posed by the presence of that contaminant. SAC comparisons were with individual results then to assess potential risks posed by the site contamination. Quality control results were assessed according to their relative percent difference (RPD) values. For field replicates and laboratory results, RPDs should generally be below 30% for inorganics and 50% for organics; for field blanks, results should be at or less than the limits of reporting (NEPC, 2013). The field and laboratory quality assurance assessment is included in Appendix L.
6: Specify the performance or acceptance criteria	Baseline condition: Contaminants at the site and/or statistical analysis of data (in line with NEPC (2013)) exceed human health and environmental SAC and pose a potentially unacceptable risk to receptors (null hypothesis). Alternative condition: Contaminants at the site and statistical analysis of data (in line with NEPC (2013)) comply with human health and environmental SAC and as such, do not pose a potentially unacceptable risk to receptors (alternative hypothesis). Unless conclusive information from the collected data is sufficient to reject the null hypothesis, it is assumed that the baseline condition is true.
7: Optimise the design for obtaining data	As the purpose of the sampling program was to assess for potential contamination across the site, the sampling program is reliant on professional judgement to identify and sample the potentially affected areas and supplemented with a sampling program to provide general site coverage. Further details regarding the proposed sampling plan are presented in Section 10.

Appendix G

Fieldwork Methodology

1. Guidelines

The following key guidelines were consulted for the field work methodology:

- Heads of EPAs (HEPA), *'PFAS National Environmental Management Plan'*, Version 2.0, dated 2020 (HEPA, 2020); and
- National Environment Protection Council (NEPC), *'National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)'*, dated 2013 (NEPC, 2013).

2. Soil Sampling

Soil sampling was carried out in general accordance with Douglas Partners Pt Ltd (DP) standard operating procedures. The general sampling and sample management procedures comprised:

- Collection of soil samples directly from the excavator bucket, test pit walls (where safe to do so) and hand tools (e.g. hand auger for surface samples) at nominated sample depth;
- Transfer of samples into laboratory-prepared glass jars with Teflon lined lids by hand (separate laboratory supplied containers for per- and poly-fluoroalkyl substances (PFAS) samples), capping immediately and minimising headspace within the sample jar;
- Collection of replicate samples in zip-lock bags for screening of with a photoionsation detector (PID);
- Collection of ~500 mL soil samples in zip-lock bags for asbestos (asbestos fines / friable asbestos) analysis;
- Use of new disposable nitrile gloves for each sample point, thereby minimising the potential for cross-contamination;
- Collection of 10% replicate samples for quality control purposes;
- Labelling of sample containers with individual and unique identification details, including project number, sample location and sample depth;
- Placing samples into a cooled, insulated and sealed container for transport to the laboratory. Cooled containers not required for asbestos bag samples; and
- Use of chain of custody documentation.

2.1 Field Testing – PID Screening

Field testing was carried out in general accordance with DP's standard operating procedures. The general PID field testing comprised:

- Calibration of the PID with isobutylene gas at 100 ppm and with fresh air prior to commencement of each successive day's field work;
- Collection of replicate samples in zip-lock bags as noted above;

- Allowing the headspace in the PID zip-lock bag samples to equilibrate;
- Screening using the PID; and
- Recording the results on the test pit and borehole logs.

Calibration records are included in Appendix I3.

2.2 Field Testing – Asbestos Sieve Samples

Sieve testing for asbestos containing material (ACM) was undertaken in the field. The general sampling procedure and methodology adopted for this was as follows:

- Inspection of returns from the test pit for signs of potential ACM;
- Collection of 10 L samples from the fill at the test pit;
- Wearing of new disposable gloves for each sample thereby minimising the potential for cross-contamination;
- Weighing and recording the weight of collected samples using a high precision scale;
- Sieving of sample though a 7 mm sieve;
- Dispersing the material on a tarp that was retained on the 7 mm sieve for supplementary inspection for ACM fragments greater than 7 mm;
- Weighing and recording the condition of any ACM fragments using a high precision scale; and
- Recording of results on field sheets.

It is noted that the clay and plastic nature of the site soils precluded the sieving of some samples (or part of samples). As indicated above these retained soils on the sieve were dispersed on a tarp. This included the breaking up and inspection of clods using hands and hand tools.

Results of the field sieve testing are summarised on the field sheets in Appendix I2.

Appendix H

Site Assessment Criteria

1.0 Introduction

1.1 Guidelines

The following key guidelines were consulted for deriving the site assessment criteria (SAC):

- Cooperation Research Centre for Contamination Assessment and Remediation of the Envionment (CRC CARE), *'Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater'*, Technical Report no. 10, dated 2011 (CRC CARE, 2011);
- CRC CARE, *'Risk-based Management and Remediation Guidance for Benzo(a)pyrene'*, Technical Report no. 39, dated 2017 (CRC CARE, 2017);
- Heads of EPAs (HEPA), *'PFAS National Environmental Management Plan'*, Version 2.0, dated 2020 (HEPA, 2020); and
- National Envionment Protection Council (NEPC), *'National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)'*, dated 2013 (NEPC, 2013).

1.2 General

The SAC applied to this investigation are informed by the conceptual site model which identified human and environmental receptors to potential contamination at the site. Analytical results are assessed (as a Tier 1 assessment) against the SAC comprising primarily the investigation and screening levels of Schedule B1 of NEPC (2013).

The following inputs are relevant to the selection and/or derivation of the SAC:

- Land use: Proposed data centre development - corresponding to land use category 'D', commercial / industrial such as shops, offices, factories, warehouses and industrial sites;
- Soil type: Clay; and
- Depth: 0-1 m has been applied given that minimal earthworks are proposed to undertaken for the new development.

2.0 Soils

2.1 Health Investigation and Screening Levels

The generic health investigation levels (HIL) and health screening levels (HSL) are considered to be appropriate for the assessment of human health risk via all relevant pathways of exposure associated with contamination at the site. The adopted soil HIL and HSL for the contaminants of concern are shown in Tables 1 and 2.

Table 1: Health Investigation Levels (mg/kg)

Contaminant	HIL-D
Metals	
Arsenic	3000
Cadmium	900
Chromium (VI)	3600
Copper	240 000
Lead	1500
Mercury (inorganic)	730
Nickel	6000
Zinc	400 000
PAH	
B(a)P TEQ	40
Total PAH	4000
Phenols	
Phenol	240 000
Pentachlorophenol	660
OCP	
DDT+DDE+DDD	3600
Aldrin and dieldrin	45
Chlordane	530
Endosulfan	2000
Endrin	100
Heptachlor	50
HCB	80
Methoxychlor	2500
OPP	
Chlorpyrifos	2000
PCB	7
PFAS	
PFOA	50
PFOS	20

Table 2: Health Screening Levels (mg/kg)

Contaminant	HSL-D
CLAY	**0 m to <1 m**
Benzene	4
Toluene	NL
Ethylbenzene	NL
Xylenes	NL
Naphthalene	NL
TRH F1	310
TRH F2	NL

Notes: TRH F1 is TRH C_6-C_{10} minus BTEX

TRH F2 is TRH >C_{10}-C_{16} minus naphthalene

The soil saturation concentration (Csat) is defined as the soil concentration at which the porewater phase cannot dissolve any more of an individual chemical. The soil vapour that is in equilibrium with the porewater will be at its maximum. If the derived soil HSL exceeds Csat, a soil vapour source concentration for a petroleum mixture could not exceed a level that would results in the maximum allowable vapour risk for the given scenario. For these scenarios, no HSL is presented for these chemicals and the HSL is shown as 'not limiting' or 'NL'

The HSL for direct contact derived from CRC CARE (2011) are in Table 3.

Table 3: Health Screening Levels for Direct Contact (mg/kg)

Contaminant	DC HSL-D	DC HSL-IMW
Benzene	430	1100
Toluene	99 000	120 000
Ethylbenzene	27 000	85 000
Xylenes	81 000	130 000
Naphthalene	11 000	29 000
TRH F1	26 000	82 000
TRH F2	20 000	62 000
TRH F3	27 000	85 000
TRH F4	38 000	120 000

Notes: TRH F1 is TRH C_6-C_{10} minus BTEX

TRH F2 is TRH >C_{10}-C_{16} minus naphthalene

2.2 Asbestos in Soil

The HSL for asbestos in soil are based on likely exposure levels for different scenarios published in NEPC (2013) for the following forms of asbestos:

- Bonded asbestos containing material (ACM); and
- Asbestos fines and friable asbestos (AF and FA).

The HSL are in Table 4.

Table 4: Health Screening Levels for Asbestos

Form of Asbestos	HSL-D
ACM	0.05%
AF and FA	0.001%
AF and FA and ACM	No visible asbestos for surface soil *

Notes: Surface soils defined as top 100 mm.
* Based on site observations at the sampling points and the analytical results of surface samples.

Where analysis for the presence or absence of asbestos at a laboratory reporting limit (LRL) of 0.1 g/kg (AS:4964) was undertaken as part of previous investigations, the LRL has been adopted to assess this data for this investigation / assessment as an initial screen.

2.3 Ecological Investigation and Screening Levels

Given the industrial nature of the site's use following redevelopment as a data centre, which is anticipated to result in concrete slabs and pavements covering the vast majority of the site, the ecological value of the site post development is likely to be generally limited to the northern bund and landscaped areas which are primarily located towards the site's boundaries. Given this, ecological considerations and hence application of an ecological assessment criteria may not necessarily be applicable, or at least not applicable to the majority of the site. Notwithstanding, for completeness of the investigation, consideration of ecological receptors and hence generation of associated assessment criteria has been undertaken, as outlined below.

2.3.1 Ecological Investigation Levels

Ecological investigation levels (EIL) and added contaminant limits, where appropriate, have been derived in NEPC (2013) for arsenic, copper, chromium (III), nickel, lead, zinc, DDT and naphthalene. The adopted EIL were also derived using the interactive (excel) calculation spreadsheet on the NEPM toolbox website are shown in Table 6, with inputs into their derivation shown in Table 5.

Table 5: Inputs to the Derivation of the Ecological Investigation Levels

Variable	Input	Rationale
Age of contaminants	"Aged" (>2 years)	Based on site history review.
Organic carbon	1 %	Assumed, based on typical values.
pH	5.97	Average of laboratory results from across the site. Note: includes results from DP (2023b)
CEC	10.83 $cmol_c/kg$	
Clay content	10%	Conservative value used as an initial screen noting soils predominately logged as clay.
Traffic volumes	High	Site locality.
State / Territory	NSW	

Table 6: Ecological Investigation Levels (mg/kg)

Contaminant	EIL-D
Metals	
Arsenic	160
Copper	300
Nickel	310
Chromium III	680
Lead	1800
Zinc	730
PAH	
Naphthalene	370
OCP	
DDT	640

2.3.2 Ecological Screening Levels

Ecological screening levels (ESL) are used to assess the risk of selected petroleum hydrocarbon compounds, BTEX and benzo(a)pyrene to terrestrial ecosystems. The adopted ESL are shown in Table 7.

Table 7: Ecological Screening Levels (mg/kg)

Contaminant	Soil Type	EIL-D
Benzene	Fine	95
Toluene	Fine	135
Ethylbenzene	Fine	185
Xylenes	Fine	95
TRH F1	Coarse/ Fine	215*
TRH F2	Coarse/ Fine	170*
TRH F3	Fine	2500
TRH F4	Fine	6600
B(a)P	Fine	172#

Notes: ESL are of low reliability except where indicated by * which indicates that the ESL is of moderate reliability.
TRH F1 is TRH C_6-C_{10} minus BTEX.
TRH F2 is TRH >C_{10}-C_{16} including naphthalene.
ESL screening criteria for benzo(a)pyrene based on high reliability data from CRC Care (2017).

2.4 Management Limits

In addition to appropriate consideration and application of the HSL and ESL, there are considerations which reflect the nature and properties of petroleum hydrocarbons, including:

- Formation of observable light non-aqueous phase liquids;
- Fire and explosion hazards; and
- Effects on buried infrastructure (e.g. penetration of, or damage to, in-ground services).

The adopted management limits are in Table 8.

Table 8: Management Limits (mg/kg)

Contaminant	Soil type	ML-D
TRH F1	Fine	800
TRH F2	Fine	1000
TRH F3	Fine	5000
TRH F4	Fine	10 000

Notes: TRH F1 is TRH C_6-C_{10} including BTEX.
TRH F2 is TRH >C_{10}-C_{16} including naphthalene.

Appendix I

Field Sheets

Appendix I1

Test Pit Logs

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.7 AHD
COORDINATE: E:297366.3, N:6255956.9
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP201
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	55 / 0	FILL / Silty CLAY: red-brown; medium to high plasticity; with fine to medium ironstone gravel and rootlets, trace roots .		FILL	ND	w=PL		ES		0.20	PID	2ppm
	0.20	CLAY (CI-CH): red-brown; medium to high plasticity; trace fine to medium ironstone gravel.		RS possibly ALV				ES		0.30 0.50	PID	<1ppm
	0.60	CLAY (CH): red-brown mottled pale grey; high plasticity; with fine to medium ironstone gravel.		RS				ES		0.80	PID	<1ppm
	1	Test Pit discontinued at 1.00m depth. Target depth reached.								1.00		
	54 / 2											
	53 / 3											
	52											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.8 AHD
COORDINATE: E:297355.3, N:6255982.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP202
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	55	FILL / Silty CLAY: brown, red -brown and pale grey ; medium to high plasticity; with fine to medium sand and fine to medium ironstone gravel, trace rootlets .		FILL				ES		0.20	PID	< 1ppm
	0.30	CLAY (CH): red-brown; high plasticity; trace roots.		RS possibly ALV	ND	w=PL		ES		0.40	PID	<1ppm
	0.70	CLAY (CH): orange-brown mottled pale grey; high plasticity; trace fine to medium ironstone gravel.		RS						0.50		
	1							ES		0.90	PID	<1ppm
										1		
	54	Test Pit discontinued at 1.10m depth. Target depth reached.								1.10		
	2											
	53											
	3											
	52											

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service
LOGGED: PJ

Generated with CORE-GS by Geroc - Soil Log

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.7 AHD
COORDINATE: E:297346.5, N:6256011.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP203
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[##]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	55	FILL / Clayey Silty SAND: dark brown with red-brown; fine to medium; low to medium plasticity clay; low to medium plasticity silt; trace rootlets, fine to medium igneous, ironstone and concrete gravel.		FILL		w<PL		ES		0.20	PID	2ppm
	0.30	CLAY (CI-CH): red-brown mottled pale grey; medium to high plasticity; with fine to medium ironstone gravel; trace rootlets		RS possibly ALV	ND	w=PL		ES		0.40	PID	<1ppm
		From 0.70m: high plasticity, trace ironstone								0.60		
	1							* ES		0.90	PID	<1ppm
										1		
		Test Pit discontinued at 1.10m depth. Target depth reached.								1.10		
	54											
	2											
	53											
	3											
	52											

NOTES: [##] Soil origin is "probable" unless otherwise stated. [*]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD5/20240712 taken from 0.9-1.1m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.5 AHD
COORDINATE: E:297338.0, N:6256040.5
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP204
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	0.05	FILL / Silty Sandy CLAY: red-brown, orange-brown and brown; low to medium plasticity; fine to medium sand; trace fine to medium ironstone gravel.		FILL		w>PL		ES		0.05	PID	2ppm
				RS possibly ALV						0.10		
								ES			PID	<1ppm
	0.40	CLAY (CH): red-brown and orange-brown; high plasticity; with fine to medium ironstone gravel.			ND					0.30		
	55	CLAY (CH): orange-brown mottled pale grey; high plasticity; with fine to medium ironstone gravel.		RS		w=PL						
										0.60		
								ES			PID	<1ppm
										0.80		
		Test Pit discontinued at 0.80m depth. Target depth reached.										
	1											
	54											
	2											
	53											
	3											
	52											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.4 AHD
COORDINATE: E:297330.2, N:6256068.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP205
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^]/ DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	55 / 0.20	FILL/Silty CLAY, red-brown, pale grey and brown; medium to high plasticity; with fine to medium sand and fine to medium ironstone gravel; trace plastic and rootlets.				w<PL		ES		0.20	PID	1ppm
		CLAY (CI-CH): orange-brown and pale grey; medium to high plasticity; trace fine to medium ironstone gravel.		RS possibly ALV	ND	w<PL		ES		0.30 0.50	PID	<1ppm
	0.60	CLAY (CH): pale grey mottled orange-brown; high plasticity.		RS		w=PL		* ES		0.80	PID	<1ppm
	1	Test Pit discontinued at 1.00m depth. Target depth reached.								1.00		

NOTES: [#]Soil origin is "probable" unless otherwise stated. [^]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD4/20240712 taken from 0.8-1.0m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

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TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.2 AHD
COORDINATE: E:297324.1, N:6256099.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP206
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^]/ DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	55		FILL / Clayey SAND: brown and red-brown; fine to medium; low to medium plasticity clay; with silt; trace plastic, fine to medium sandstone, ironstone and igneous gravel.		FILL				ES		0.20	PID	3ppm
									ES		0.50	PID	<1ppm
		0.70	CLAY (CI-CH): red-brown; medium to high plasticity; trace rootlets.		ALV	ND	w<PL				0.70		
									ES		0.80	PID	<1ppm
		1.00	CLAY (CI-CH): red-brown mottled pale grey; medium to high plasticity.		ALV possibly RS						1.00		
	54								* ES		1.20	PID	<1ppm
			Test Pit discontinued at 1.40m depth. Target depth reached.								1.40		
		2											
	53												
		3											
	52												

NOTES: [#]Soil origin is "probable" unless otherwise stated. [^]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD3/20240712 taken from 1.2-1.4m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

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TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 58.2 AHD
COORDINATE: E:297322.0, N:6256137.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP207
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/07/24 No free groundwater observed	58	FILL / Silty CLAY: dark brown; low to medium plasticity; with fine to medium ironstone gravel; trace rootlets.		FILL		w<PL		ES		0.20	PID	2ppm
		0.70m: trace plastic						ES		0.50	PID	2ppm
	0.90									0.70		
	1	FILL / Silty CLAY: dark grey; low to medium plasticity; trace rootlets .		FILL	ND	w=PL		ES		1.00	PID	2ppm
	57									1.20		
	2	From 2.20m: grey to dark grey, trace fine to medium sand						ES		2.00	PID	1ppm
	56									2.20		
		Test Pit discontinued at 2.60m depth. Limit of excavator.										
	3											
	55											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: JC

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Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 57.0 AHD
COORDINATE: E:297345.1, N:6256150.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP208
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/07/24 No free groundwater observed			FILL / Silty Sandy CLAY: dark brown; low to medium plasticity; fine to medium sand; trace rootlets, timber fragments and fine igneous gravel.		FILL		w>PL		ES		0.20	PID	1ppm
									ES		0.50	PID	1ppm
											0.70		
		0.80	FILL / Silty CLAY: dark grey and red-brown; low to medium plasticity; with fine to medium sand; trace rootlets and timber fragments.								0.90		
	56	1							ES		1	PID	2ppm
											1.10		
			From 1.50m: dark grey			ND							
			From 1.70m: trace fine to medium sand										
					FILL		w=PL				1.90		
	55	2							ES		2	PID	3ppm
											2.10		
											2.80		
	54	3							ES		3.00	PID	<1ppm
			Test Pit discontinued at 3.00m depth. Limit of excavator.										
	53												

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

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Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.1 AHD
COORDINATE: E:297371.6, N:6256167.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP209
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/07/24 Perched groundwater at 1.1m	55 / 0	FILL / Silty CLAY: brown; medium to high plasticity; trace rootlets and timber fragments.		FILL		w<PL		ES	0.00–0.20	0.20	PID	2ppm
								ES	0.50–0.70	0.50	PID	2ppm
	54 / 1					w>PL				0.70		
										1		
		FILL / Silty CLAY: dark brown and grey-brown; medium to high plasticity; with fine to medium ironstone gravel; trace rootlets and plastic irrigation hose.			ND			ES	1.50–1.70	1.50	PID	<1ppm
	53 / 2	From 2.20m: with timber; trace plastic; moderate decomposition odour		FILL		w=PL				1.70		
										2		
								ES	2.50–2.70	2.50	PID	1ppm
	52 / 3	Test Pit discontinued at 3.00m depth. Limit of excavator.								2.70		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.2 AHD
COORDINATE: E:297389.6, N:6256187.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP210
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/07/24 No free groundwater observed	55 / 0	FILL / Silty CLAY: brown and yellow-brown; medium to high plasticity; with fine to medium ironstone gravel; trace rootlets.		FILL				ES		0.20	PID	1ppm
								ES		0.50	PID	2ppm
										0.70		
	54 / 1							ES		1.00	PID	2ppm
										1.20		
	1.60	FILL / Silty CLAY: red-brown, pale grey and brown; medium to high plasticity; with fine to medium sand; trace rootlets, timber fragments and plastic; moderate decomposition odour.		FILL	ND	w<PL		ES		1.70	PID	2ppm
	53 / 2									1.90		
										2.70	PID	2ppm
								ES		2.90		
	52 / 3									3.30	PID	2ppm
	3.20	Silty CLAY (CI-CH): yellow and yellow-grey; medium to high plasticity.		ALV possibly FILL		w>PL		ES		3.50		
		Test Pit discontinued at 3.50m depth. Limit of excavator.										

NOTES: [#]Soil origin is "probable" unless otherwise stated. [^]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.4 AHD
COORDINATE: E:297361.4, N:6256122.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP211
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^]/ DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	54	FILL / Silty CLAY: pale brown, red-brown and pale grey; medium to high plasticity; with fine to medium ironstone gravel; trace rootlets (0-0.1m) . From 0.40m: with fine to medium sand; trace sandstone and igneous gravel		FILL		w=PL		ES		0.20	PID	3ppm
	0.80							ES		0.50	PID	6ppm
	1	FILL / Silty CLAY: pale grey and red-brown; medium to high plasticity; with fine to medium ironstone gravel.		FILL	ND	w<PL		ES		0.80 0.90 1 1.10	PID	5ppm
	1.20	FILL / Silty CLAY: dark grey and red-brown; low to medium plasticity; with fine to medium igneous and ironstone gravel.		FILL		w=PL		ES		1.20	PID	3ppm
	1.35	CLAY (CI-CH): red-brown; medium to high plasticity; trace rootlets and fine to medium ironstone gravel.		ALV		w<PL		ES		1.35 1.40	PID	1ppm
	53							ES		1.60		
								* ES		1.80	PID	<1ppm
	2	Test Pit discontinued at 2.00m depth. Target depth reached.								2.00		
	52											
	3											
	51											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate taken from BD2/20240712 taken from 1.8-2.0m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.1 AHD
COORDINATE: E:297392.8, N:6256138.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP212
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	54	0	FILL / Silty CLAY: orange-brown, red-brown and pale brown; medium to high plasticity; with fine to medium sand and fine to medium ironstone gravel; trace rootlets (0-0.2m). From 0.30m: trace sandstone gravel		FILL		w<PL		ES		0.20	PID	3ppm
		0.40	FILL / Silty Sandy CLAY: brown, red-brown and pale grey; low to medium plasticity; fine to medium sand; with fine to medium ironstone gravel; trace plastic. From 0.80m: pale grey, red-brown and brown						ES		0.50	PID	4ppm
	53	1									0.70		
									ES		1.00	PID	5ppm
					FILL	ND	w<PL				1.20		
	52	2							ES		2.00	PID	1ppm
											2.20		
		2.40	CLAY (CI-CH): dark grey mottled red-brown; medium to high plasticity; trace rootlets and decomposed wood.		ALV		w=PL		ES		2.40	PID	1ppm
											2.60		
									ES		2.80	PID	<1ppm
	51	3	Test Pit discontinued at 3.00m depth. Target depth reached.								3.00		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.7 AHD
COORDINATE: E:297361.6, N:6256087.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP213
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	54	FILL / Silty CLAY: red-brown, pale grey and brown; medium to high plasticity; with fine to medium sand and fine to medium ironstone gravel; trace rootlets.		FILL		w>PL		ES		0.20	PID	8ppm
	0.20	FILL / Silty Sandy CLAY: brown and red-brown; low to medium plasticity; fine to medium sand; with fine to medium igneous and ironstone gravel.		FILL		w<PL		ES		0.30	PID	8ppm
	0.50	FILL / Silty CLAY: pale grey, red-brown and brown; medium to high plasticity; with fine to medium sand and fine to medium ironstone gravel.		FILL		w<PL		ES		0.50		
	0.80	FILL / Silty CLAY: grey-brown; low to medium plasticity; with fine to medium sand and fine to medium ironstone gravel; trace rootlets and fine to medium igneous gravel.		FILL	ND			ES		0.60	PID	2ppm
	0.90	CLAY (CI-CH): pale red-brown; medium to high plasticity; trace rootlets.		ALV		w=PL		ES		0.80	PID	2ppm
	1							ES		0.90		
								ES		1.00	PID	<1ppm
										1.20		
										1.40		
								* ES		1.60	PID	<1ppm
	53	Test Pit discontinued at 1.60m depth. Target depth reached.										
	2											
	52											
	3											
	51											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD1/20240712 taken from 1.4-1.6m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.1 AHD
COORDINATE: E:297403.9, N:6256117.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP214
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	54		FILL / Silty CLAY: orange-brown, red-brown, brown and pale grey; medium to high plasticity; with fine to medium sand and fine to medium ironstone gravel; trace rootlets.		FILL				ES		0.20	PID	3ppm
		0.30	FILL / Silty Sandy CLAY: dark brown, red-brown and pale grey; low to medium plasticity; fine to medium sand; with fine to medium ironstone gravel; trace plastic.								0.40		
									ES		0.60	PID	4ppm
			From 0.90m: trace sandstone gravel								0.90		
	53	1							ES		1	PID	4ppm
											1.10		
			From 1.30m: pale grey to dark grey and red-brown				w<PL						
					FILL								
						ND							
											1.90		
	52	2							ES		2	PID	1ppm
											2.10		
		2.70	CLAY (CI-CH): pale brown; medium to high plasticity; trace roots and rootlets.								2.80		
									ES			PID	<1ppm
	51	3			ALV		w=PL				3.00		
											3.10		
									ES			PID	<1ppm
											3.30		
			Test Pit discontinued at 3.30m depth. Target depth reached.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.8 AHD
COORDINATE: E:297370.7, N:6256057.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP215
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	54	FILL / Silty CLAY: red-brown, pale grey and brown; medium to high plasticity; with fine to medium sand and fine to medium ironstone gravel; trace rootlets (0-0.2m) and fine to medium igneous gravel.		FILL	ND	ND		ES		0.20	PID	4ppm
								ES		0.50	PID	4ppm
										0.70		
	1.00 53	CLAY (CI-CH): red-brown; medium to high plasticity; with fine to medium ironstone gravel; trace roots		ALV possibly RS		w=PL		ES		1 1.10	PID	<1ppm
		From 1.40m: red-brown mottled grey; trace ironstone gravel								1.30		
								ES		1.50	PID	<1ppm
										1.70		
	2 52	Test Pit discontinued at 1.80m depth. Target depth reached.										
	3 51											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Generated with CORE-GS by Geroc - Soil Log

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.2 AHD
COORDINATE: E:297406.5, N:6256083.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP216
PROJECT No: 207476.06
DATE: 11/07/24
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(##)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	SAMPLE DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
11/07/24 No free groundwater observed	54	0.00	FILL / Silty CLAY: orange-brown, pale grey, brown and red-brown; medium to high plasticity; with fine to medium ironstone gravel; trace fine to medium sand and rootlets.		FILL				ES		0.20	PID	5ppm
		0.40	FILL / Silty Sandy CLAY: dark brown and red-brown; low to medium plasticity; fine to medium sand; with fine to medium igneous gravel; trace glass, timber, rubber, plastic, slag, fabric and fine to medium sandstone gravel.		FILL		w=PL		ES		0.50	PID	3ppm
		1							ES		0.80	PID	5ppm
											1.00		
	53	1.20	FILL / Silty Sandy CLAY: dark brown and red-brown; low to medium plasticity; fine to medium sand.		FILL		w<PL		ES		1.30	PID	3ppm
											1.50		
		1.70	FILL / Silty CLAY: pale grey-brown; low to medium plasticity; with fine to medium sand; trace rootlets; strong decomposition odour.		FILL	ND	w=PL		ES		1.80	PID	4ppm
	52	2									2.00		
									ES		2.40	PID	4ppm
											2.60		
		2.70	Silty CLAY (CI-CH): pale brown mottled pale orange-brown; medium to high plasticity; trace rootlets and roots.		ALV		w<PL		ES		2.80		
		3									3.00		
	51								ES		3.20		
											3.40		
			Test Pit discontinued at 3.40m depth. Target depth reached.										

NOTES: (##) Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.8 AHD
COORDINATE: E:297446.5, N:6256096.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP217
PROJECT No: 207476.06
DATE: 11/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
11/07/24 No free groundwater observed	53 / 0	FILL / Silty CLAY: brown, orange-brown, red-brown and pale grey; medium to high plasticity; with fine to medium sand and fine to medium ironstone gravel; trace rootlets (0-0.2m) and concrete fragments.		FILL		w>PL		ES		0.20	PID	4ppm
	0.30	FILL / Silty CLAY: orange-brown, red-brown and pale grey; low to medium plasticity; with fine to medium ironstone gravel.						ES		0.40	PID	8ppm
										0.60		
		From 0.90m: with fine to medium sand and shale gravel						ES		0.90	PID	8ppm
	1			FILL		w<PL				1.10		
		From 1.60m: no sand			ND			ES		1.70	PID	7ppm
	52 / 2									1.90		
	2.10	FILL / Silty CLAY: pale grey-brown; low to medium plasticity; with fine to medium sand; trace rootlets, charcoal and fine to medium igneous gravel.		FILL		w=PL		ES		2.15	PID	9ppm
	2.35	CLAY (CI-CH): orange-brown mottled grey; medium to high plasticity; with rootlets; trace roots.		ALV		w<PL		ES		2.40	PID	<1ppm
	51									2.60		
								ES		2.80	PID	<1ppm
	3	Test Pit discontinued at 3.00m depth. Target depth reached .								3.00		
	50											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

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Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.1 AHD
COORDINATE: E:297371.5, N:6256024.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP218
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^]/ DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	55	0	FILL / Silty CLAY: red-brown, pale grey and brown; medium to high plasticity; with fine to medium sand and fine to medium ironstone gravel; trace rootlets (0-0.2m).		FILL	ND	ND		ES		0.20	PID	4ppm
									ES		0.50	PID	2ppm
											0.70		
	54	1							ES		1.00	PID	3ppm
		1.20	CLAY (CI-CH): red-brown; medium to high plasticity; trace rootlets and fine to medium ironstone gravel.		ALV		w=PL		ES		1.20	PID	<1ppm
											1.30		
									ES		1.50	PID	<1ppm
											1.60		
									* ES		1.80		
	53	2	Test Pit discontinued at 1.80m depth. Target depth reached.										
	52	3											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD6/20240712 taken from 1.6-1.8m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.4 AHD
COORDINATE: E:297413.6, N:6256046.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP219
PROJECT No: 207476.06
DATE: 11/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
11/07/24 No free groundwater observed	54	FILL / Silty CLAY: red-brown, brown and pale grey; medium to high plasticity; with fine to medium sand and fine to medium ironstone gravel; trace rootlets (0-0.2m).		FILL		w>PL		ES		0.20	PID	5ppm
								ES		0.50	PID	3ppm
	0.80									0.70		
	1	FILL / Silty CLAY: red-brown; medium to high plasticity; trace fine to medium ironstone gravel.		FILL	ND			ES		0.90	PID	5ppm
										1		
	1.40									1.10		
	53	FILL / Silty CLAY: pale grey with orange-brown; medium to high plasticity; with fine to medium ironstone gravel.		FILL		w<PL		ES		1.60	PID	8ppm
										1.80		
	2.00									2		
		CLAY (CH): brown mottled red-brown; high plasticity; trace rootlets and fine to medium ironstone gravel.		ALV		w=PL		ES		2.10	PID	<1ppm
	52									2.30		
								ES		2.40	PID	<1ppm
										2.60		
		Test Pit discontinued at 2.60m depth. Target depth reached.										
	3											
	51											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

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Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.1 AHD
COORDINATE: E:297450.8, N:6256058.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP220
PROJECT No: 207476.06
DATE: 11/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
11/07/24 No free groundwater observed	54 / 0	FILL / Silty CLAY: orange-brown and pale grey; medium to high plasticity; with fine to medium ironstone gravel; trace rootlets (0-0.2m).		FILL				ES		0.20	PID	2ppm
	0.35	CLAY (CI-CH): pale orange-brown mottled pale brown; medium to high plasticity; trace decomposed wood and fine to medium ironstone gravel.		ALV	ND	w=PL		ES		0.40	PID	<1ppm
	53 / 1							* ES		0.60		
										0.90		
										1	PID	<1ppm
										1.10		
		Test Pit discontinued at 1.10m depth. Target depth reached.										
	52 / 2											
	51 / 3											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD5/20240711 taken from 0.9-1.1m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.1 AHD
COORDINATE: E:297387.4, N:6256003.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP221
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	55 / 0	FILL / Silty CLAY: red-brown; medium to high plasticity; with fine to medium ironstone gravel; trace rootlets. From 0.20m: with fine to medium sand		FILL				ES		0.20	PID	5ppm
	0.40	FILL / Silty CLAY: red-brown and grey; medium to high plasticity; with fine to medium ironstone gravel. 0.60m: trace decomposed wood		FILL				ES		0.30 0.70	PID	2ppm
	54 / 1				ND	w=PL				1		
	1.20	FILL / Silty CLAY: dark brown; low to medium plasticity; with fine to medium igneous gravel; trace rootlets and decomposed wood.		FILL				ES		1.25 1.35	PID	2ppm
	1.35	Silty CLAY (CI-CH): red-brown and yellow-brown; medium to high plasticity; with fine to medium ironstone gravel. From 1.60m: red-brown mottled grey						ES		1.40 1.60	PID	<1ppm
	53 / 2	Test Pit discontinued at 2.00m depth. Target depth reached.						ES		1.80 2.00	PID	<1ppm
	52 / 3											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service
LOGGED: NW

Refer to explanatory notes for symbol and abbreviation definitions

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Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.5 AHD
COORDINATE: E:297431.2, N:6256015.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP222
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/07/24 No free groundwater observed	54	FILL / Sandy CLAY: pale brown and pale grey; low to medium plasticity; fine to medium sand; trace roots, rootlets and fine to medium ironstone gravel.		FILL				ES		0.20	PID	2ppm
		0.20 FILL / Silty CLAY: pale grey, brown and red-brown; medium to high plasticity; trace rootlets and fine to medium ironstone gravel.		FILL		w<PL		ES		0.30 0.50	PID	2ppm
		From 0.70m: yellow-brown to brown										
		0.80 FILL / Clayey SAND: brown and dark brown; fine to medium; low to medium plasticity clay; trace rootlets and fine to medium sandstone and ironstone gravel.		FILL				ES		0.80 1.00	PID	3ppm
	53	1.30 FILL / Silty Sandy CLAY: pale grey; low to medium plasticity; fine to medium sand; trace fine to medium ironstone gravel.		FILL	ND	w=PL		ES		1.80 1.90	PID	2ppm
	52	2.25 Silty CLAY (CI-CH): yellow-brown; medium to high plasticity; trace fine to medium ironstone gravel.		ALV				ES		2.30 2.50	PID	<1ppm
								ES		2.60 2.80	PID	<1ppm
	51	Test Pit discontinued at 2.80m depth. Target depth reached.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

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Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.2 AHD
COORDINATE: E:297477.5, N:6256025.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP223
PROJECT No: 207476.06
DATE: 11/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
11/07/24 No free groundwater observed	54 / 0	FILL / Silty CLAY: red-brown, pale brown and pale grey; medium to high plasticity; with fine to medium sand; trace rootlets (0-0.2m) and fine to medium ironstone gravel.		FILL		w>PL		ES		0.20	PID	4ppm
	0.20	FILL / Sandy CLAY: dark brown and red-brown; low to medium plasticity; fine to medium sand; trace fine to medium ironstone gravel.		FILL		w=PL		ES		0.30 0.50	PID	3ppm
	0.70	FILL / Silty CLAY: red-brown and pale grey; medium to high plasticity; with fine to medium ironstone gravel.						ES		0.80 1.00	PID	3ppm
	1 / 53	From 1.20m: orange-brown and pale grey										
		From 1.60m: red-brown and dark brown; with fine to medium sand		FILL	ND	w<PL		ES		1.80 2.00	PID	4ppm
	2 / 52							ES		2.80 3.00	PID	5ppm
	3.00 / 51	FILL / Silty Sandy CLAY: pale grey-brown and red-brown; low to medium plasticity; fine to medium sand; with fine to medium ironstone gravel; trace rootlets and fine to medium igneous gravel.		FILL		M		ES		3.10 3.30	PID	3ppm
	3.30	CLAY (CI-CH): pale brown mottled grey; medium to high plasticity; trace rootlets.		ALV		w=PL	*	ES		3.40 3.50	PID	<1ppm
		Test Pit discontinued at 3.60m depth. Limit of excavator.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD1/20240711 taken from 3.4-3.6m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.2 AHD
COORDINATE: E:297397.1, N:6255965.5
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP224
PROJECT No: 207476.06
DATE: 12/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
12/07/24 No free groundwater observed	55 / 0	FILL / Silty CLAY: red-brown; medium to high plasticity; with rootlets; trace fine to medium ironstone gravel.		FILL		w=PL		ES		0.20	PID	2ppm
	0.45	FILL / Silty Sandy CLAY: pale brown; low to medium plasticity; fine to medium sand; with fine to medium igneous and ironstone gravel.		FILL		D		ES		0.50	PID	<1ppm
	0.70	Silty CLAY (CI-CH): red-brown and orange-brown; medium to high plasticity; with fine to medium ironstone gravel.			ND			ES		0.80	PID	<1ppm
	54 / 1	From 1.10m: red-brown mottled grey				w<PL				1.00		
								ES		1.20	PID	<1ppm
										1.40		
		Test Pit discontinued at 1.40m depth. Target depth reached .										
	53 / 2											
	52 / 3											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: NW

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.6 AHD
COORDINATE: E:297437.1, N:6255993.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP225
PROJECT No: 207476.06
DATE: 11/07/04
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
11/07/24 No free groundwater observed	54	FILL / Silty CLAY: pale brown, red-brown and pale grey; medium to high plasticity; trace rootlets (0-0.2m) and fine to medium ironstone gravel .		FILL		w>PL		ES		0.20	PID	3ppm
		0.50m: trace flagged warning rope				w<PL		ES		0.50	PID	3ppm
	0.70	FILL / CLAY: pale brown and dark brown; medium to high plasticity.		FILL		w=PL		ES		0.70	PID	3ppm
	0.90	FILL / Silty CLAY: pale grey, red-brown and pale brown; low to medium plasticity; with fine to medium ironstone gravel.		FILL	ND	w<PL		ES		1.00	PID	4ppm
	1	From 1.50m: pale grey and red-brown								1.20		
	53									1.90		
	1.80	FILL / Silty Sandy CLAY: brown with red-brown and pale grey; low to medium plasticity; fine to medium sand; trace fine to medium ironstone gravel.		FILL		w=PL		ES		2	PID	3ppm
	2									2.10		
	2.20	FILL / Silty Sandy CLAY: pale brown; low to medium plasticity; fine to medium sand; trace rootlets.		FILL		M		ES		2.20	PID	4ppm
	2.40	Silty CLAY (CI-CH): pale brown mottled red-brown; medium to high plasticity.		ALV		w=PL		ES		2.40		
	52									2.50	PID	<1ppm
										2.70		
	3									3.00		
								ES		3.20	PID	<1ppm
	51	Test Pit discontinued at 3.20m depth. Target depth reached .										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD2/20240711 taken from 3.0-3.2m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.6 AHD
COORDINATE: E:297437.8, N:6255970.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP226
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/07/24 No free groundwater observed	54 / 0	FILL / Silty CLAY: dark brown with some red-brown; low to medium plasticity; with fine to medium sand; trace rootlets, timber fragments and fine to medium ironstone gravel.						ES		0.20		
		From 0.50m: with cobbles; trace plastic		FILL	ND	w=PL		ES		0.50 0.70		
	1	From 1.10m: with sandstone boulders						ES		1.00		
		Test Pit discontinued at 1.20m depth. Large boulders possibly associated with stormwater service.								1.20		
	53 / 1											
	2											
	52 / 2											
	3											
	51 / 3											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.7 AHD
COORDINATE: E:297500.1, N:6255986.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP227
PROJECT No: 207476.06
DATE: 11/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
11/07/24 No free groundwater observed	53 / 0	FILL / Silty Sandy CLAY: dark brown, red-brown and pale grey; low to medium plasticity; fine to medium sand; with fine to medium igneous and sandstone gravel; trace rootlets (0-0.2m)						ES		0.20	PID	3ppm
								ES		0.50	PID	3ppm
		From 0.80m: with fine to medium sand		FILL						0.70		
	1	From 1.00m: trace ash						ES		1.00	PID	2ppm
	52				ND	w=PL				1.20		
	1.80	FILL / Silty Sandy CLAY: pale grey-brown; low to medium plasticity; trace rootlets and fine to medium igneous gravel.		FILL				ES		1.80	PID	3ppm
	2.00	CLAY (CI-CH): pale brown; medium to high plasticity; trace rootlets.		ALV				ES		2.00		
								ES		2.10	PID	<1ppm
										2.30		
								ES		2.40	PID	<1ppm
	51	Test Pit discontinued at 2.60m depth. Target depth reached.								2.60		
	3											
	50											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD4/20240711 taken from 2.4-2.6m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.5 AHD
COORDINATE: E:297535.2, N:6255989.9
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP228
PROJECT No: 207476.06
DATE: 11/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
11/07/24 No free groundwater observed	53 / 0	FILL / Silty CLAY: pale grey and red-brown; medium to high plasticity; with fine to medium ironstone gravel.		FILL		w>PL		ES		0.20	PID	3ppm
	0.40 / 53	FILL / Silty CLAY: dark brown with red-brown and pale grey; low to medium plasticity; with fine to medium sand; trace glass and fine to medium ironstone gravel.		FILL	ND			ES		0.50	PID	4ppm
	1							ES		0.70		
								ES		1.00	PID	5ppm
						w=PL				1.20		
	1.40 / 52	CLAY (CI-CH): pale brown; medium to high plasticity; trace rootlets.		ALV				ES		1.50	PID	<1ppm
										1.70		
								* ES		1.80	PID	<1ppm
	2 / 51	Test Pit discontinued at 2.00m depth. Target depth reached.								2.00		
	3 / 50											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD3/20240711 taken from 1.8-2.0m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

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TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 55.4 AHD
COORDINATE: E:297442.7, N:6256257.3
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP229
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/07/24 No free groundwater observed	55 / 0	FILL / Silty Sandy CLAY: dark brown to brown; low to medium plasticity; fine to medium sand; trace rootlets, timber fragments and fine to medium ironstone gravel.		FILL	ND	w=PL		ES		0.20	PID	3ppm
								ES		0.50	PID	5ppm
										0.70		
	1 / 54	From 1.00m: dark brown						ES		1.00	PID	4ppm
										1.20		
						w>PL				1.90		
	2 / 53							ES		2	PID	5ppm
	2.20	FILL / Silty Sandy CLAY: dark brown, red-brown some pale grey; low to medium plasticity; fine to medium sand; trace timber fragments and fine to medium ironstone gravel.		FILL						2.10		
										2.30		
								ES			PID	3ppm
										2.50		
		Test Pit discontinued at 2.80m depth. Limit of excavator.										
	3 / 52											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

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Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.0 AHD
COORDINATE: E:297466.9, N:6256287.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP230
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
			FILL / Silty Sandy CLAY: dark brown to brown; medium to high plasticity; fine to medium sand; with roots and rootlets; trace timber fragments and fine to medium ironstone gravel.						ES		0.20	PID	4ppm
									ES		0.50	PID	2ppm
									ES		0.70		
	53	1	From 1.00m: grey-brown and dark yellow-brown.		FILL		w<PL		ES		1.00	PID	4ppm
									ES		1.20		
▼ Perched groundwater at 1.7m 16/07/24						ND			ES		1.60	PID	4ppm
	52	2					w>PL		ES		1.80		
									ES		2.00	PID	3ppm
		2.50	FILL / Silty CLAY: pale grey and red-brown; medium to high plasticity.						ES		2.20		
					FILL		w<PL		ES		2.60	PID	2ppm
	51	3	Test Pit discontinued at 3.00m depth. Limit of excavator.								2.80		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

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Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.5 AHD
COORDINATE: E:297497.3, N:6256310.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP231
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/07/24 No free groundwater observed	53 / 0	FILL / Silty CLAY: brown to dark brown; medium to high plasticity; with wood chips; trace rootlets, timber fragments and fine to medium ironstone gravel.		FILL				ES		0.20	PID	3ppm
	0.20	FILL / Silty Sandy CLAY: dark brown and red-brown; low to medium plasticity; fine to medium sand; with wood chips and timber fragments; trace plastic and fine to medium ironstone gravel.						ES		0.30	PID	3ppm
				FILL		w<PL				0.50		
	1							ES		0.80	PID	3ppm
	1.10	FILL / Silty Sandy CLAY: dark brown and grey-brown; low to medium plasticity; fine to medium sand; with rootlets and wood chips; trace timber fragments.								1.00		
	52				ND			ES		1.20	PID	3ppm
										1.40		
	2			FILL		w=PL				2		
								ES		2.20	PID	<1ppm
	51									2.40		
	2.90	Silty CLAY (CI-CH): yellow-brown; medium to high plasticity.		ALV				ES		3.00	PID	<1ppm
	3									3.20		
	50	Test Pit discontinued at 3.20m depth. Limit of excavator.										

NOTES: [#]Soil origin is "probable" unless otherwise stated. [*]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD4/20240716 taken from 3.0-3.2m

OPERATOR: A&A Hire Service
LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 51.6 AHD
COORDINATE: E:297503.8, N:6256343.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP232
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/07/24 No free groundwater observed	51 / 0.20	FILL / Silty CLAY: dark brown to brown; low to medium plasticity; trace rootlets, roots, timber fragments and fine to medium ironstone gravel.		FILL		w=PL		ES		0.20	PID	2ppm
		FILL / Silty CLAY: brown and yellow-brown; low to medium plasticity; trace fine to medium sandstone gravel.						ES		0.30	PID	4ppm
										0.50		
				FILL								
		From 0.90m: grey-brown and brown.			ND							
	1 / 1.20					w<PL				1.00	PID	2ppm
		CLAY (CI-CH): yellow-brown and dark brown; medium to high plasticity.						ES		1.20		
										1.30	PID	<1ppm
				ALV				ES		1.50		
										1.60	PID	<1ppm
								* ES		1.80		
	50	Test Pit discontinued at 1.80m depth. Target depth reached.										
	2											
	49											
	3											
	48											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD3/20240716 taken from 1.6-1.8m

OPERATOR: A&A Hire Service
LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 52.7 AHD
COORDINATE: E:297507.7, N:6256279.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP233
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(##)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/07/24 No free groundwater observed	52 / 0	FILL / Silty CLAY: dark brown; low to medium plasticity; with fine to medium sand; trace rootlets, charcoal, plastic, fine to medium igneous and sandstone gravel.		FILL		w=PL		ES		0.20	PID	3ppm
								ES		0.50	PID	4ppm
	1									0.70		
								ES		1.00	PID	3ppm
	1.30									1.20		
		FILL / Silty Sandy CLAY: dark grey; low to medium plasticity; fine to medium sand; trace rootlets, roots and fine to medium ironstone gravel.		FILL	ND			ES		1.40	PID	3ppm
	51									1.60		
	2									2		
	2.10					w=PL						
		CLAY (CI-CH): pale red-brown; medium to high plasticity; trace fine to medium ironstone gravel.		ALV				ES		2.20	PID	<1ppm
										2.40		
	50									2.70		
								* ES		2.90	PID	<1ppm
	3	Test Pit discontinued at 2.90m depth. Target depth reached.										
	49											

NOTES: (##) Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD2/20240716 taken from 2.7-2.9m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.2 AHD
COORDINATE: E:297472.6, N:6256233.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP234
PROJECT No: 207476.06
DATE: 15/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
15/07/24 No free groundwater observed	53 / 0.20	FILL / Silty CLAY: brown and yellow-brown; medium to high plasticity; trace roots, rootlets and fine to medium ironstone gravel.		FILL		w=PL		ES		0.20	PID	3ppm
		FILL / Sandy CLAY: brown, red-brown and pale grey; medium to high plasticity; trace fine to medium ironstone gravel.						ES		0.30	PID	<1ppm
										0.50		
								ES		0.80	PID	5ppm
	1			FILL						1.00		
	52	From 1.10m: pale grey			ND	w<PL						
								ES		1.20	PID	4ppm
										1.40		
	1.70	FILL / Clayey SAND: dark brown to brown; fine to medium; low to medium plasticity clay; trace rootlets and fine to medium ironstone gravel.		FILL						1.80		
								ES			PID	4ppm
	2.00	CLAY (CI-CH): yellow-brown; medium to high plasticity; trace roots.		ALV						2.00		
	51							ES		2.10	PID	<1ppm
										2.30		
								* ES			PID	<1ppm
		Test Pit discontinued at 2.50m depth. Target depth reached.										
	3											
	50											

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD620240715 taken from 2.3-2.5m

OPERATOR: A&A Hire Service
LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 52.8 AHD
COORDINATE: E:297515.9, N:6256232.5
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP235
PROJECT No: 207476.06
DATE: 15/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
15/07/24 No free groundwater observed	52 / 0	FILL / Silty CLAY: brown to pale brown; low to medium plasticity; trace rootlets and fine to medium ironstone gravel.		FILL				ES		0.20	PID	2ppm
	0.20	FILL / Silty Sandy CLAY: brown, red-brown and pale grey; low to medium plasticity; fine to medium sand; trace fine to medium ironstone gravel. From 0.50m: pale grey.		FILL				ES		0.30	PID	3ppm
										0.50		
								ES		0.80	PID	3ppm
	1				ND	w<PL				1.00		
	1.50	FILL / Clayey SAND: dark brown to brown; fine to medium; low to medium plasticity clay; trace fine to medium sandstone and ironstone gravel.		FILL				ES		1.70	PID	2ppm
	51 / 2									1.90		
	2.10	CLAY (CI-CH): brown and yellow-brown; medium to high plasticity; trace rootlets.		ALV				ES		2.20	PID	<1ppm
										2.40		
								ES			PID	<1ppm
	50 / 3	Test Pit discontinued at 2.60m depth. Target depth reached.								2.60		
	49											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.2 AHD
COORDINATE: E:297473.8, N:6256199.5
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP236
PROJECT No: 207476.06
DATE: 15/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
15/07/24 No free groundwater observed	53 / 0.20	FILL / Silty CLAY: pale brown to brown; low to medium plasticity; trace rootlets and fine to medium ironstone gravel.		FILL		w=PL		ES		0.20	PID	3ppm
		FILL / Silty CLAY: pale grey and red-brown; medium to high plasticity; trace fine to medium ironstone gravel.		FILL				ES		0.30 0.50	PID	2ppm
	1	From 0.90m: dark brown						ES		0.80 1.00	PID	4ppm
	1.10 / 52	FILL / Clayey SAND: brown to dark brown; fine to medium; low to medium plasticity clay; trace timber fragments and fine to medium ironstone gravel.		FILL	ND	w<PL		ES		1.20 1.40	PID	1ppm
	2 / 51									2		
	2.30	CLAY (CI-CH): brown and yellow-brown; medium to high plasticity; trace roots.		ALV		w=PL		ES		2.40 2.60	PID	<1ppm
								ES		2.70 2.90	PID	<1ppm
	3 / 50	Test Pit discontinued at 2.90m depth. Target depth reached.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.2 AHD
COORDINATE: E:297442.6, N:6256179.8
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP237
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^]/ DENSITY.[^]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	SAMPLE DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
16/07/24 No free groundwater observed	53	0.20	FILL / Silty CLAY: brown; low to medium plasticity; trace rootlets and fine to medium ironstone gravel.		FILL				ES		0.20	PID	3ppm
			FILL / Silty CLAY: pale grey and red-brown; low to medium plasticity; trace fine to medium ironstone gravel.						ES		0.30		
											0.50	PID	5ppm
			From 0.70m: dark grey to brown; with sandstone boulders.						ES		0.80		
		1									1.00	PID	2ppm
	52		From 1.30m: dark brown; trace slag, no sandstone boulders.		FILL	ND	w<PL						
									ES		1.80		
		2									2.00	PID	<1ppm
	51	2.60	Silty CLAY (CI-CH): pale brown and yellow-brown; medium to high plasticity.		ALV		w=PL		ES		2.70		
											2.90	PID	<1ppm
		3									3.00		
									* ES		3.20	PID	<1ppm
	50		Test Pit discontinued at 3.20m depth. Target depth reached.										

NOTES: [#]Soil origin is "probable" unless otherwise stated. [^]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD1/20240716 taken from 3.0-3.2m

OPERATOR: A&A Hire Service
LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 52.8 AHD
COORDINATE: E:297517.9, N:6256193.9
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP238
PROJECT No: 207476.06
DATE: 15/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
15/07/24 No free groundwater observed	52	FILL / Silty CLAY: brown to pale brown; medium to high plasticity; trace rootlets and fine to medium ironstone gravel.		FILL		w=PL		ES		0.20	PID	3ppm
	0.20	FILL / Sandy CLAY: pale grey, brown and red-brown; medium to high plasticity; fine to medium sand; trace rootlets and fine to medium ironstone gravel.						ES		0.30	PID	3ppm
		From 0.50m: dark brown								0.50		
	1			FILL	ND	w<PL		ES		0.80	PID	2ppm
										1.00		
	1.50	FILL / Clayey Silty SAND: grey to pale grey; fine to medium; low to medium plasticity clay; low to medium plasticity silt; with fine to medium ironstone gravel; trace timber.		FILL				ES		1.60	PID	2ppm
	51 1.90	CLAY (CI-CH): yellow-brown; medium to high plasticity.		ALV				ES		1.80	PID	<1ppm
	2									2.00		
										2.20		
								ES		2.30	PID	<1ppm
										2.50		
	50	Test Pit discontinued at 2.50m depth. Target depth reached.										
	3											
	49											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.0 AHD
COORDINATE: E:297499.5, N:6256169.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP239
PROJECT No: 207476.06
DATE: 15/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(^)/ DENSITY.(^)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
15/07/24 No free groundwater observed	52	1	FILL / Silty CLAY: red-brown, pale brown and brown; medium to high plasticity; trace fine to medium ironstone gravel. From 0.20m: with fine to medium sand		FILL	ND	w<PL		ES		0.20	PID	<1ppm
									ES		0.50	PID	<1ppm
											0.70		
									ES		1.00	PID	2ppm
											1.20		
		1.80									1.80		
	51		FILL / Silty CLAY: grey-brown; low to medium plasticity; with fine to medium sand; trace rootlets and fine to medium ironstone gravel.		FILL		w=PL		ES			PID	<1ppm
		2.00	CLAY (CI-CH): pale orange-brown; medium to high plasticity; trace rootlets.		ALV		w<PL				2.00		
									ES		2.10	PID	<1ppm
											2.30		
											2.40		
	50	3							* ES			PID	<1ppm
			Test Pit discontinued at 2.60m depth. Target depth reached.										

NOTES: (#)Soil origin is "probable" unless otherwise stated. (^)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD5/20240715 taken from 2.4-2.6m

OPERATOR: A&A Hire Service
LOGGED: PJ

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Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.1 AHD
COORDINATE: E:297495.2, N:6256143.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP240
PROJECT No: 207476.06
DATE: 15/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
15/07/24 No free groundwater observed	53 / 0.20	FILL / Silty CLAY: pale grey-brown; low to medium plasticity; trace rootlets.		FILL				ES		0.20	PID	2ppm
		FILL / Silty Sandy CLAY: pale grey, brown and red-brown; low to medium plasticity; fine to medium sand; trace rootlets and fine to medium ironstone gravel.						ES		0.30 0.50	PID	5ppm
		From 0.80m: dark brown.						ES		0.80 1.00	PID	4ppm
	1 / 52			FILL	ND	w<PL						
								ES		1.80	PID	3ppm
	2.00 / 51	FILL / Silty CLAY: brown and grey-brown; low to medium plasticity; with fine to medium sand; trace fine to medium ironstone gravel.		FILL				ES		2.00	PID	2ppm
	2.20	CLAY (CI-CH): pale brown and yellow-brown; medium to high plasticity.		ALV		w=PL		ES		2.20 2.30	PID	<1ppm
								ES		2.50 2.70	PID	<1ppm
	3 / 50	Test Pit discontinued at 2.90m depth. Target depth reached.								2.90		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

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Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.5 AHD
COORDINATE: E:297447.6, N:6256134.5
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP241
PROJECT No: 207476.06
DATE: 11/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
11/07/24 No free groundwater observed	53 / 0	FILL / Silty CLAY: red-brown, orange-brown, brown and pale grey; medium to high plasticity; with fine to medium sand and fine to medium ironstone gravel; trace rootlets (0-0.2m)						ES		0.20	PID	4ppm
		From 0.40m: dark brown and red-brown; trace charcoal.						ES		0.50	PID	5ppm
		.								0.70		
	52 / 1							ES		1.00	PID	4ppm
				FILL		w=PL				1.20		
					ND			ES		1.50	PID	5ppm
										1.70		
	51 / 2							ES		2.00	PID	4ppm
										2.20		
	2.50	CLAY (CI-CH): pale brown mottled grey; medium to high plasticity; trace rootlets.		ALV		w<PL		ES		2.60	PID	<1ppm
										2.80		
										2.90		
	3							ES		3	PID	<1ppm
										3.10		
	50	Test Pit discontinued at 3.10m depth. Target depth reached.										

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

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Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.3 AHD
COORDINATE: E:297510.5, N:6256116.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP242
PROJECT No: 207476.06
DATE: 15/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
15/07/24 No free groundwater observed	53 / 0.20	FILL / Silty CLAY: pale grey and brown; medium to high plasticity.		FILL		w=PL		ES		0.20	PID	2ppm
		FILL / Silty CLAY: brown, red-brown and pale grey; low to medium plasticity; with fine to medium sand; trace timber fragments and fine to medium ironstone gravel.						ES		0.30	PID	<1ppm
										0.50		
										0.80		
								ES			PID	1ppm
	1 / 52			FILL	ND	w<PL				1.00		
		From 1.50m: red-brown and pale grey.								1.60		
								ES			PID	4ppm
										1.80		
	2.00 / 51	CLAY (CI-CH): yellow-brown; medium to high plasticity; trace rootlets and fine to medium ironstone gravel.		ALV						2		
								ES		2.10	PID	<1ppm
										2.30		
								* ES			PID	<1ppm
										2.50		
		Test Pit discontinued at 2.60m depth. Target depth reached.										
	3 / 50											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD4/20240715 taken from 2.3-2.5m

OPERATOR: A&A Hire Service
LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

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Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.0 AHD
COORDINATE: E:297558.4, N:6256124.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP243
PROJECT No: 207476.06
DATE: 15/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
15/07/24 No free groundwater observed	53 / 0	FILL / Silty CLAY: pale grey, red-brown and brown; medium to high plasticity; with fine to medium ironstone gravel; trace rootlets (0-0.2m) and fine to medium sand.		FILL		w=PL		ES		0.20	PID	2ppm
	0.30	FILL / Silty Sandy CLAY: pale grey, brown and red-brown; low to medium plasticity; fine to medium sand; with fine to medium ironstone gravel.		FILL		w<PL		ES		0.40	PID	3ppm
	0.60	FILL / Silty CLAY: red-brown and pale grey with brown; medium to high plasticity; with fine to medium ironstone gravel; trace timber fragments and fine to medium sand.		FILL	ND	w=PL		ES		0.60 0.70	PID	3ppm
	52 / 1									0.90 1		
	1.60	FILL / Silty CLAY: grey-brown; low to medium plasticity; with fine to medium sand; trace rootlets.		FILL				ES		1.60	PID	2ppm
	1.70	CLAY (CI-CH): pale red-brown; medium to high plasticity; trace rootlets.		ALV		w<PL		ES		1.70 1.80	PID	<1ppm
	51 / 2									2.00		
								* ES		2.20	PID	<1ppm
										2.40		
	50 / 3	Test Pit discontinued at 2.40m depth. Target depth reached.										

NOTES: (#) Soil origin is "probable" unless otherwise stated. (*) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD3/20240715 taken from 2.2-2.4m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.1 AHD
COORDINATE: E:297588.5, N:6256128.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP244
PROJECT No: 207476.06
DATE: 15/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^]/ DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
15/07/24 No free groundwater observed	53		FILL / Silty Sandy CLAY: pale grey, dark brown and red-brown; low to medium plasticity; fine to medium sand; trace rootlets (0-0.2m), ceramic fragments (0-0.2m) and fine to medium ironstone gravel.		FILL	ND	w=PL		ES		0.20	PID	2ppm
									ES		0.50	PID	2ppm
									ES		0.70		
	52	1							ES		1.00	PID	4ppm
											1.20		
	51	2							ES		2.00	PID	4ppm
		2.20	FILL / Silty CLAY: pale grey-brown; low to medium plasticity; with fine to medium sand; trace rootlets and fine to medium ironstone gravel.		FILL				ES		2.20	PID	1ppm
		2.30	CLAY (CI-CH): red-brown; medium to high plasticity; trace rootlets.		ALV				ES		2.30		
									ES		2.40	PID	<1ppm
											2.60		
									* ES		2.70	PID	<1ppm
	50	3	Test Pit discontinued at 2.90m depth. Target depth reached.								2.90		

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD2/20240715 taken from 2.7-2.9m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

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TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.3 AHD
COORDINATE: E:297555.7, N:6256083.5
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP245
PROJECT No: 207476.06
DATE: 15/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(##)	CONSIS.(*) DENSITY.(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
15/07/24 No free groundwater observed	53 / 0	FILL / Silty CLAY: pale grey and red-brown; medium to high plasticity; with fine to medium ironstone gravel; trace rootlets (0-0.2m) and timber fragments .						ES		0.20	PID	4ppm
		From 0.50m: with fine to medium sand.		FILL		w<PL		ES		0.50 0.70	PID	3ppm
	52 / 1				ND			ES		1.00 1.20	PID	3ppm
	1.80	FILL / Silty CLAY: grey-brown; low to medium plasticity; with fine to medium sand; trace rootlets and fine to medium ironstone gravel.		FILL		w=PL		ES		1.80	PID	<1ppm
	2.00	CLAY (CI-CH): pale orange-brown; medium to high plasticity; with rootlets.		ALV		w<PL		ES		2.00 2.10	PID	<1ppm
	51							ES		2.30 2.40	PID	<1ppm
		Test Pit discontinued at 2.60m depth. Target depth reached.						* ES		2.60		
	50 / 3											

NOTES: (##)Soil origin is "probable" unless otherwise stated. (*)Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD1/20240715 taken from 2.4-2.6m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

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TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.6 AHD
COORDINATE: E:297507.8, N:6256069.4
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP246
PROJECT No: 207476.06
DATE: 10/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
10/07/24 No free groundwater observed	53	FILL / Silty CLAY: red-brown and pale grey; medium to high plasticity; trace plastic, fabric and fine to medium ironstone gravel.		FILL		w=PL		ES		0.20	PID	5ppm
	0.30	FILL / Silty CLAY: pale grey with red-brown; low to medium plasticity; with fine to medium ironstone gravel.						ES		0.40	PID	6ppm
										0.60		
	1	From 1.20m: red-brown and pale brown		FILL	ND	w<PL		ES		0.90	PID	9ppm
	52									1		
										1.10		
								ES		1.70		
	2.00	CLAY (CI-CH): red-brown; medium to high plasticity; with fine to medium ironstone; trace rootlets.		ALV				ES		1.90		
	51									2		
								ES		2.10		
										2.30		
								ES		2.40		
		Test Pit discontinued at 2.60m depth. Target depth reached.								2.60		
	3											
	50											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

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Douglas PARTNERS

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.2 AHD
COORDINATE: E:297605.2, N:6256088.6
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP247
PROJECT No: 207476.06
DATE: 10/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
10/07/24 No free groundwater observed	53 / 0	FILL / Silty Sandy CLAY: pale grey, dark brown and pale red-brown; low to medium plasticity; fine to medium sand; trace rootlets (0-0.2m), timber and fine to medium ironstone gravel.		FILL				ES		0.20	PID	4ppm
	0.40	FILL / Silty CLAY: pale grey and red-brown; medium to high plasticity; with fine to medium ironstone gravel.		FILL		w=PL		ES		0.50	PID	8ppm
										0.70		
	1							ES		0.90 / 1 / 1.10	PID	12ppm
	52 / 1.20	FILL / Silty Sandy CLAY: brown, red-brown and pale grey; low to medium plasticity; fine to medium sand; trace timber fragments, polyethylene pipe fragments and fine to medium ironstone gravel.		FILL	ND	w<PL		ES		1.30	PID	11ppm
										1.50		
	2									2		
	2.10 / 51	FILL / Silty CLAY: grey-brown; low to medium plasticity; with fine to medium sand; trace rootlets.		FILL				ES		2.10	PID	7ppm
	2.30	CLAY (CI-CH): pale orange-brown; medium to high plasticity.		ALV		w=PL		ES		2.30	PID	<1ppm
										2.50		
								* ES		2.60	PID	<1ppm
		Test Pit discontinued at 2.80m depth. Target depth reached.								2.80		
	3 / 50											

NOTES: [#]Soil origin is "probable" unless otherwise stated. [^]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD2/20240710 taken from 2.6-2.8m

OPERATOR: A&A Hire Service
LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.3 AHD
COORDINATE: E:297585.0, N:6256066.2
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP248
PROJECT No: 207476.06
DATE: 10/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
10/07/24 No free groundwater observed	53 / 0	FILL / Silty Sandy CLAY: pale brown, red-brown and dark brown; low to medium plasticity; fine to medium sand; trace rootlets (0-0.2m), timber and fine to medium ironstone gravel.		FILL	ND	w=PL		ES		0.20	PID	7ppm
								ES		0.50	PID	6ppm
										0.70		
	52 / 1							ES		1.00	PID	10ppm
										1.20		
	1.60	FILL / Silty CLAY: grey-brown; low to medium plasticity; with fine to medium sand; trace rootlets.		FILL		M		ES		1.60	PID	8ppm
	1.80	CLAY (CI-CH): pale orange-brown; medium to high plasticity; trace rootlets.		ALV		w=PL		ES		1.90		
	51 / 2									2	PID	<1ppm
								ES		2.10		
										2.20		
								ES		2.40	PID	<1ppm
		Test Pit discontinued at 2.40m depth. Target depth reached.										
	50 / 3											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD3/20240710 taken from 2.2-2.4m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Douglas PARTNERS

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TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.9 AHD
COORDINATE: E:297503.8, N:6256035.7
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP249
PROJECT No: 207476.06
DATE: 10/07/24
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	SAMPLE TYPE	SAMPLE INTERVAL	DEPTH (m)	TESTING AND REMARKS: TEST TYPE	TESTING AND REMARKS: RESULTS AND REMARKS
10/07/24 No free groundwater observed		0.00	FILL / Silty CLAY: brown to dark brown; low to medium plasticity; trace fine to medium igneous, sandstone and ironstone gravel.		FILL		w=PL		ES		0.20	PID	5ppm
	53	0.30	FILL / Silty CLAY: pale grey, orange-brown and pale brown; low to medium plasticity; with fine to medium sand and fine to medium ironstone gravel.		FILL		w<PL		ES		0.50	PID	7ppm
											0.70		
		1							ES		1.00	PID	9ppm
		1.30	FILL / Silty CLAY: red-brown with brown and pale grey; medium to high plasticity; with fine to medium sand.		FILL	ND	w=PL		ES		1.20		
	52										1.40	PID	5ppm
		2							ES		1.60		
		2.20	FILL / Silty CLAY: grey-brown; low to medium plasticity; with fine to medium sand; trace rootlets and fine to medium igneous gravel.		FILL						2		
		2.35	CLAY (CI-CH): pale orange-brown; medium to high plasticity.		ALV		w<PL		ES		2.25	PID	3ppm
											2.35		
									ES		2.40	PID	<1ppm
	51										2.60		
		3							ES		2.80	PID	<1ppm
		3.00	Test Pit discontinued at 3.00m depth. Target depth reached.								3.00		
	50												

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: JC

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.8 AHD
COORDINATE: E:297527.1, N:6256020.5
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP250
PROJECT No: 207476.06
DATE: 10/07/24
SHEET: 1 of 1

GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
10/07/24 No free groundwater observed		0.00	FILL / Silty CLAY: red-brown, brown and pale brown; medium to high plasticity; trace rootlets, plastic and ironstone gravel.		FILL				ES		0.20	PID	6ppm
		0.20	FILL / Silty CLAY: pale grey with red-brown; medium to high plasticity; trace fine to medium ironstone gravel.		FILL				ES		0.30	PID	7ppm
											0.50		
	53	0.80	FILL / Sandy CLAY: pale brown; low to medium plasticity; fine to medium sand; trace fine to medium ironstone gravel.		FILL				ES		0.90	PID	7ppm
		1.00	FILL / Silty CLAY: pale grey with red-brown; medium to high plasticity; trace fine to medium ironstone gravel.		FILL				ES		1.00		
									ES		1.10	PID	8ppm
		1.40	FILL / Silty CLAY: pale grey, pale brown and red-brown; low to medium plasticity; trace fine to medium sand and fine to medium ironstone gravel.		FILL	ND	w=PL		ES		1.30		
	52										1.50	PID	4ppm
											1.70		
		2									2		
		2.20	FILL / Silty CLAY: grey-brown; low to medium plasticity; with fine to medium sand; trace rootlets and fine to medium igneous gravel.		FILL				ES		2.20	PID	4ppm
		2.30	CLAY (CI-CH): pale red-brown; medium to high plasticity.		ALV				ES		2.30		
									ES		2.40		
	51										2.60		
									ES		2.70		
		3	Test Pit discontinued at 2.90m depth. Target depth reached.								2.90		
	50												

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

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TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.6 AHD
COORDINATE: E:297563.1, N:6256025.5
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP251
PROJECT No: 207476.06
DATE: 10/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
10/07/24 No free groundwater observed	53	FILL / Silty CLAY: pale grey, pale brown, brown and red-brown; medium to high plasticity; trace fine to medium ironstone gravel.		FILL	ND	w=PL		ES		0.20	PID	7ppm
								ES		0.50	PID	4ppm
										0.70		
	1							ES		1.00	PID	7ppm
										1.20		
	52											
	1.70	FILL / Silty CLAY: pale grey-brown; low to medium plasticity; with fine to medium sand; trace rootlets.		FILL				ES		1.70	PID	3ppm
	1.80	CLAY (CI-CH): pale red-brown; medium to high plasticity; trace rootlets.		ALV						1.80		
										1.90		
	2							ES		2	PID	<1ppm
										2.10		
								* ES		2.30	PID	<1ppm
		Test Pit discontinued at 2.30m depth. Target depth reached.										
	51											
	3											
	50											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [^] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD4/20240710 taken from 2.1-2.3m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.3 AHD
COORDINATE: E:297618.0, N:6256030.9
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP252
PROJECT No: 207476.06
DATE: 10/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[^] / DENSITY.[^]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
10/07/24 No free groundwater observed	53 / 0.30	FILL / Silty CLAY: red-brown, brown and pale grey; medium to high plasticity; with fine to medium ironstone gravel; trace rootlets.		FILL		w>PL		ES		0.20	PID	6ppm
		FILL / Silty CLAY: pale grey with red-brown and orange-brown; medium to high plasticity; with fine to medium ironstone gravel.		FILL				ES		0.40 0.60	PID	3ppm
	1							ES		0.90 1 1.10	PID	5ppm
	52 / 1.30	FILL / Silty Sandy CLAY: pale brown and red-brown; low to medium plasticity; fine to medium sand; trace fabric and fine to medium ironstone gravel.		FILL	ND	w=PL		ES		1.40 1.60	PID	9ppm
	2 / 2.10	FILL / Silty CLAY: pale brown and grey-brown; low to medium plasticity; with fine to medium sand; trace rootlets.		FILL				ES		2 2.20 2.30	PID	3ppm
	51 / 2.30	CLAY (CI-CH): pale orange-brown; medium to high plasticity; trace rootlets.		ALV				ES ES		2.40 2.60	PID PID	<1ppm <1ppm
		Test Pit discontinued at 2.80m depth. Target depth reached.								2.80		
	3 / 50											

NOTES: [#]Soil origin is "probable" unless otherwise stated. [^]Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS: *Field replicate BD1/20240710 taken from 2.4-2.6m

OPERATOR: A&A Hire Service
LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

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TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 53.4 AHD
COORDINATE: E:297600.5, N:6256005.1
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP253
PROJECT No: 207476.06
DATE: 10/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
10/07/24 No free groundwater observed	53 / 0	FILL / Silty CLAY: red-brown with pale grey; medium to high plasticity; trace rootlets (0-0.2m) and fine to medium ironstone gravel.		FILL	ND	w=PL		ES		0.20	PID	<1ppm
		From 0.50m: red-brown, dark brown and pale grey; with fine to medium sand.						ES		0.50 0.70	PID	3ppm
	52 / 1	From 1.70m: red-brown and brown.						ES		1.00 1.20	PID	2ppm
	1.90	CLAY (CI-CH): pale brown; medium to high plasticity; trace rootlets.		ALV		w<PL		ES		2.00 2.20	PID	<1ppm
	51 / 2							ES		2.30 2.50	PID	<1ppm
		Test Pit discontinued at 2.50m depth. Target depth reached.										
	50 / 3											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

TEST PIT LOG

CLIENT:
PROJECT:
LOCATION: 78 Lockwood Road, Erskine Park

SURFACE LEVEL: 54.8 AHD
COORDINATE: E:297422.3, N:6256226.9
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: TP254
PROJECT No: 207476.06
DATE: 16/07/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED								SAMPLE				TESTING AND REMARKS	
GROUNDWATER	RL (m) / DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN[#]	CONSIS.[*] / DENSITY.[*]	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
16/07/24 No free groundwater observed	54 / 0	FILL / Clayey Silty SAND: red-brown and brown; fine to medium; low to medium plasticity clay; low to medium plasticity silt; trace rootlets, timber fragments, fine to medium igneous and ironstone gravel.		FILL	ND	M		ES		0.20	PID	2ppm
								ES		0.50	PID	<1ppm
										0.70		
	1							ES		1.00	PID	2ppm
										1.20		
	1.50 / 53	FILL / Silty Sandy CLAY: dark grey; low to medium plasticity; fine to medium sand; trace rootlets and fine to medium igneous gravel.		FILL		w>PL		ES		1.60	PID	2ppm
										1.80		
	2									2		
								ES		2.60	PID	3ppm
	52	Test Pit discontinued at 2.80m depth. Limit of excavator.								2.80		
	3											
	51											

NOTES: [#] Soil origin is "probable" unless otherwise stated. [*] Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

PLANT: 5 tonne excavator
METHOD: TB (400)
REMARKS:

OPERATOR: A&A Hire Service

LOGGED: PJ

Refer to explanatory notes for symbol and abbreviation definitions

Generated with CORE-GS by Geroc - Soil Log

Douglas PARTNERS

Terminology, Symbols and Abbreviations

November 2023

Introduction to Terminology, Symbols and Abbreviations

Douglas Partners' reports, investigation logs, and other correspondence may use terminology which has quantitative or qualitative connotations. To remove ambiguity or uncertainty surrounding the use of such terms, the following sets of notes pages may be attached Douglas Partners' reports, depending on the work performed and conditions encountered:

- Soil Descriptions;
- Rock Descriptions; and
- Sampling, insitu testing, and drilling methodologies

In addition to these pages, the following notes generally apply to most documents.

Abbreviation Codes

Site conditions may also be presented in a number of different formats, such as investigation logs, field mapping, or as a written summary. In some of these formats textual or symbolic terminology may be presented using textual abbreviation codes or graphic symbols, and, where commonly used, these are listed alongside the terminology definition. For ease of identification in these note pages, textual codes are presented in these notes in the following style XW. Code usage conforms with the following guidelines:

- Textual codes are case insensitive, although herein they are generally presented in upper case; and
- Textual codes are contextual (i.e. the same or similar combinations of characters may be used in different contexts with different meanings (for example `PL` is used for plastic limit in the context of soil moisture condition, as well as in `PL(A)` for point load test result in the testing results column)).

Data Integrity Codes

Subsurface investigation data recorded by Douglas Partners is generally managed in a highly structured database environment, where records "span" between a top and bottom depth interval. Depth interval "gaps" between records are considered to introduce ambiguity, and, where appropriate, our practice guidelines may require contiguous data sets. Recording meaningful data is not always appropriate (for example assigning a "strength" to a concrete pavement) and the following codes may be used to maintain contiguity in such circumstances.

Term	Description	Abbreviation Code
Core loss	No core recovery	KL
Unknown	Information was not available to allow classification of the property. For example, when auguring in loose, saturated sand auger cuttings may not be returned.	UK
No data	Information required to allow classification of the property was not available. For example if drilling is commenced from the base of a hole predrilled by others	ND
Not Applicable	Derivation of the properties not appropriate or beyond the scope of the investigation. For example providing a description of the strength of a concrete pavement	NA

Graphic Symbols

Douglas Partners' logs contain a "graphic" column which provides a pictorial representation of the basic composition of the material. The symbols used are directly representing the material name stated in the adjacent "Description of Strata" column, and as such no specific graphic symbology legend has been provided in these notes.

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Soil Descriptions

Terminology
Symbols
Abbreviations

March 2024

Introduction

All materials which are not considered to be "in-situ rock" are described in general accordance with the soil description model of AS 1726-2017 Part 6.1.3, and can be broken down into the following description structure:



The "classification" comprises a two character "group symbol" providing a general summary of dominant soil characteristics. The "name" summarises the particle sizes within the soil which most influence its behaviour. The detailed description presents more information about composition, condition, structure, and origin of the soil.

Classification, naming and description of soils require the relative proportion of particles of different sizes within the whole soil mixture to be considered.

Particle size designation and Behaviour Model

Solid particles within a soil are differentiated on the basis of size.

The engineering behaviour properties of a soil can subsequently be modelled to be either "fine grained" (also known as "cohesive" behaviour) or "coarse grained" ("non cohesive" behaviour), depending on the relative proportion of fine or coarse fractions in the soil mixture.

Particle Size Designation	Particle Size (mm)	Behaviour Model	
		Behaviour	Approximate Dry Mass
Boulder	>200	Excluded from particle behaviour model as "oversize"	
Cobble	63 - 200		
Gravel[1]	2.36 - 63	Coarse	>65%
Sand[1]	0.075 - 2.36		
Silt	0.002 - 0.075	Fine	>35%
Clay	<0.002		

[1] – refer grain size subdivision descriptions below

The behaviour model boundaries defined above are not precise, and the material behaviour should be assumed from the name given to the material (which considers the particle fraction which dominates the behaviour, refer "component proportions" below), rather than strict observance of the proportions of particle sizes. For example, if a material is named a "Sandy CLAY", this is indicative that the material exhibits fine grained behaviour, even if the dry mass of coarse grained material may exceed 65%.

Component proportions

The relative proportion of the dry mass of each particle size fraction is assessed to be a "primary", "secondary", or "minor" component of the soil mixture, depending on its influence over the soil behaviour.

Component Proportion Designation	Definition[1]	Relative Proportion	
		In Fine Grained Soil	In Coarse Grained Soil
Primary	The component (particle size designation, refer above) which dominates the engineering behaviour of the soil	The clay/silt component with the greater proportion	The sand/gravel component with the greater proportion
Secondary	Any component which is not the primary, but is significant to the engineering properties of the soil	Any component with greater than 30% proportion	Any granular component with greater than 30%; or Any fine component with greater than 12%
Minor[2]	Present in the soil, but not significant to its engineering properties	All other components	All other components

[1] As defined in AS1726-2017 6.1.4.4

[2] In the detailed material description, minor components are split into two further sub-categories. Refer "identification of minor components" below.

Composite Materials

In certain situations, a lithology description may describe more than one material, for example, collectively describing a layer of interbedded sand and clay. In such a scenario, the two materials would be described independently, with the names preceded or followed by a statement describing the arrangement by which the materials co-exist. For example, "INTERBEDDED Silty CLAY AND SAND".

Soil Descriptions

Classification

The soil classification comprises a two character group symbol. The first character identifies the primary component. The second character identifies either the grading or presence of fines in a coarse grained soil, or the plasticity in a fine grained soil. Refer AS1726-2017 6.1.6 for further clarification.

Soil Name

For most soils, the name is derived with the primary component included as the noun (in upper case), preceded by any secondary components stated in an adjective form. In this way, the soil name also describes the general composition and indicates the dominant behaviour of the material.

Component [1]	Prominence in Soil Name
Primary	Noun (eg "CLAY")
Secondary	Adjective modifier (eg "Sandy")
Minor	No influence

[1] – for determination of component proportions, refer component proportions on previous page

For materials which cannot be disaggregated, or which are not comprised of rock or mineral fragments, the names "ORGANIC MATTER" or "ARTIFICIAL MATERIAL" may be used, in accordance with AS1726-2017 Table 14.

Commercial or colloquial names are not used for the soil name where a component derived name is possible (for example "Gravelly SAND" rather than "CRACKER DUST").

Materials of "fill" or "topsoil" origin are generally assigned a name derived from the primary/secondary component (where appropriate). In log descriptions this is preceded by uppercase "FILL" or "TOPSOIL". Origin uncertainty is indicated in the description by the characters (?), with the degree of uncertainty described (using the terms "probably" or "possibly" in the origin column, or at the end of the description).

Identification of minor components

Minor components are identified in the soil description immediately following the soil name. The minor component fraction is usually preceded with a term indicating the relative proportion of the component.

Minor Component Proportion Term	Relative Proportion	
	In Fine Grained Soil	In Coarse Grained Soil
With	All fractions: 15-30%	Clay/silt: 5-12% sand/gravel: 15-30%
Trace	All fractions: 0-15%	Clay/silt: 0-5% sand/gravel: 0-15%

The terms "with" and "trace" generally apply only to gravel or fine particle fractions. Where cobbles/boulders are encountered in minor proportions (generally less than about 12%) the term "occasional" may be used. This term describes the sporadic distribution of the material within the confines of the investigation excavation only, and there may be considerable variation in proportion over a wider area which is difficult to factually characterise due to the relative size of the particles and the investigation methods.

Soil Composition

Plasticity

Descriptive Term	Laboratory liquid limit range	
	Silt	Clay
Non-plastic materials	Not applicable	Not applicable
Low plasticity	≤50	≤35
Medium plasticity	Not applicable	>35 and ≤50
High plasticity	>50	>50

Note, Plasticity descriptions generally describe the plasticity behaviour of the whole of the fine grained soil, not individual fine grained fractions.

Grain Size

Type		Particle size (mm)
Gravel	Coarse	19 - 63
	Medium	6.7 - 19
	Fine	2.36 – 6.7
Sand	Coarse	0.6 - 2.36
	Medium	0.21 - 0.6
	Fine	0.075 - 0.21

Grading

Grading Term	Particle size (mm)
Well	A good representation of all particle sizes
Poorly	An excess or deficiency of particular sizes within the specified range
Uniformly	Essentially of one size
Gap	A deficiency of a particular size or size range within the total range

Note, AS1726-2017 provides terminology for additional attributes not listed here.

Soil Condition

Moisture

The moisture condition of soils is assessed relative to the plastic limit for fine grained soils, while for coarse grained soils it is assessed based on the appearance and feel of the material. The moisture condition of a material is considered to be independent of stratigraphy (although commonly these are related), and this data is presented in its own column on logs.

Applicability	Term	Tactile Assessment	Abbreviation code
Fine	Dry of plastic limit	Hard and friable or powdery	w<PL
	Near plastic limit	Can be moulded	w=PL
	Wet of plastic limit	Water residue remains on hands when handling	w>PL
	Near liquid limit	"oozes" when agitated	w=LL
	Wet of liquid limit	"oozes"	w>LL
Coarse	Dry	Non-cohesive and free running	D
	Moist	Feels cool, darkened in colour, particles may stick together	M
	Wet	Feels cool, darkened in colour, particles may stick together, free water forms when handling	W

The abbreviation code NDF, meaning "not-assessable due to drilling fluid use" may also be used.

Note, observations relating to free ground water or drilling fluids are provided independent of soil moisture condition.

Consistency/Density/Compaction/Cementation/Extremely Weathered Material

These concepts give an indication of how the material may respond to applied forces (when considered in conjunction with other attributes of the soil). This behaviour can vary independent of the composition of the material, and on logs these are described in an independent column and are generally mutually exclusive (i.e it is inappropriate to describe both consistency and compaction at the same time). The method by which the behaviour is described depends on the behaviour model and other characteristics of the soil as follows:

- In fine grained soils, the "consistency" describes the ease with which the soil can be remoulded, and is generally correlated against the materials undrained shear strength;
- In granular materials, the relative density describes how tightly packed the particles are, and is generally correlated against the density index;
- In anthropogenically modified materials, the compaction of the material is described qualitatively;
- In cemented soils (both natural and anthropogenic), the cemented "strength" is described qualitatively, relative to the difficulty with which the material is disaggregated; and
- In soils of extremely weathered material origin, the engineering behaviour may be governed by relic rock features, and expected behaviour needs to be assessed based the overall material description.

Quantitative engineering performance of these materials may be determined by laboratory testing or estimated by correlated field tests (for example penetration or shear vane testing). In some cases, performance may be assessed by tactile or other subjective methods, in which case investigation logs will show the estimated value enclosed in round brackets, for example (VS).

Consistency (fine grained soils)

Consistency Term	Tactile Assessment	Undrained Shear Strength (kPa)	Abbreviation Code
Very soft	Extrudes between fingers when squeezed	<12	VS
Soft	Mouldable with light finger pressure	>12 - ≤25	S
Firm	Mouldable with strong finger pressure	>25 - ≤50	F
Stiff	Cannot be moulded by fingers	>50 - ≤100	St
Very stiff	Indented by thumbnail	>100 - ≤200	VSt
Hard	Indented by thumbnail with difficulty	>200	H
Friable	Easily crumbled or broken into small pieces by hand	-	Fr

Relative Density (coarse grained soils)

Relative Density Term	Density Index	Abbreviation Code
Very loose	<15	VL
Loose	>15 - ≤35	L
Medium dense	>35 - ≤65	MD
Dense	>65 - ≤85	D
Very dense	>85	VD

Note, tactile assessment of relative density is difficult, and generally requires penetration testing, hence a tactile assessment guide is not provided.

Compaction (anthropogenically modified soil)

Compaction Term	Abbreviation Code
Well compacted	WC
Poorly compacted	PC
Moderately compacted	MC
Variably compacted	VC

Cementation (natural and anthropogenic)

Cementation Term	Abbreviation Code
Moderately cemented	MOD
Weakly cemented	WEK

Extremely Weathered Material

AS1726-2017 considers weathered material to be soil if the unconfined compressive strength is less than 0.6 MPa (i.e. less than very low strength rock). These materials may be identified as "extremely weathered material" in reports and by the abbreviation code XWM on log sheets. This identification is not correlated to any specific qualitative or quantitative behaviour, and the engineering properties of this material must therefore be assessed according to engineering principles with reference to any relic rock structure, fabric, or texture described in the description.

Soil Origin

Term	Description	Abbreviation Code
Residual	Derived from in-situ weathering of the underlying rock	RS
Extremely weathered material	Formed from in-situ weathering of geological formations. Has strength of less than 'very low' as per as1726 but retains the structure or fabric of the parent rock.	XWM
Alluvial	Deposited by streams and rivers	ALV
Fluvial	Deposited by channel fill and overbank (natural levee, crevasse splay or flood basin)	FLV
Estuarine	Deposited in coastal estuaries	EST
Marine	Deposited in a marine environment	MAR
Lacustrine	Deposited in freshwater lakes	LAC
Aeolian	Carried and deposited by wind	AEO
Colluvial	Soil and rock debris transported down slopes by gravity	COL
Slopewash	Thin layers of soil and rock debris gradually and slowly deposited by gravity and possibly water	SW
Topsoil	Mantle of surface soil, often with high levels of organic material	TOP
Fill	Any material which has been moved by man	FILL
Littoral	Deposited on the lake or seashore	LIT
Unidentifiable	Not able to be identified	UID

Cobbles and Boulders

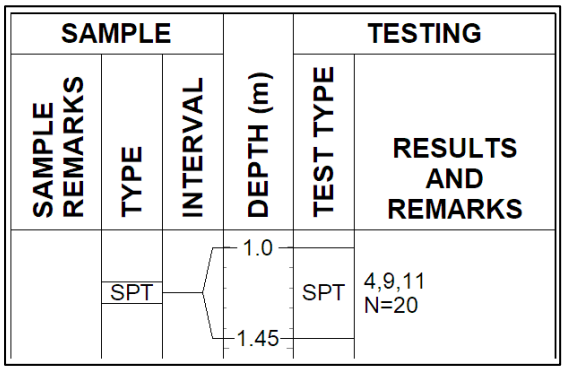
The presence of particles considered to be "oversize" may be described using one of the following strategies:

- Oversize encountered in a minor proportion (when considered relative to the wider area) are noted in the soil description; or
- Where a significant proportion of oversize is encountered, the cobbles/boulders are described independent of the soil description, in a similar manner to composite soils (described above) but qualified with "MIXTURE OF".

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Sampling and Testing

A record of samples retained, and field testing performed is usually shown on a Douglas Partners' log with samples appearing to the left of a depth scale, and selected field and laboratory testing (including results, where relevant) appearing to the right of the scale, as illustrated below:



Sampling

The type or intended purpose for which a sample was taken is indicated by the following abbreviation codes.

Sample Type	Code
Auger sample	A
Acid Sulfate sample	ASS
Bulk sample	B
Core sample	C
Disturbed sample	D
Environmental sample	ES
Driven Tube sample	DT
Gas sample	G
Piston sample	P
Sample from SPT test	SPT
Undisturbed tube sample	U[1]
Water sample	W
Material Sample	MT
Core sample for unconfined compressive strength testing	UCS

[1] – numeric suffixes indicate tube diameter/width in mm

The above codes only indicate that a sample was retained, and not that testing was scheduled or performed.

Field and Laboratory Testing

A record that field and laboratory testing was performed is indicated by the following abbreviation codes.

Test Type	Code
Pocket penetrometer (kPa)	PP
Photo ionisation detector (ppm)	PID
Standard Penetration Test x/y =*x* blows for *y* mm penetration HB = hammer bouncing HW = fell under weight of hammer	SPT
Shear vane (kPa)	V
Unconfined compressive strength, (MPa)	UCS
Point load test, (MPa), axial (A), diametric (D), irregular (I)	PLT(_)
Dynamic cone penetrometer, followed by blow count penetration increment in mm (cone tip, generally in accordance with AS1289.6.3.2)	DCP9/150
Perth sand penetrometer, followed by blow count penetration increment in mm (flat tip, generally in accordance with AS1289.6.3.3)	PSP/150
Dynamic probe super heavy, followed by blow count penetration increment in mm	DPSH/100

Groundwater Observations

	water seepage/inflow
	water seepage/outflow
	standing or observed water level
NFGWO	no free groundwater observed
OBS	observations obscured by drilling fluids

Drilling or Excavation Methods/Tools

The drilling/excavation methods used to perform the investigation may be shown either in a dedicated column down the left-hand edge of the log, or stated in the log footer. In some circumstances abbreviation codes may be used.

Method	Abbreviation Code
Direct Push	DP
Solid flight auger. Suffixes: /T = tungsten carbide tip, /V = v-shaped tip	AD[1]
Air Track	AT
Diatube	DT[1]
Hand auger	HA[1]
Hand tools (unspecified)	HAND
Existing exposure	X
Hollow flight auger	HSA[1]
HQ coring	HQ3
HMLC series coring	HMLC
NMLC series coring	NMLC
NQ coring	NQ3
PQ coring	PQ3
Predrilled	PD
Push tube	PT[1]
Ripping tyne/ripper	R
Rock roller	RR[1]
Rock breaker/hydraulic hammer	EH
Sonic drilling	SON[1]
Mud/blade bucket	MB[1]
Toothed bucket	TB[1]
Vibrocore	VC[1]
Vacuum excavation	VE
Wash bore (unspecified bit type)	WB[1]

[1] – numeric suffixes indicate tool diameter/width in mm

Appendix I2

Asbestos Sieving Records

Douglas PARTNERS | GROUNDED EXPERTISE

RECORD OF ASBESTOS SAMPLES

Project:	**Project Number:** 207476.06
Client:	**Date:** 10-16/7/24
Location: 78 Lockwood Road, Erskine Park	**Field Staff:** PJ, JC, NW

Sample ID	Sample Type	Sample Depth (m)	Weight of 10 L Bulk Sample (g)	Number of Fragments >7 mm	Condition of Fragments (good/ poor)	Size range of fragments (mm)	Weight of ACM and FA collected (g)
201	Soil	0.0 - 0.2	19970	0	-	-	-
202	Soil	0.0 - 0.2	21400	0	-	-	-
203	Soil	0.0 - 0.2	17990	0	-	-	-
205	Soil	0.0 - 0.2	17240	0	-	-	-
206	Soil	0.0 - 0.2	20250	0	-	-	-
207	Soil	0.0 - 0.2	18110	0	-	-	-
207	Soil	1.0 - 1.2	20100	0	-	-	-
207	Soil	2.0 - 2.2	18170	0	-	-	-
208	Soil	0.0 - 0.2	20100	0	-	-	-
208	Soil	0.9 - 1.1	19750	0	-	-	-
208	Soil	1.9 - 2.1	17060	0	-	-	-
208	Soil	2.8 - 3.0	18810	0	-	-	-
209	Soil	0.0 - 0.2	19940	0	-	-	-
209	Soil	1.5 - 1.7	18180	0	-	-	-
209	Soil	2.5 - 2.7	19550	0	-	-	-

Douglas PARTNERS | GROUNDED EXPERTISE

RECORD OF ASBESTOS SAMPLES

Project:	**Project Number:** 207476.06
Client:	**Date:** 10-16|7|24
Location: 78 Lockwood Road, Erskine Park	**Field Staff:** RJ, NW, JC

Sample ID	Sample Type	Sample Depth (m)	Weight of 10 L Bulk Sample (g)	Number of Fragments >7 mm	Condition of Fragments (good/ poor)	Size range of fragments (mm)	Weight of ACM and FA collected (g)
210	Soil	0.0 - 0.2	20010	0	-	-	-
210	Soil	1.0 - 1.2	19840	0	-	-	-
210	Soil	1.7 - 1.9	18660	0	-	-	-
210	Soil	2.7 - 2.9	19410	0	-	-	-
211	Soil	0.0 - 0.2	18950	0	-	-	-
211	Soil	0.9 - 1.1	20150	0	-	-	-
212	Soil	0.0 - 0.2	18770	0	-	-	-
212	Soil	1.0 - 1.2	18450	0	-	-	-
212	Soil	2.0 - 2.2	19540	0	-	-	-
213	Soil	0.0 - 0.2	20190	0	-	-	-
213	Soil	0.8 - 0.9	16990	0	-	-	-
214	Soil	0.0 - 0.2	20810	0	-	-	-
214	Soil	0.9 - 1.1	19720	0	-	-	-
214	Soil	1.9 - 2.1	18720	0	-	-	-
215	Soil	0.0 - 0.2	19210	0	-	-	-

Douglas PARTNERS | GROUNDED EXPERTISE

RECORD OF ASBESTOS SAMPLES

Project:	**Project Number:** 207476.06
Client:	**Date:** 10-16/7/24
Location: 78 Lockwood Road, Erskine Park	**Field Staff:** PJ, NW, JC

Sample ID	Sample Type	Sample Depth (m)	Weight of 10 L Bulk Sample (g)	Number of Fragments >7 mm	Condition of Fragments (good/ poor)	Size range of fragments (mm)	Weight of ACM and FA collected (g)
216	Soil	0.0-0.2	19560	0	-	-	-
216	Soil	0.5-0.7	18760	0	-	-	-
216	Soil	0.8-1.0	19950	0	-	-	-
216	Soil	1.3-1.5	18690	0	-	-	-
216	Soil	1.8-2.0	19550	0	-	-	-
216	Soil	2.4-2.6	18560	0	-	-	-
217	Soil	0.0-0.2	19220	0	-	-	-
217	Soil	0.9-1.1	19900	0	-	-	-
217	Soil	2.15-2.35	18294	0	-	-	-
218	Soil	0.0-0.2	19220	0	-	-	-
218	Soil	1.0-1.2	18970	0	-	-	-
219	Soil	0.0-0.2	18950	0	-	-	-
219	Soil	0.9-1.1	19990	0	-	-	-
219	Soil	1.6-1.8	18750	0	-	-	-
220	Soil	0.0-0.2	18750	0	-	-	-

Douglas PARTNERS | GROUNDED EXPERTISE

RECORD OF ASBESTOS SAMPLES

Project:	**Project Number:** 207476.06
Client:	**Date:** 10-16/7/24
Location: 78 Lockwood Road, Erskine Park	**Field Staff:** PJ, NW, JC

Sample ID	Sample Type	Sample Depth (m)	Weight of 10 L Bulk Sample (g)	Number of Fragments >7 mm	Condition of Fragments (good/ poor)	Size range of fragments (mm)	Weight of ACM and FA collected (g)
221	Soil	0.0-0.2	20000	0	-	-	-
221	Soil	1.25-1.35	19970	0	-	-	-
222	Soil	0.0-0.2	18640	0	-	-	-
222	Soil	0.8-1.0	20000	0	-	-	-
222	Soil	1.8-1.9	19450	0	-	-	-
223	Soil	0.0-0.2	19550	0	-	-	-
223	Soil	0.8-1.0	18540	0	-	-	-
223	Soil	1.8-2.0	17450	0	-	-	-
223	Soil	3.1-3.3	18850	0	-	-	-
224	Soil	0.0-0.2	18720	0	-	-	-
225	Soil	0.0-0.2	18770	0	-	-	-
225	Soil	1.0-1.2	19700	0	-	-	-
225	Soil	1.9-2.1	18550	0	-	-	-
226	Soil	0.0-0.2	18620	0	-	-	-
226	Soil	1.0-1.2	19210	0	-	-	-

Douglas PARTNERS GROUNDED EXPERTISE

RECORD OF ASBESTOS SAMPLES

Project:	**Project Number:** 207476.06
Client:	**Date:** 10-16/7/24
Location: 78 Lockwood Road, Erskine Park	**Field Staff:** PJ, NW, JC

Sample ID	Sample Type	Sample Depth (m)	Weight of 10 L Bulk Sample (g)	Number of Fragments >7 mm	Condition of Fragments (good/ poor)	Size range of fragments (mm)	Weight of ACM and FA collected (g)
227	Soil	0.0-0.2	18990	0	-	-	-
227	Soil	1.0-1.2	18570	0	-	-	-
227	Soil	1.8-2.0	19900	0	-	-	-
228	Soil	0.0-0.2	18260	0	-	-	-
228	Soil	1.0-1.2	19210	0	-	-	-
229	Soil	0.0-0.2	19220	0	-	-	-
229	Soil	1.0-1.2	18470	0	-	-	-
229	Soil	1.9-2.1	19000	0	-	-	-
230	Soil	0.0-0.2	19910	0	-	-	-
230	Soil	1.0-1.2	20000	0	-	-	-
230	Soil	2.0-2.2	~~18410~~ 18410	0	-	-	-
231	Soil	0.0-0.2	18210	0	-	-	-
231	Soil	0.8-1.0	17990	0	-	-	-
231	Soil	2.2-2.4	20100	0	-	-	-
232	Soil	0.0-0.2	18610	0	-	-	-

Douglas PARTNERS GROUNDED EXPERTISE

RECORD OF ASBESTOS SAMPLES

Project:	**Project Number:** 207476.06
Client:	**Date:** 10-16|7|24
Location: 78 Lockwood Road, Erskine Park	**Field Staff:** PJ, NW, JC

Sample ID	Sample Type	Sample Depth (m)	Weight of 10 L Bulk Sample (g)	Number of Fragments >7 mm	Condition of Fragments (good/ poor)	Size range of fragments (mm)	Weight of ACM and FA collected (g)
232	Soil	1.0-1.2	17990	0	-	-	-
233	Soil	0.0-0.2	19640	0	-	-	-
233	Soil	1.0-1.2	18400	0	-	-	-
234	Soil	0.0-0.2	19700	0	-	-	-
234	Soil	0.8-1.0	18310	0	-	-	-
234	Soil	1.8-2.0	19940	0	-	-	-
235	Soil	0.0-0.2	18690	0	-	-	-
235	Soil	0.8-1.0	19330	0	-	-	-
235	Soil	1.7-1.9	18640	0	-	-	-
236	Soil	0.0-0.2	19320	0	-	-	-
236	Soil	0.8-1.0	18110	0	-	-	-
237	Soil	0.0-0.2	18440	0	-	-	-
237	Soil	0.8-1.0	19100	0	-	-	-
237	Soil	1.8-2.0	20140	0	-	-	-
238	Soil	0.0-0.2	19730	0	-	-	-

Douglas PARTNERS GROUNDED EXPERTISE

RECORD OF ASBESTOS SAMPLES

Project:	**Project Number:** 207476.06
Client:	**Date:** 10-16/7/24
Location: 78 Lockwood Road, Erskine Park	**Field Staff:** PJ, NW, JC

Sample ID	Sample Type	Sample Depth (m)	Weight of 10 L Bulk Sample (g)	Number of Fragments >7 mm	Condition of Fragments (good/ poor)	Size range of fragments (mm)	Weight of ACM and FA collected (g)
238	Soil	0.8-1.0	197330	0	-	-	-
239	Soil	0.0-0.2	19180	0	-	-	-
239	Soil	1.0-1.2	18870	0	-	-	-
239	Soil	1.8-2.0	18930	0	-	-	-
240	Soil	0.0-0.2	18490	0	-	-	-
240	Soil	0.8-1.0	18470	0	-	-	-
240	Soil	1.8-2.0	19760	0	-	-	-
241	Soil	0.0-0.2	20110	0	-	-	-
241	Soil	1.0-1.2	19620	0	-	-	-
241	Soil	2.0-2.2	18960	0	-	-	-
242	Soil	0.0-0.2	18730	0	-	-	-
242	Soil	0.8-1.0	19210	0	-	-	-
243	Soil	0.0-0.2	18720	0	-	-	-
243	Soil	0.7-0.9	19240	0	-	-	-
244	Soil	0.0-0.2	18590	0	-	-	-

Douglas PARTNERS GROUNDED EXPERTISE

RECORD OF ASBESTOS SAMPLES

Project:	**Project Number:** 207476.06
Client:	**Date:** ~~10/~~ 10-16/7/24
Location: 78 Lockwood Road, Erskine Park	**Field Staff:** PJ, ~~AHH~~ NW, JC

Sample ID	Sample Type	Sample Depth (m)	Weight of 10 L Bulk Sample (g)	Number of Fragments >7 mm	Condition of Fragments (good/ poor)	Size range of fragments (mm)	Weight of ACM and FA collected (g)
244	Soil	1.0-1.2	18240	0	-	-	-
244	Soil	2.0-2.2	18470	0	-	-	-
245	Soil	0.0-0.2	19570	0	-	-	-
245	Soil	1.0-1.2	18970	0	-	-	-
246	Soil	0.0-0.2	19220	0	-	-	-
247	Soil	0.0-0.2	19240	0	-	-	-
247	Soil	0.9-1.1	18770	0	-	-	-
247	Soil	1.3-1.5	19000	0	-	-	-
247	Soil	2.1-2.3	16242	0	-	-	-
248	Soil	0.0-0.2	18200	0	-	-	-
248	Soil	1.0-1.2	20090	0	-	-	-
248	Soil	1.6-1.8	17620	0	-	-	-
249	Soil	0.0-0.2	18800	0	-	-	-
249	Soil	1.0~~5~~-1.2	18950	0	-	-	-
249	Soil	2.25-2.35	18040	0	-	-	-

Douglas PARTNERS | GROUNDED EXPERTISE

RECORD OF ASBESTOS SAMPLES

Project:	**Project Number:** 207476.06
Client:	**Date:** 10-16|7|24
Location: 78 Lockwood Road, Erskine Park	**Field Staff:** PJ, NW, JC

Sample ID	Sample Type	Sample Depth (m)	Weight of 10 L Bulk Sample (g)	Number of Fragments >7 mm	Condition of Fragments (good/ poor)	Size range of fragments (mm)	Weight of ACM and FA collected (g)
250	Soil	0.0-0.2	18240	0	-	-	-
250	Soil	0.9-1.1	19020	0	-	-	-
250	Soil	2.2-2.3	17090	0	-	-	-
251	Soil	0.0-0.2	19020	0	-	-	-
251	Soil	1.0-1.2	18420	0	-	-	-
251	Soil	1.7-1.8	16040	0	-	-	-
252	Soil	0.0-0.2	18070	0	-	-	-
252	Soil	0.9-1.1	19220	0	-	-	-
252	Soil	2.2-2.3	17400	0	-	-	-
253	Soil	0.0-0.2	18320	0	-	-	-
253	Soil	1.0-1.2	19610	0	-	-	-
254	Soil	0.0-0.2	18880	0	-	-	-
254	Soil	1.0-1.2	18840	0	-	-	-
254	Soil	1.6-1.8	17800	0	-	-	-
254	Soil	2.6-2.8	19710	0	-	-	-

Appendix I3

Calibration Sheets

WAMSCIENTIFIC
Your water and air monitoring equipment specialists

Certificate of Service and Calibration
Gas Detector
MiniRAE Lite+

Company Name	WAM Scientific
Office Address	26 Bungarra Crescent, Chipping Norton NSW 2170
Phone Number	+61 405 241 484
Contact Name	William Pak
Instrument	MiniRAE Lite+ (PGM 7300)
Serial Number	595-004553
Client Name	Johann Chalache/Cathy Li (Douglas Partners Pty Ltd)
Project Number	SY282953

Instrument Check			
Item	Test	Test Passed	Comments
Li-Ion Rechargeable Battery	Battery Charge and Drain	✓	Unit runs for > 8 hours on a full charge
Charger and Power Supply	Operation/Check	✓	No damage
Unit Display	Operation	✓	Screen visible, no damage
Keypad	Operation	✓	Responsive, no damage
Pump	Flow Check	✓	Flow rate > 0.5 L/min
Monitor Housing	Condition/Check	✓	No damage
Rubber Boot	Check	✓	Clean, no damage
Flexi Probe	Condition/Check	✓	No leaks, no damage
Water Trap Filter	Visual Check	✓	Clean
Alarms	Audible, Visual, Vibration Check	✓	All modes of alarms are functional
Data Logger	Operation	✓	Unit records data, default set at 60 seconds
Lamp and Sensor	Clean and Calibration	✓	Lamp and PID sensor cleaned and calibrated
PCB	Operation	✓	Unit is fully functional
Firmware	Version	✓	v2.20A

Instrument Readings					
Parameter	Calibration Gas	Concentration	Reference No.	Zero Reading	Span Reading
PID (10.6eV)	Isobutylene	100 ppm	WO249314-15	0 ppm	100.3 ppm

Declaration
WAM Scientific certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The calibration data supplied was obtained in accordance with manufacturer's specifications using gases of known concentrations.

Calibrated By	William Pak
Calibration Date	01/05/2024
Calibration Due	01/11/2024

WAMSCIENTIFIC
Your water and air monitoring equipment specialists

WAM Scientific:
26 Bungarra Crescent
CHIPPING NORTON NSW 2170
T: +61 405 241 484 | +61 424 198 667
E: rentals@wamscientific.com.au
E: accounts@wamscientific.com.au

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: 78 Lockwood Road, Erskine Park

Project Number: 207476.06

Calibrated Equipment

Model: Honeywell Miniae Lite

Serial No.: 590-004553

DP Reference: P103

Other: 10.6eV Lamp

Calibration

Date(s): 10/7/24 Operator(s): PT

Zero Gas: ambient air

Span Gas: isobutylene

Span Gas Concentration: 100

Response Factor: 1.0

Pre-calibration Reading 92.6

Post-calibration Reading 100.1

Approved: PT

Date: 10/7/24

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: 78 Lockwood Road, Erskine Park
Project Number: 207476.06

Calibrated Equipment
Model: Honeywell Minirae Lite
Serial No.: 590-004553
DP Reference: PID3
Other: 10.6eV Lamp

Calibration

Date(s): 11/7/24	Operator(s): PT
Zero Gas:	ambient air
Span Gas:	isobutylene
Span Gas Concentration:	100
Response Factor:	1.0
Pre-calibration Reading	100.7
Post-calibration Reading	100.0

Approved: PT
Date: 11/7/24

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: 78 Lockwood Road, Erskine Park
Project Number: 203476.06

Calibrated Equipment
Model: Honeywell Minirae Lite
Serial No.: 590-004553
DP Reference: P103
Other: 10.6eV Lamp

Calibration

Date(s): 12/7/24	Operator(s): PT
Zero Gas:	ambient air
Span Gas:	isobutylene
Span Gas Concentration:	100
Response Factor:	1.0
Pre-calibration Reading	107.2
Post-calibration Reading	100.0

Approved: PT
Date: 12/7/24

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: 78 Lockwood Road, Erskine Park
Project Number: 207476-06

Calibrated Equipment

Model: Honeywell Minirae Lite
Serial No.: 590-004553
DP Reference: P103
Other: 10.6eV Lamp

Calibration

Date(s): 15/7/24 Operator(s): PT
Zero Gas: ambient air
Span Gas: isobutylene
Span Gas Concentration: 100
Response Factor: 1.0
Pre-calibration Reading 99.6
Post-calibration Reading 100.0

Approved: 15/7/24
Date: PT

Douglas Partners
Geotechnics | Environment | Groundwater

CALIBRATION RECORD

Project: 78 Lockwood Road, Ershire Park
Project Number: 207476.06

Calibrated Equipment
Model: Honeywell Minirae Lite
Serial No.: 590-004553
DP Reference: P103
Other: 10.6eV Lamp

Calibration
Date(s): 16/7/24 Operator(s): PT
Zero Gas: ambient air
Span Gas: isobutylene
Span Gas Concentration: 100
Response Factor: 1.0
Pre-calibration Reading 101.2
Post-calibration Reading 100.1

Approved: PT
Date: 16/7/24

Appendix J

Laboratory Results Summary Tables

Table J1: Summary of Soil Chemical Laboratory Results

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	Metals								TRH												TPH					
				Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	TRH C6 - C9	TRH C6 - C10	TRH C10 - C14	TRH C15 - C28	TRH C29 - C36	Total +ve TRH (C10-C36)	TRH >C10-C16	F1 (vTRH C6 - C10 less BTEX)	F2 (TRH >C10-C16 less Naphthalene)	F3 (TRH >C16-C34)	F4 (TRH >C34-C40)	Total +ve TRH (>C10-C40)	TPH C10-C14	TPH C15-C28	TPH C29-C36	TPH>C10-C16	TPH>C16-C34	TPH>C34-C40
NEMP 2013 Commercial/Industrial - Soil HIL-D and Direct Contact				3000	900	3600	240000	1500	730	6000	400000								26000	20000	27000	38000					20000	27000	38000
NEPM 2013 Commercial/Industrial - Soil HSL-D																			310	NL							NL		
NEPM 2013 Commercial/Industrial - ML-D																			800	1000	5000	10000					1000	5000	10000
NEPM 2013 Commercial/Industrial - Soil EIL/ESL and HEPA 2020 EGV				160		680	300	1800		310	730								215	170	2500	6600					170	2500	6600
HEPA 2020, EGV (Indirect)																													
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL				4	0.4	1	1	1	0.1	1	1	25	25	50	100	100	50	50	25	50	100	100	50	50	100	100	50	100	100
TP201	0-0.2	12/07/2024	Fill	**6**	<0.4	**18**	**8**	**15**	<0.1	**5**	**8**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP201	0.8-1	12/07/2024	Natural	**8**	<0.4	**10**	**15**	**12**	<0.1	**<1**	**7**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP202	0-0.2	12/07/2024	Fill	**8**	<0.4	**17**	**8**	**16**	<0.1	**6**	**14**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP203	0-0.2	12/07/2024	Fill	**6**	<0.4	**15**	**15**	**12**	<0.1	**6**	**19**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP203	0.9-1.1	12/07/2024	Natural	**<4**	<0.4	**3**	**9**	**7**	<0.1	**<1**	**6**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
BD5/20240712^	0.9-1.1	12/07/2024	Natural	**8**	<0.4	**10**	**15**	**15**	<0.1	**2**	**9**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP205	0-0.2	12/07/2024	Fill	**4**	<0.4	**13**	**38**	**18**	<0.1	**12**	**59**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP205	0.8-1	12/07/2024	Natural	**<4**	<0.4	**3**	**21**	**10**	<0.1	**3**	**26**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
BD4/20240712*	0.8-1	12/07/2024	Natural	**<5**	<1	**4**	**14**	**9**	<0.1	**3**	**28**	<10	-	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-
TP206	1.2-1.4	12/07/2024	Natural	**<4**	<0.4	**14**	**57**	**23**	<0.1	**53**	**170**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20240712*	1.2-1.4	12/07/2024	Natural	<5	<1	**13**	**31**	**28**	<0.1	**8**	**49**	<10	-	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-
TP207	0-0.2	16/07/2024	Fill	**11**	<0.4	**22**	**10**	**18**	<0.1	**9**	**25**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP207	1-1.2	16/07/2024	Fill	**6**	<0.4	**17**	**13**	**21**	<0.1	**6**	**30**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP207	2-2.2	16/07/2024	Fill	**<4**	<0.4	**10**	**5**	**13**	<0.1	**3**	**9**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP208	0-0.2	16/07/2024	Fill	**7**	<0.4	**16**	**9**	**15**	<0.1	**6**	**26**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP208	2.8-3	16/07/2024	Fill	**7**	<0.4	**18**	**5**	**21**	<0.1	**3**	**10**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP209	0-0.2	16/07/2024	Fill	**10**	<0.4	**20**	**12**	**19**	<0.1	**8**	**23**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP209	1.5-1.7	16/07/2024	Fill	**8**	<0.4	**20**	**9**	**18**	<0.1	**8**	**22**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP209	2.5-2.7	16/07/2024	Fill	**12**	<0.4	**17**	**17**	**16**	<0.1	**7**	**39**	<25	<25	<50	**240**	**360**	**600**	**66**	**<25**	**66**	**480**	**260**	**810**	<50	<100	<100	<50	<100	<100
TP210	0-0.2	16/07/2024	Fill	**7**	<0.4	**18**	**9**	**19**	<0.1	**4**	**21**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP210	1-1.2	16/07/2024	Fill	**6**	<0.4	**15**	**7**	**17**	<0.1	**5**	**16**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP210	2.7-2.9	16/07/2024	Fill	**11**	<0.4	**27**	**6**	**17**	<0.1	**6**	**15**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP211	0-0.2	12/07/2024	Fill	**9**	<0.4	**9**	**10**	**13**	<0.1	**2**	**9**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP211	1.8-2	12/07/2024	Natural	**12**	<0.4	**15**	**17**	**12**	<0.1	**12**	**45**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP212	0-0.2	12/07/2024	Fill	**4**	<0.4	**5**	**7**	**7**	<0.1	**1**	**5**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP212	2-2.2	12/07/2024	Fill	**11**	<0.4	**28**	**11**	**13**	<0.1	**2**	**9**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP212	2.4-2.6	12/07/2024	Natural	**5**	<0.4	**14**	**13**	**15**	<0.1	**6**	**20**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP213	0-0.2	12/07/2024	Fill	**6**	<0.4	**8**	**17**	**11**	<0.1	**4**	**18**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP213	0.6-0.8	12/07/2024	Fill	**12**	<0.4	**5**	**10**	**14**	<0.1	**<1**	**4**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP214	0-0.2	12/07/2024	Fill	**5**	<0.4	**7**	**13**	**12**	<0.1	**1**	**8**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP214	0.9-1.1	12/07/2024	Fill	**11**	<0.4	**16**	**26**	**19**	<0.1	**39**	**110**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP216	0-0.2	11/07/2024	Fill	**7**	<0.4	**7**	**8**	**11**	<0.1	**2**	**10**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP216	0.5-0.7	11/07/2024	Fill	**7**	<0.4	**16**	**18**	**14**	<0.1	**11**	**31**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP216	1.3-1.5	11/07/2024	Fill	**9**	<0.4	**5**	**9**	**9**	<0.1	**1**	**4**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP216	2.4-2.6	11/07/2024	Fill	**6**	<0.4	**17**	**8**	**19**	<0.1	**4**	**8**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP216	2.8-3	11/07/2024	Natural	**<4**	<0.4	**9**	**10**	**8**	<0.1	**3**	**11**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP218	0-0.2	12/07/2024	Fill	**4**	<0.4	**8**	**8**	**8**	<0.1	**3**	**10**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP218	0.5-0.7	12/07/2024	Fill	**7**	<0.4	**11**	**11**	**10**	<0.1	**4**	**13**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP218	1.6-1.8	12/07/2024	Natural	**<4**	<0.4	**13**	**34**	**14**	<0.1	**15**	**58**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
BD6/20240712^	1.6-1.8	12/07/2024	Natural	**<4**	<0.4	**13**	**22**	**19**	<0.1	**11**	**45**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP220	0-0.2	11/07/2024	Fill	**6**	<0.4	**6**	**5**	**6**	<0.1	**<1**	**3**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP220	0.4-0.6	11/07/2024	Natural	**7**	<0.4	**12**	**16**	**14**	<0.1	**8**	**25**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP221	0-0.2	12/07/2024	Fill	**9**	<0.4	**16**	**13**	**14**	<0.1	**4**	**15**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP221	1.25-1.35	12/07/2024	Fill	**12**	<0.4	**26**	**10**	**23**	<0.1	**6**	**16**	<25	**29**	<50	<100	<100	<50	<50	**29**	<50	<100	<100	<50	-	-	-	-	-	-
TP222	0-0.2	16/07/2024	Fill	**21**	<0.4	**10**	**16**	**13**	<0.1	**4**	**19**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-

Table J1: Summary of Soil Chemical Laboratory Results

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	Metals								TRH												TPH					
				Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	TRH C6 - C9	TRH C6 - C10	TRH C10 - C14	TRH C15 - C28	TRH C29 - C36	Total +ve TRH (C10-C36)	TRH >C10-C16	F1 (vTRH C6 - C10 less BTEX)	F2 (TRH >C10-C16 less Naphthalene)	F3 (TRH >C16-C34)	F4 (TRH >C34-C40)	Total +ve TRH (>C10-C40)	TPH C10-C14	TPH C15-C28	TPH C29-C36	TPH>C10-C16	TPH>C16-C34	TPH>C34-C40
NEMP 2013 Commercial/Industrial - Soil HIL-D and Direct Contact				3000	900	3600	240000	1500	730	6000	400000								26000	20000	27000	38000					20000	27000	38000
NEPM 2013 Commercial/Industrial - Soil HSL-D																			310	NL							NL		
NEPM 2013 Commercial/Industrial - ML-D																			800	1000	5000	10000					1000	5000	10000
NEPM 2013 Commercial/Industrial - Soil EIL/ESL and HEPA 2020 EGV				160		680	300	1800		310	730								215	170	2500	6600					170	2500	6600
HEPA 2020, EGV (Indirect)																													
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL				4	0.4	1	1	1	0.1	1	1	25	25	50	100	100	50	50	25	50	100	100	50	50	100	100	50	100	100
TP222	1.8-1.9	16/07/2024	Fill	**<4**	<0.4	**3**	**4**	**7**	<0.1	**<1**	**4**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP222	2.3-2.5	16/07/2024	Natural	**5**	<0.4	**13**	**15**	**9**	<0.1	**7**	**16**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP223	0-0.2	11/07/2024	Fill	**8**	<0.4	**16**	**11**	**12**	<0.1	**3**	**12**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP223	0.8-1	11/07/2024	Fill	**11**	<0.5	**17**	**26**	**26**	<0.1	**20**	**54**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP223	3.1-3.3	11/07/2024	Natural	**7**	<0.4	**12**	**19**	**13**	<0.1	**12**	**40**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP223	3.4-3.6	11/07/2024	Natural	**5**	<0.4	**12**	**16**	**9**	<0.1	**4**	**18**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
BD1/20240711^	3.4-3.6	11/07/2024	Natural	**<4**	<0.4	**11**	**14**	**8**	<0.1	**4**	**15**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP226	0-0.2	16/07/2024	Fill	**6**	<0.4	**8**	**6**	**10**	<0.1	**2**	**7**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP226	0.5-0.7	16/07/2024	Fill	**9**	<0.4	**20**	**10**	**15**	<0.1	**8**	**23**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP227	0-0.2	11/07/2024	Fill	**8**	<0.4	**25**	**5**	**15**	<0.1	**4**	**11**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP227	1-1.2	11/07/2024	Fill	**7**	<0.4	**15**	**14**	**13**	<0.1	**5**	**17**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP227	2.4-2.6	11/07/2024	Natural	**6**	<0.4	**14**	**19**	**10**	<0.1	**8**	**20**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
BD4/20240711*	2.4-2.6	11/07/2024	Natural	**6**	<1	**17**	**17**	**8**	<0.1	**9**	**26**	<10	-	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-
TP228	0-0.2	11/07/2024	Fill	**6**	<0.4	**4**	**5**	**9**	<0.1	**<1**	**3**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP228	1-1.2	11/07/2024	Fill	**<4**	<0.4	**8**	**22**	**12**	<0.1	**9**	**31**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP229	0-0.2	16/07/2024	Fill	**6**	<0.4	**16**	**6**	**12**	<0.1	**4**	**10**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP229	1-1.2	16/07/2024	Fill	**10**	<0.4	**26**	**6**	**19**	<0.1	**4**	**12**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP231	0-0.2	16/07/2024	Fill	**7**	<0.4	**17**	**10**	**15**	<0.1	**7**	**20**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP231	0.8-1	16/07/2024	Fill	**10**	<0.4	**27**	**13**	**20**	<0.1	**7**	**22**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP231	3-3.2	16/07/2024	Natural	**6**	<0.4	**16**	**19**	**10**	<0.1	**10**	**19**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
BD4/20240716*	3-3.2	16/07/2024	Fill	**8**	<1	**23**	**24**	**12**	<0.1	**13**	**27**	<10	-	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-
TP232	0-0.2	16/07/2024	Fill	**9**	<0.4	**16**	**21**	**21**	<0.1	**8**	**47**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP232	1-1.2	16/07/2024	Fill	**5**	<0.4	**13**	**15**	**12**	<0.1	**8**	**16**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP232	1.6-1.8	16/07/2024	Natural	**5**	<0.4	**14**	**18**	**9**	<0.1	**6**	**20**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
BD3/20240716*	1.6-1.8	16/07/2024	Fill	**7**	<1	**22**	**26**	**12**	<0.1	**13**	**38**	<10	-	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50	-	-	-	-	-	-
TP233	0-0.2	16/07/2024	Fill	**7**	<0.4	**15**	**18**	**18**	<0.1	**10**	**36**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP233	1-1.2	16/07/2024	Fill	**6**	<0.4	**13**	**5**	**9**	<0.1	**1**	**5**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP235	0-0.2	15/07/2024	Fill	**10**	<0.4	**10**	**15**	**15**	<0.1	**6**	**20**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP235	2.2-2.4	15/07/2024	Natural	<4	<0.4	**10**	**14**	**8**	<0.1	**7**	**19**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP236	0-0.2	15/07/2024	Fill	**6**	<0.4	**12**	**21**	**14**	<0.1	**9**	**28**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP236	0.8-1	15/07/2024	Fill	**7**	<0.4	**9**	**10**	**13**	<0.1	**2**	**8**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP237	0-0.2	16/07/2024	Fill	**6**	<0.4	**13**	**19**	**13**	<0.1	**8**	**24**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP237	0.8-1	16/07/2024	Fill	**7**	<0.4	**14**	**16**	**16**	<0.1	**5**	**20**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP237	3-3.2	16/07/2024	Natural	**9**	<0.4	**16**	**22**	**19**	<0.1	**11**	**32**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
BD1/20240716^	3-3.2	16/07/2024	Fill	**5**	<0.4	**11**	**17**	**9**	<0.1	**8**	**23**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP238	0-0.2	15/07/2024	Fill	**6**	<0.4	**15**	**7**	**12**	<0.1	**2**	**7**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP238	0.8-1	15/07/2024	Fill	**7**	<0.4	**19**	**13**	**15**	<0.1	**4**	**12**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP238	2-2.2	15/07/2024	Natural	**5**	<0.4	**15**	**16**	**10**	<0.1	**7**	**17**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP240	0-0.2	15/07/2024	Fill	**9**	<0.4	**10**	**13**	**14**	<0.1	**6**	**20**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP240	0.8-1	15/07/2024	Fill	**8**	<0.4	**15**	**24**	**14**	<0.1	**13**	**33**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP240	2-2.2	15/07/2024	Fill	**10**	<0.4	**23**	**12**	**30**	<0.1	**12**	**32**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP240	2.7-2.9	15/07/2024	Natural	**5**	<0.4	**12**	**19**	**11**	<0.1	**8**	**26**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP241	0-0.2	11/07/2024	Fill	**10**	<0.4	**9**	**14**	**16**	<0.1	**4**	**16**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP241	0.5-0.7	11/07/2024	Fill	**8**	<0.4	**14**	**13**	**11**	<0.1	**2**	**7**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP242	0-0.2	15/07/2024	Fill	**9**	<0.4	**7**	**10**	**13**	<0.1	**3**	**12**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-

Table J1: Summary of Soil Chemical Laboratory Results

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	Metals								TRH												TPH					
				Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	TRH C6 - C9	TRH C6 - C10	TRH C10 - C14	TRH C15 - C28	TRH C29 - C36	Total +ve TRH (C10-C36)	TRH >C10-C16	F1 (vTRH C6 - C10 less BTEX)	F2 (TRH >C10-C16 less Naphthalene)	F3 (TRH >C16-C34)	F4 (TRH >C34-C40)	Total +ve TRH (>C10-C40)	TPH C10-C14	TPH C15-C28	TPH C29-C36	TPH>C10-C16	TPH>C16-C34	TPH>C34-C40
NEMP 2013 Commercial/Industrial - Soil HIL-D and Direct Contact				3000	900	3600	240000	1500	730	6000	400000								26000	20000	27000	38000					20000	27000	38000
NEPM 2013 Commercial/Industrial - Soil HSL-D																			310	NL							NL		
NEPM 2013 Commercial/Industrial - ML-D																			800	1000	5000	10000					1000	5000	10000
NEPM 2013 Commercial/Industrial - Soil EIL/ESL and HEPA 2020 EGV				160		680	300	1800		310	730								215	170	2500	6600					170	2500	6600
HEPA 2020, EGV (Indirect)																													
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL				4	0.4	1	1	1	0.1	1	1	25	25	50	100	100	50	50	25	50	100	100	50	50	100	100	50	100	100
TP242	0.8-1	15/07/2024	Fill	**11**	<0.4	**10**	**11**	**12**	<0.1	**1**	**5**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP243	0-0.2	15/07/2024	Fill	**9**	<0.4	**8**	**10**	**11**	<0.1	**3**	**12**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP243	2.2-2.4	15/07/2024	Natural	**6**	<0.4	**18**	**20**	**16**	<0.1	**8**	**24**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
BD3/20240715^	2.2-2.4	15/07/2024	Fill	**6**	<0.4	**16**	**17**	**15**	<0.1	**8**	**24**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP245	0-0.2	15/07/2024	Fill	**5**	<0.4	**6**	**8**	**9**	<0.1	**2**	**8**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP245	1.8-2	15/07/2024	Fill	**4**	<0.4	**9**	**8**	**11**	<0.1	**5**	**16**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP245	2.4-2.6	15/07/2024	Natural	**5**	<0.4	**13**	**20**	**12**	<0.1	**13**	**25**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
BD1/20240715^	2.4-2.6	15/07/2024	Fill	**6**	<0.4	**14**	**23**	**23**	<0.1	**17**	**31**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP246	0-0.2	10/07/2024	Fill	<4	<0.4	**6**	**9**	**7**	<0.1	**1**	**7**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP246	2.1-2.3	10/07/2024	Natural	**5**	<0.4	**12**	**18**	**20**	<0.1	**10**	**24**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP247	0-0.2	10/07/2024	Fill	**7**	<0.4	**10**	**7**	**12**	<0.1	**2**	**6**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP247	0.9-1.1	10/07/2024	Fill	<4	<0.4	**5**	**11**	**8**	<0.1	<1	**5**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP247	2.6-2.8	10/07/2024	Natural	**5**	<0.4	**15**	**17**	**10**	<0.1	**6**	**17**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP249	0-0.2	10/07/2024	Fill	**5**	<0.4	**7**	**11**	**10**	<0.1	**4**	**16**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP249	0.5-0.7	10/07/2024	Fill	<4	<0.4	**5**	**7**	**9**	<0.1	**1**	**6**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP249	1.4-1.6	10/07/2024	Fill	**7**	<0.4	**16**	**3**	**9**	<0.1	**1**	**4**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP251	0-0.2	10/07/2024	Fill	<4	<0.4	**5**	**8**	**7**	<0.1	**1**	**7**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP253	0-0.2	10/07/2024	Fill	**7**	<0.4	**12**	**9**	**12**	<0.1	**3**	**7**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
TP253	2-2.2	10/07/2024	Natural	**7**	<0.4	**20**	**18**	**29**	<0.1	**13**	**22**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
SS1	0-0.2	16/07/2024	Fill	**9**	<0.4	**22**	**7**	**17**	<0.1	**6**	**23**	<25	<25	<50	<100	**100**	**100**	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
SS4	0-0.2	16/07/2024	Fill	**9**	<0.4	**25**	**6**	**15**	<0.1	**3**	**11**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-
SS5	0-0.2	16/07/2024	Fill	**9**	<0.4	**21**	**8**	**19**	<0.1	**4**	**18**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50	-	-	-	-	-	-

Notes:

^	Intra-laboratory replicate listed directly below the primary.
*	Inter-laboratory replicate listed directly below the primary.
#	ESL based on CRC CARE (2017)
~	EIL criteria applies to DDT only
LRL	Laboratory reporting limit
SAC	Refer to Appendix H for additional SAC information.
bgl	Below ground level (relative to current site levels)

Table J1: Summary of Soil Chemical Laboratory Results

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	BTEX						PAH																
				Benzene	Toluene	Ethylbenzene	m+p-xylene	o-Xylene	Total +ve Xylenes	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,j+k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-c,d)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	Benzo(a)pyrene TEQ	Total +ve PAH's
NEMP 2013 Commercial/Industrial - Soil HIL-D and Direct Contact				430	99000	27000			81000	11000														40	4000
NEPM 2013 Commercial/Industrial - Soil HSL-D				4	NL	NL			NL	NL															
NEPM 2013 Commercial/Industrial - ML-D																									
NEPM 2013 Commercial/Industrial - Soil EIL/ESL and HEPA 2020 EGV				95	135	185			95	370											172#				
HEPA 2020, EGV (Indirect)																									
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL				0.2	0.5	1	2	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.1	0.1	0.1	0.5	0.05
TP201	0-0.2	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP201	0.8-1	12/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP202	0-0.2	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP203	0-0.2	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP203	0.9-1.1	12/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD5/20240712^	0.9-1.1	12/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP205	0-0.2	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP205	0.8-1	12/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD4/20240712*	0.8-1	12/07/2024	Natural	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP206	1.2-1.4	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20240712*	1.2-1.4	12/07/2024	Natural	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP207	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP207	1-1.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP207	2-2.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP208	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP208	2.8-3	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP209	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP209	1.5-1.7	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP209	2.5-2.7	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP210	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP210	1-1.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP210	2.7-2.9	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP211	0-0.2	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP211	1.8-2	12/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP212	0-0.2	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP212	2-2.2	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP212	2.4-2.6	12/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP213	0-0.2	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP213	0.6-0.8	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP214	0-0.2	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP214	0.9-1.1	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP216	0-0.2	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP216	0.5-0.7	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP216	1.3-1.5	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP216	2.4-2.6	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP216	2.8-3	11/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP218	0-0.2	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP218	0.5-0.7	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP218	1.6-1.8	12/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD6/20240712^	1.6-1.8	12/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP220	0-0.2	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP220	0.4-0.6	11/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP221	0-0.2	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP221	1.25-1.35	12/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP222	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05

Table J1: Summary of Soil Chemical Laboratory Results

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	BTEX						PAH																
				Benzene	Toluene	Ethylbenzene	m+p-xylene	o-Xylene	Total +ve Xylenes	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,j+k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-c,d)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	Benzo(a)pyrene TEQ	Total +ve PAH's
NEMP 2013 Commercial/Industrial - Soil HIL-D and Direct Contact				430	99000	27000			81000	11000														40	4000
NEPM 2013 Commercial/Industrial - Soil HSL-D				4	NL	NL			NL	NL															
NEPM 2013 Commercial/Industrial - ML-D																									
NEPM 2013 Commercial/Industrial - Soil EIL/ESL and HEPA 2020 EGV				95	135	185			95	370										172#					
HEPA 2020, EGV (Indirect)																									
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL				0.2	0.5	1	2	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.1	0.1	0.1	0.5	0.05
TP222	1.8-1.9	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP222	2.3-2.5	16/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP223	0-0.2	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP223	0.8-1	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP223	3.1-3.3	11/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP223	3.4-3.6	11/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD1/20240711^	3.4-3.6	11/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP226	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP226	0.5-0.7	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP227	0-0.2	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP227	1-1.2	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP227	2.4-2.6	11/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD4/20240711*	2.4-2.6	11/07/2024	Natural	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP228	0-0.2	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP228	1-1.2	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP229	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP229	1-1.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP231	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP231	0.8-1	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP231	3-3.2	16/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD4/20240716*	3-3.2	16/07/2024	Fill	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP232	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP232	1-1.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP232	1.6-1.8	16/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD3/20240716*	1.6-1.8	16/07/2024	Fill	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP233	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP233	1-1.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP235	0-0.2	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP235	2.2-2.4	15/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP236	0-0.2	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP236	0.8-1	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP237	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP237	0.8-1	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP237	3-3.2	16/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD1/20240716^	3-3.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP238	0-0.2	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP238	0.8-1	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP238	2-2.2	15/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP240	0-0.2	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP240	0.8-1	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP240	2-2.2	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP240	2.7-2.9	15/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP241	0-0.2	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP241	0.5-0.7	11/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP242	0-0.2	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05

Table J1: Summary of Soil Chemical Laboratory Results

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	BTEX						PAH																
				Benzene	Toluene	Ethylbenzene	m+p-xylene	o-Xylene	Total +ve Xylenes	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,j+k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-c,d)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	Benzo(a)pyrene TEQ	Total +ve PAH's
NEMP 2013 Commercial/Industrial - Soil HIL-D and Direct Contact				430	99000	27000			81000	11000														40	4000
NEPM 2013 Commercial/Industrial - Soil HSL-D				4	NL	NL			NL	NL															
NEPM 2013 Commercial/Industrial - ML-D																									
NEPM 2013 Commercial/Industrial - Soil EIL/ESL and HEPA 2020 EGV				95	135	185			95	370										172#					
HEPA 2020, EGV (Indirect)																									
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL				0.2	0.5	1	2	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.1	0.1	0.1	0.5	0.05
TP242	0.8-1	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP243	0-0.2	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP243	2.2-2.4	15/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD3/20240715^	2.2-2.4	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP245	0-0.2	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP245	1.8-2	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP245	2.4-2.6	15/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD1/20240715^	2.4-2.6	15/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP246	0-0.2	10/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP246	2.1-2.3	10/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP247	0-0.2	10/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP247	0.9-1.1	10/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP247	2.6-2.8	10/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP249	0-0.2	10/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP249	0.5-0.7	10/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP249	1.4-1.6	10/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP251	0-0.2	10/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP253	0-0.2	10/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
TP253	2-2.2	10/07/2024	Natural	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
SS1	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
SS4	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
SS5	0-0.2	16/07/2024	Fill	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05

Notes:

^	Intra-laboratory replicate listed directly below the primary.
*	Inter-laboratory replicate listed directly below the primary.
#	ESL based on CRC CARE (2017)
~	EIL criteria applies to DDT only
LRL	Laboratory reporting limit
SAC	Refer to Appendix H for additional SAC information.
bgl	Below ground level (relative to current site levels)

Table J1: Summary of Soil Chemical Laboratory Results

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	Total Phenolics	OCP		OPP		Total +ve PCBs (1016-1260)	PFAS						Physical Parameters		
					Total +ve DDT+DDD+DDE	Total OCP	Chlorpyriphos	Total OPP		PFHxS	PFOS	PFOA	Total Positive PFHxS & PFOS	Total Positive PFOS & PFOA	Total Positive PFAS	pH	Electrical Conductivity	Cation Exchange Capacity
NEMP 2013 Commercial/Industrial - Soil HIL-D and Direct Contact				240000	3600		2000		7	20000	20000	50000	20000					
NEPM 2013 Commercial/Industrial - Soil HSL-D																		
NEPM 2013 Commercial/Industrial - ML-D																		
NEPM 2013 Commercial/Industrial - Soil EIL/ESL and HEPA 2020 EGV					640~						1000	10000						
HEPA 2020, EGV (Indirect)											10							
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	pH Units	µS/cm	meq/100g
PQL				5	0.1	LRL	0.1	LRL	0.1	5	5	5	5	5	5	-	1	1
TP201	0-0.2	12/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**6.1**	**61**	-
TP201	0.8-1	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**5.1**	**370**	-
TP202	0-0.2	12/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**5.5**	**310**	-
TP203	0-0.2	12/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	<5	<5	<5	<5	<5	<5	**5.7**	**420**	-
TP203	0.9-1.1	12/07/2024	Natural	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	**4.7**	**1300**	-
BD5/20240712^	0.9-1.1	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP205	0-0.2	12/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**6.9**	**450**	-
TP205	0.8-1	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**5.6**	**530**	**7.2**
BD4/20240712*	0.8-1	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP206	1.2-1.4	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BD3/20240712*	1.2-1.4	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP207	0-0.2	16/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	<5	<5	<5	<5	<5	<5	**6.1**	**95**	-
TP207	1-1.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**6.8**	**230**	-
TP207	2-2.2	16/07/2024	Fill	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	**6.5**	**86**	-
TP208	0-0.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**6.3**	**91**	-
TP208	2.8-3	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**6.5**	**80**	-
TP209	0-0.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**6.2**	**130**	-
TP209	1.5-1.7	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**6.4**	**100**	**7.3**
TP209	2.5-2.7	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**6.6**	**580**	-
TP210	0-0.2	16/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**6.1**	**120**	-
TP210	1-1.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**6.2**	**120**	-
TP210	2.7-2.9	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**5.8**	**160**	-
TP211	0-0.2	12/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	<5	<5	<5	<5	<5	<5	**7.1**	**190**	-
TP211	1.8-2	12/07/2024	Natural	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	**5.6**	**84**	-
TP212	0-0.2	12/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**7.4**	**390**	-
TP212	2-2.2	12/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**5.6**	**460**	-
TP212	2.4-2.6	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**6.1**	**150**	-
TP213	0-0.2	12/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**6.3**	**600**	-
TP213	0.6-0.8	12/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**5.5**	**410**	-
TP214	0-0.2	12/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**5.9**	**160**	**13**
TP214	0.9-1.1	12/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP216	0-0.2	11/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**7.2**	**390**	-
TP216	0.5-0.7	11/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**8.4**	**460**	-
TP216	1.3-1.5	11/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**6.2**	**380**	-
TP216	2.4-2.6	11/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**6.2**	**75**	-
TP216	2.8-3	11/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**5.1**	**200**	-
TP218	0-0.2	12/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	<5	<5	<5	<5	<5	<5	**6.1**	**470**	-
TP218	0.5-0.7	12/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP218	1.6-1.8	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**5.2**	**730**	-
BD6/20240712^	1.6-1.8	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP220	0-0.2	11/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	<5	<5	<5	<5	<5	<5	**6.1**	**650**	-
TP220	0.4-0.6	11/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**6.7**	**480**	-
TP221	0-0.2	12/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**5.6**	**290**	**11**
TP221	1.25-1.35	12/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP222	0-0.2	16/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**5.8**	**180**	-

Table J1: Summary of Soil Chemical Laboratory Results

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	Total Phenolics	OCP		OPP		Total +ve PCBs (1016-1260)	PFAS						Physical Parameters		
					Total +ve DDT+DDD+DDE	Total OCP	Chlorpyriphos	Total OPP		PFHxS	PFOS	PFOA	Total Positive PFHxS & PFOS	Total Positive PFOS & PFOA	Total Positive PFAS	pH	Electrical Conductivity	Cation Exchange Capacity
NEMP 2013 Commercial/Industrial - Soil HIL-D and Direct Contact				240000	3600		2000		7	20000	20000	50000	20000					
NEPM 2013 Commercial/Industrial - Soil HSL-D																		
NEPM 2013 Commercial/Industrial - ML-D																		
NEPM 2013 Commercial/Industrial - Soil EIL/ESL and HEPA 2020 EGV					640~						1000	10000						
HEPA 2020, EGV (Indirect)											10							
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	pH Units	µS/cm	meq/100g
PQL				5	0.1	LRL	0.1	LRL	0.1	5	5	5	5	5	5	-	1	1
TP222	1.8-1.9	16/07/2024	Fill	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	**5.0**	**470**	-
TP222	2.3-2.5	16/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**6.1**	**130**	-
TP223	0-0.2	11/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**7.1**	**660**	-
TP223	0.8-1	11/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**4.8**	**500**	-
TP223	3.1-3.3	11/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**5.2**	**310**	-
TP223	3.4-3.6	11/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**4.7**	**190**	-
BD1/20240711^	3.4-3.6	11/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP226	0-0.2	16/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**8.0**	**750**	**23**
TP226	0.5-0.7	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP227	0-0.2	11/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	<5	<5	<5	<5	<5	<5	**5.6**	**360**	-
TP227	1-1.2	11/07/2024	Fill	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	**7.3**	**630**	-
TP227	2.4-2.6	11/07/2024	Natural	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	**6.4**	**160**	-
BD4/20240711*	2.4-2.6	11/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP228	0-0.2	11/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP228	1-1.2	11/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP229	0-0.2	16/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**6.1**	**63**	**4.7**
TP229	1-1.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**5.8**	**120**	-
TP231	0-0.2	16/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**6.3**	**290**	-
TP231	0.8-1	16/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**6.7**	**290**	-
TP231	3-3.2	16/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**4.9**	**320**	-
BD4/20240716*	3-3.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP232	0-0.2	16/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**6.4**	**190**	-
TP232	1-1.2	16/07/2024	Fill	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	**6.8**	**410**	**12**
TP232	1.6-1.8	16/07/2024	Natural	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	**5.5**	**660**	-
BD3/20240716*	1.6-1.8	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP233	0-0.2	16/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**7.8**	**400**	-
TP233	1-1.2	16/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**5.5**	**210**	-
TP235	0-0.2	15/07/2024	Fill	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	-	-	-
TP235	2.2-2.4	15/07/2024	Natural	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	**7.2**	**330**	-
TP236	0-0.2	15/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**7.5**	**200**	-
TP236	0.8-1	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**5.3**	**290**	-
TP237	0-0.2	16/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**6.1**	**760**	-
TP237	0.8-1	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**6.4**	**620**	-
TP237	3-3.2	16/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**5.3**	**260**	-
BD1/20240716^	3-3.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP238	0-0.2	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**4.9**	**340**	-
TP238	0.8-1	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**5**	**350**	-
TP238	2-2.2	15/07/2024	Natural	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**6.4**	**280**	-
TP240	0-0.2	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**5.8**	**160**	-
TP240	0.8-1	15/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**5.7**	**270**	-
TP240	2-2.2	15/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-
TP240	2.7-2.9	15/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**6.4**	**90**	-
TP241	0-0.2	11/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**5.9**	**210**	-
TP241	0.5-0.7	11/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**4.8**	**440**	**11**
TP242	0-0.2	15/07/2024	Fill	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	**5.3**	**180**	-

Table J1: Summary of Soil Chemical Laboratory Results

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	Total Phenolics	OCP		OPP		Total +ve PCBs (1016-1260)	PFAS						Physical Parameters		
					Total +ve DDT+DDD+DDE	Total OCP	Chlorpyriphos	Total OPP		PFHxS	PFOS	PFOA	Total Positive PFHxS & PFOS	Total Positive PFOS & PFOA	Total Positive PFAS	pH	Electrical Conductivity	Cation Exchange Capacity
NEMP 2013 Commercial/Industrial - Soil HIL-D and Direct Contact				240000	3600		2000		7	20000	20000	50000	20000					
NEPM 2013 Commercial/Industrial - Soil HSL-D																		
NEPM 2013 Commercial/Industrial - ML-D																		
NEPM 2013 Commercial/Industrial - Soil EIL/ESL and HEPA 2020 EGV					640~						1000	10000						
HEPA 2020, EGV (Indirect)											10							
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	pH Units	µS/cm	meq/100g
PQL				5	0.1	LRL	0.1	LRL	0.1	5	5	5	5	5	5	-	1	1
TP242	0.8-1	15/07/2024	Fill	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	**5.5**	**350**	-
TP243	0-0.2	15/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	<5	<5	<5	<5	<5	<5	**5.5**	**260**	-
TP243	2.2-2.4	15/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**7.3**	**670**	-
BD3/20240715^	2.2-2.4	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP245	0-0.2	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**5**	**560**	-
TP245	1.8-2	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**5.9**	**330**	-
TP245	2.4-2.6	15/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	**5.4**	**310**	-
BD1/20240715^	2.4-2.6	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP246	0-0.2	10/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**5.8**	**540**	**14**
TP246	2.1-2.3	10/07/2024	Natural	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**6.9**	**220**	-
TP247	0-0.2	10/07/2024	Fill	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	**5.7**	**350**	-
TP247	0.9-1.1	10/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	<5	<5	<5	<5	<5	<5	**4.7**	**560**	-
TP247	2.6-2.8	10/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP249	0-0.2	10/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**7.7**	**710**	-
TP249	0.5-0.7	10/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	<5	<5	<5	<5	<5	<5	**4.9**	**220**	-
TP249	1.4-1.6	10/07/2024	Fill	-	-	-	-	-	-	<5	<5	<5	<5	<5	<5	-	-	-
TP251	0-0.2	10/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-
TP253	0-0.2	10/07/2024	Fill	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**7.2**	**250**	**16**
TP253	2-2.2	10/07/2024	Natural	<5	<0.1	<LRL	<0.1	<LRL	<0.1	-	-	-	-	-	-	**5.8**	**500**	-
SS1	0-0.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS4	0-0.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**5.2**	**110**	-
SS5	0-0.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	**5.3**	**140**	-

Notes:

^	Intra-laboratory replicate listed directly below the primary.
*	Inter-laboratory replicate listed directly below the primary.
#	ESL based on CRC CARE (2017)
~	EIL criteria applies to DDT only
LRL	Laboratory reporting limit
SAC	Refer to Appendix H for additional SAC information.
bgl	Below ground level (relative to current site levels)

Table J2: Summary of Soil Chemical Laboratory Results - Waste Classification

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	Metals								TRH											BTEX					
				Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	TRH C6 - C9	TRH C6 - C10	TRH C15 - C28	TRH C29 - C36	Total +ve TRH (C10-C36)	TRH >C10-C16	F1 (vTRH C6 - C10 less BTEX)	F2 (TRH >C10-C16 less Naphthalene)	F3 (TRH >C16-C34)	F4 (TRH >C34-C40)	Total +ve TRH (>C10-C40)	Benzene	Toluene	Ethylbenzene	m+p-xylene	o-Xylene	Total +ve Xylenes
NSW EPA Waste Classification (2014) - CT1				100	20	100		100	4	40		650	650			10,000							10	288	600			1000
NSW EPA Waste Classification (2014) - SCC1 and TCLP1				500	100	1900		1500	50	1050		650	650			10,000							18	518	1080			1800
ANZECC (1992) - For Natural Materials				0.2-30	0.04-2	0.5-110	1-190	<2-200	0.001-0.1	2-400	2-180	LRL	LRL	LRL	LRL	LRL	LRL	LRL	LRL	LRL	LRL	LRL	0.05-1	0.1-1				
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL				4	0.4	1	1	1	0.1	1	1	25	25	100	100	50	50	25	50	100	100	50	0.2	0.5	1	2	1	1
TP201	0-0.2	12/07/2024	Fill	**6**	<0.4	**18**	**8**	**15**	<0.1	**5**	**8**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP201	0.8-1	12/07/2024	Natural	**8**	<0.4	**10**	**15**	**12**	<0.1	**<1**	**7**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP202	0-0.2	12/07/2024	Fill	**8**	<0.4	**17**	**8**	**16**	<0.1	**6**	**14**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP203	0-0.2	12/07/2024	Fill	**6**	<0.4	**15**	**15**	**12**	<0.1	**6**	**19**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP203	0.9-1.1	12/07/2024	Natural	**<4**	<0.4	**3**	**9**	**7**	<0.1	**<1**	**6**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
BD5/20240712^	0.9-1.1	12/07/2024	Natural	**8**	<0.4	**10**	**15**	**15**	<0.1	**2**	**9**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP205	0-0.2	12/07/2024	Fill	**4**	<0.4	**13**	**38**	**18**	<0.1	**12**	**59**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP205	0.8-1	12/07/2024	Natural	**<4**	<0.4	**3**	**21**	**10**	<0.1	**3**	**26**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
BD4/20240712*	0.8-1	12/07/2024	Natural	**<5**	<1	**4**	**14**	**9**	<0.1	**3**	**28**	<10	-	<100	<100	<50	<50	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5
TP206	1.2-1.4	12/07/2024	Natural	<4	<0.4	**14**	**57**	**23**	<0.1	**53**	**170**	-	-	-	-	-		-	-	-		-	-	-		-	-	-
BD3/20240712*	1.2-1.4	12/07/2024	Natural	<5	<1	**13**	**31**	**28**	<0.1	**8**	**49**	<10	-	<100	<100	<50	<50	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5
TP207	0-0.2	16/07/2024	Fill	**11**	<0.4	**22**	**10**	**18**	<0.1	**9**	**25**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP207	1-1.2	16/07/2024	Fill	**6**	<0.4	**17**	**13**	**21**	<0.1	**6**	**30**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP207	2-2.2	16/07/2024	Fill	**<4**	<0.4	**10**	**5**	**13**	<0.1	**3**	**9**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP208	0-0.2	16/07/2024	Fill	**7**	<0.4	**16**	**9**	**15**	<0.1	**6**	**26**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP208	2.8-3	16/07/2024	Fill	**7**	<0.4	**18**	**5**	**21**	<0.1	**3**	**10**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP209	0-0.2	16/07/2024	Fill	**10**	<0.4	**20**	**12**	**19**	<0.1	**8**	**23**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP209	1.5-1.7	16/07/2024	Fill	**8**	<0.4	**20**	**9**	**18**	<0.1	**8**	**22**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP209	2.5-2.7	16/07/2024	Fill	**12**	<0.4	**17**	**17**	**16**	<0.1	**7**	**39**	<25	<25	**240**	**360**	**600**	**66**	**<25**	**66**	**480**	**260**	**810**	<0.2	<0.5	<1	<2	<1	<1
TP210	0-0.2	16/07/2024	Fill	**7**	<0.4	**18**	**9**	**19**	<0.1	**4**	**21**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP210	1-1.2	16/07/2024	Fill	**6**	<0.4	**15**	**7**	**17**	<0.1	**5**	**16**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP210	2.7-2.9	16/07/2024	Fill	**11**	<0.4	**27**	**6**	**17**	<0.1	**6**	**15**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP211	0-0.2	12/07/2024	Fill	**9**	<0.4	**9**	**10**	**13**	<0.1	**2**	**9**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP211	1.8-2	12/07/2024	Natural	**12**	<0.4	**15**	**17**	**12**	<0.1	**12**	**45**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP212	0-0.2	12/07/2024	Fill	**4**	<0.4	**5**	**7**	**7**	<0.1	**1**	**5**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP212	2-2.2	12/07/2024	Fill	**11**	<0.4	**28**	**11**	**13**	<0.1	**2**	**9**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP212	2.4-2.6	12/07/2024	Natural	**5**	<0.4	**14**	**13**	**15**	<0.1	**6**	**20**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP213	0-0.2	12/07/2024	Fill	**6**	<0.4	**8**	**17**	**11**	<0.1	**4**	**18**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP213	0.6-0.8	12/07/2024	Fill	**12**	<0.4	**5**	**10**	**14**	<0.1	**<1**	**4**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP214	0-0.2	12/07/2024	Fill	**5**	<0.4	**7**	**13**	**12**	<0.1	**1**	**8**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP214	0.9-1.1	12/07/2024	Fill	**11**	<0.4	**16**	**26**	**19**	<0.1	**39**	**110**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP216	0-0.2	11/07/2024	Fill	**7**	<0.4	**7**	**8**	**11**	<0.1	**2**	**10**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP216	0.5-0.7	11/07/2024	Fill	**7**	<0.4	**16**	**18**	**14**	<0.1	**11**	**31**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP216	1.3-1.5	11/07/2024	Fill	**9**	<0.4	**5**	**9**	**9**	<0.1	**1**	**4**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP216	2.4-2.6	11/07/2024	Fill	**6**	<0.4	**17**	**8**	**19**	<0.1	**4**	**8**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP216	2.8-3	11/07/2024	Natural	**<4**	<0.4	**9**	**10**	**8**	<0.1	**3**	**11**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP218	0-0.2	12/07/2024	Fill	**4**	<0.4	**8**	**8**	**8**	<0.1	**3**	**10**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP218	0.5-0.7	12/07/2024	Fill	**7**	<0.4	**11**	**11**	**10**	<0.1	**4**	**13**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP218	1.6-1.8	12/07/2024	Natural	**<4**	<0.4	**13**	**34**	**14**	<0.1	**15**	**58**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
BD6/20240712^	1.6-1.8	12/07/2024	Natural	**<4**	<0.4	**13**	**22**	**19**	<0.1	**11**	**45**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP220	0-0.2	11/07/2024	Fill	**6**	<0.4	**6**	**5**	**6**	<0.1	**<1**	**3**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP220	0.4-0.6	11/07/2024	Natural	**7**	<0.4	**12**	**16**	**14**	<0.1	**8**	**25**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP221	0-0.2	12/07/2024	Fill	**9**	<0.4	**16**	**13**	**14**	<0.1	**4**	**15**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP221	1.25-1.35	12/07/2024	Fill	**12**	<0.4	**26**	**10**	**23**	<0.1	**6**	**16**	<25	**29**	<100	<100	<50	<50	**29**	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP222	0-0.2	16/07/2024	Fill	**21**	<0.4	**10**	**16**	**13**	<0.1	**4**	**19**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP222	1.8-1.9	16/07/2024	Fill	**<4**	<0.4	**3**	**4**	**7**	<0.1	**<1**	**4**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP222	2.3-2.5	16/07/2024	Natural	**5**	<0.4	**13**	**15**	**9**	<0.1	**7**	**16**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1

Table J2: Summary of Soil Chemical Laboratory Results - Waste Classification

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	Metals								TRH											BTEX					
				Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	TRH C6 - C9	TRH C6 - C10	TRH C15 - C28	TRH C29 - C36	Total +ve TRH (C10-C36)	TRH >C10-C16	F1 (vTRH C6 - C10 less BTEX)	F2 (TRH >C10-C16 less Naphthalene)	F3 (TRH >C16-C34)	F4 (TRH >C34-C40)	Total +ve TRH (>C10-C40)	Benzene	Toluene	Ethylbenzene	m+p-xylene	o-Xylene	Total +ve Xylenes
NSW EPA Waste Classification (2014) - CT1				100	20	100		100	4	40		650	650			10,000							10	288	600			1000
NSW EPA Waste Classification (2014) - SCC1 and TCLP1				500	100	1900		1500	50	1050		650	650			10,000							18	518	1080			1800
ANZECC (1992) - For Natural Materials				0.2-30	0.04-2	0.5-110	1-190	<2-200	0.001-0.1	2-400	2-180	LRL	LRL	LRL	LRL	LRL	LRL	LRL	LRL	LRL	LRL	LRL	0.05-1	0.1-1				
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL				4	0.4	1	1	1	0.1	1	1	25	25	100	100	50	50	25	50	100	100	50	0.2	0.5	1	2	1	1
TP223	0-0.2	11/07/2024	Fill	**8**	<0.4	**16**	**11**	**12**	<0.1	**3**	**12**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP223	0.8-1	11/07/2024	Fill	**11**	<0.5	**17**	**26**	**26**	<0.1	**20**	**54**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP223	3.1-3.3	11/07/2024	Natural	**7**	<0.4	**12**	**19**	**13**	<0.1	**12**	**40**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP223	3.4-3.6	11/07/2024	Natural	**5**	<0.4	**12**	**16**	**9**	<0.1	**4**	**18**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
BD1/20240711^	3.4-3.6	11/07/2024	Natural	**<4**	<0.4	**11**	**14**	**8**	<0.1	**4**	**15**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP226	0-0.2	16/07/2024	Fill	**6**	<0.4	**8**	**6**	**10**	<0.1	**2**	**7**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP226	0.5-0.7	16/07/2024	Fill	**9**	<0.4	**20**	**10**	**15**	<0.1	**8**	**23**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP227	0-0.2	11/07/2024	Fill	**8**	<0.4	**25**	**5**	**15**	<0.1	**4**	**11**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP227	1-1.2	11/07/2024	Fill	**7**	<0.4	**15**	**14**	**13**	<0.1	**5**	**17**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP227	2.4-2.6	11/07/2024	Natural	**6**	<0.4	**14**	**19**	**10**	<0.1	**8**	**20**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
BD4/20240711*	2.4-2.6	11/07/2024	Natural	**6**	<1	**17**	**17**	**8**	<0.1	**9**	**26**	<10	-	<100	<100	<50	<50	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5
TP228	0-0.2	11/07/2024	Fill	**6**	<0.4	**4**	**5**	**9**	<0.1	**<1**	**3**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP228	1-1.2	11/07/2024	Fill	**<4**	<0.4	**8**	**22**	**12**	<0.1	**9**	**31**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP229	0-0.2	16/07/2024	Fill	**6**	<0.4	**16**	**6**	**12**	<0.1	**4**	**10**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP229	1-1.2	16/07/2024	Fill	**10**	<0.4	**26**	**6**	**19**	<0.1	**4**	**12**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP231	0-0.2	16/07/2024	Fill	**7**	<0.4	**17**	**10**	**15**	<0.1	**7**	**20**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP231	0.8-1	16/07/2024	Fill	**10**	<0.4	**27**	**13**	**20**	<0.1	**7**	**22**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP231	3-3.2	16/07/2024	Natural	**6**	<0.4	**16**	**19**	**10**	<0.1	**10**	**19**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
BD4/20240716*	3-3.2	16/07/2024	Fill	**8**	<1	**23**	**24**	**12**	<0.1	**13**	**27**	<10	-	<100	<100	<50	<50	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5
TP232	0-0.2	16/07/2024	Fill	**9**	<0.4	**16**	**21**	**21**	<0.1	**8**	**47**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP232	1-1.2	16/07/2024	Fill	**5**	<0.4	**13**	**15**	**12**	<0.1	**8**	**16**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP232	1.6-1.8	16/07/2024	Natural	**5**	<0.4	**14**	**18**	**9**	<0.1	**6**	**20**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
BD3/20240716*	1.6-1.8	16/07/2024	Fill	**7**	<1	**22**	**26**	**12**	<0.1	**13**	**38**	<10	-	<100	<100	<50	<50	<10	<50	<100	<100	<50	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5
TP233	0-0.2	16/07/2024	Fill	**7**	<0.4	**15**	**18**	**18**	<0.1	**10**	**36**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP233	1-1.2	16/07/2024	Fill	**6**	<0.4	**13**	**5**	**9**	<0.1	**1**	**5**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP235	0-0.2	15/07/2024	Fill	**10**	<0.4	**10**	**15**	**15**	<0.1	**6**	**20**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP235	2.2-2.4	15/07/2024	Natural	<4	<0.4	**10**	**14**	**8**	<0.1	**7**	**19**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP236	0-0.2	15/07/2024	Fill	**6**	<0.4	**12**	**21**	**14**	<0.1	**9**	**28**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP236	0.8-1	15/07/2024	Fill	**7**	<0.4	**9**	**10**	**13**	<0.1	**2**	**8**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP237	0-0.2	16/07/2024	Fill	**6**	<0.4	**13**	**19**	**13**	<0.1	**8**	**24**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP237	0.8-1	16/07/2024	Fill	**7**	<0.4	**14**	**16**	**16**	<0.1	**5**	**20**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP237	3-3.2	16/07/2024	Natural	**9**	<0.4	**16**	**22**	**19**	<0.1	**11**	**32**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
BD1/20240716^	3-3.2	16/07/2024	Fill	**5**	<0.4	**11**	**17**	**9**	<0.1	**8**	**23**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP238	0-0.2	15/07/2024	Fill	**6**	<0.4	**15**	**7**	**12**	<0.1	**2**	**7**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP238	0.8-1	15/07/2024	Fill	**7**	<0.4	**19**	**13**	**15**	<0.1	**4**	**12**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP238	2-2.2	15/07/2024	Natural	**5**	<0.4	**15**	**16**	**10**	<0.1	**7**	**17**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP240	0-0.2	15/07/2024	Fill	**9**	<0.4	**10**	**13**	**14**	<0.1	**6**	**20**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP240	0.8-1	15/07/2024	Fill	**8**	<0.4	**15**	**24**	**14**	<0.1	**13**	**33**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP240	2-2.2	15/07/2024	Fill	**10**	<0.4	**23**	**12**	**30**	<0.1	**12**	**32**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP240	2.7-2.9	15/07/2024	Natural	**5**	<0.4	**12**	**19**	**11**	<0.1	**8**	**26**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP241	0-0.2	11/07/2024	Fill	**10**	<0.4	**9**	**14**	**16**	<0.1	**4**	**16**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP241	0.5-0.7	11/07/2024	Fill	**8**	<0.4	**14**	**13**	**11**	<0.1	**2**	**7**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP242	0-0.2	15/07/2024	Fill	**9**	<0.4	**7**	**10**	**13**	<0.1	**3**	**12**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP242	0.8-1	15/07/2024	Fill	**11**	<0.4	**10**	**11**	**12**	<0.1	**1**	**5**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP243	0-0.2	15/07/2024	Fill	**9**	<0.4	**8**	**10**	**11**	<0.1	**3**	**12**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP243	2.2-2.4	15/07/2024	Natural	**6**	<0.4	**18**	**20**	**16**	<0.1	**8**	**24**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
BD3/20240715^	2.2-2.4	15/07/2024	Fill	**6**	<0.4	**16**	**17**	**15**	<0.1	**8**	**24**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1

Table J2: Summary of Soil Chemical Laboratory Results - Waste Classification

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	Metals								TRH											BTEX					
				Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	TRH C6 - C9	TRH C6 - C10	TRH C15 - C28	TRH C29 - C36	Total +ve TRH (C10-C36)	TRH >C10-C16	F1 (vTRH C6 - C10 less BTEX)	F2 (TRH >C10-C16 less Naphthalene)	F3 (TRH >C16-C34)	F4 (TRH >C34-C40)	Total +ve TRH (>C10-C40)	Benzene	Toluene	Ethylbenzene	m+p-xylene	o-Xylene	Total +ve Xylenes
NSW EPA Waste Classification (2014) - CT1				100	20	100		100	4	40		650	650			10,000							10	288	600			1000
NSW EPA Waste Classification (2014) - SCC1 and TCLP1				500	100	1900		1500	50	1050		650	650			10,000							18	518	1080			1800
ANZECC (1992) - For Natural Materials				0.2-30	0.04-2	0.5-110	1-190	<2-200	0.001-0.1	2-400	2-180	LRL	LRL	LRL	LRL	LRL	LRL	LRL	LRL	LRL	LRL	LRL	0.05-1	0.1-1				
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL				4	0.4	1	1	1	0.1	1	1	25	25	100	100	50	50	25	50	100	100	50	0.2	0.5	1	2	1	1
TP245	0-0.2	15/07/2024	Fill	**5**	<0.4	**6**	**8**	**9**	<0.1	**2**	**8**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP245	1.8-2	15/07/2024	Fill	**4**	<0.4	**9**	**8**	**11**	<0.1	**5**	**16**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP245	2.4-2.6	15/07/2024	Natural	**5**	<0.4	**13**	**20**	**12**	<0.1	**13**	**25**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
BD1/20240715^	2.4-2.6	15/07/2024	Fill	**6**	<0.4	**14**	**23**	**23**	<0.1	**17**	**31**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP246	0-0.2	10/07/2024	Fill	<4	<0.4	**6**	**9**	**7**	<0.1	**1**	**7**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP246	2.1-2.3	10/07/2024	Natural	**5**	<0.4	**12**	**18**	**20**	<0.1	**10**	**24**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP247	0-0.2	10/07/2024	Fill	**7**	<0.4	**10**	**7**	**12**	<0.1	**2**	**6**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP247	0.9-1.1	10/07/2024	Fill	<4	<0.4	**5**	**11**	**8**	<0.1	<1	**5**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP247	2.6-2.8	10/07/2024	Natural	**5**	<0.4	**15**	**17**	**10**	<0.1	**6**	**17**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP249	0-0.2	10/07/2024	Fill	**5**	<0.4	**7**	**11**	**10**	<0.1	**4**	**16**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP249	0.5-0.7	10/07/2024	Fill	<4	<0.4	**5**	**7**	**9**	<0.1	**1**	**6**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP249	1.4-1.6	10/07/2024	Fill	**7**	<0.4	**16**	**3**	**9**	<0.1	**1**	**4**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP251	0-0.2	10/07/2024	Fill	<4	<0.4	**5**	**8**	**7**	<0.1	**1**	**7**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP253	0-0.2	10/07/2024	Fill	**7**	<0.4	**12**	**9**	**12**	<0.1	**3**	**7**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
TP253	2-2.2	10/07/2024	Natural	**7**	<0.4	**20**	**18**	**29**	<0.1	**13**	**22**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
SS1	0-0.2	16/07/2024	Fill	**9**	<0.4	**22**	**7**	**17**	<0.1	**6**	**23**	<25	<25	<100	**100**	**100**	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
SS4	0-0.2	16/07/2024	Fill	**9**	<0.4	**25**	**6**	**15**	<0.1	**3**	**11**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1
SS5	0-0.2	16/07/2024	Fill	**9**	<0.4	**21**	**8**	**19**	<0.1	**4**	**18**	<25	<25	<100	<100	<50	<50	<25	<50	<100	<100	<50	<0.2	<0.5	<1	<2	<1	<1

Notes:

^	Intra-laboratory replicate listed directly below the primary.
*	Inter-laboratory replicate listed directly below the primary.
LRL	Laboratory reporting limit
bgl	Below ground level (relative to current site levels)

- NSW EPA *Waste Classification Guidelines 2014* .
- Australian and New Zealand Environment and Conservation Council (ANZECC) '*Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites, Environmental Soil Quality Guidelines Background A',* 1992 (ANZECC, 1992).

Table J2: Summary of Soil Chemical Laboratory Results - Waste Classification

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	PAH																	Total Phenolics	OCP	
				Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,j+k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-c,d)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	Benzo(a)pyrene TEQ	Total +ve PAH's		Total +ve DDT+DDD+DDE	Total OCP
NSW EPA Waste Classification (2014) - CT1															0.8					200	288	50	50
NSW EPA Waste Classification (2014) - SCC1 and TCLP1															10					200	518	50	50
ANZECC (1992) - For Natural Materials																				0.95-5	0.03-0.5		<0.001-<0.97
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.1	0.1	0.1	0.5	0.05	5	0.1	LRL
TP201	0-0.2	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP201	0.8-1	12/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP202	0-0.2	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP203	0-0.2	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP203	0.9-1.1	12/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
BD5/20240712^	0.9-1.1	12/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP205	0-0.2	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP205	0.8-1	12/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
BD4/20240712*	0.8-1	12/07/2024	Natural	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
TP206	1.2-1.4	12/07/2024	Natural		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-
BD3/20240712*	1.2-1.4	12/07/2024	Natural	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
TP207	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP207	1-1.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP207	2-2.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP208	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP208	2.8-3	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP209	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP209	1.5-1.7	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP209	2.5-2.7	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP210	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP210	1-1.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP210	2.7-2.9	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP211	0-0.2	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP211	1.8-2	12/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP212	0-0.2	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP212	2-2.2	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP212	2.4-2.6	12/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP213	0-0.2	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP213	0.6-0.8	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP214	0-0.2	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP214	0.9-1.1	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP216	0-0.2	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP216	0.5-0.7	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP216	1.3-1.5	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP216	2.4-2.6	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP216	2.8-3	11/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP218	0-0.2	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP218	0.5-0.7	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP218	1.6-1.8	12/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
BD6/20240712^	1.6-1.8	12/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP220	0-0.2	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP220	0.4-0.6	11/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP221	0-0.2	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP221	1.25-1.35	12/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP222	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP222	1.8-1.9	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP222	2.3-2.5	16/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-

Table J2: Summary of Soil Chemical Laboratory Results - Waste Classification

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	PAH																	Total Phenolics	OCP	
				Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,j+k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-c,d)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	Benzo(a)pyrene TEQ	Total +ve PAH's		Total +ve DDT+DDD+DDE	Total OCP
NSW EPA Waste Classification (2014) - CT1															0.8					200	288	50	50
NSW EPA Waste Classification (2014) - SCC1 and TCLP1															10					200	518	50	50
ANZECC (1992) - For Natural Materials																				0.95-5	0.03-0.5		<0.001-<0.97
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.1	0.1	0.1	0.5	0.05	5	0.1	LRL
TP223	0-0.2	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP223	0.8-1	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP223	3.1-3.3	11/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP223	3.4-3.6	11/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
BD1/20240711^	3.4-3.6	11/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP226	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP226	0.5-0.7	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP227	0-0.2	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP227	1-1.2	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP227	2.4-2.6	11/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
BD4/20240711*	2.4-2.6	11/07/2024	Natural	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
TP228	0-0.2	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP228	1-1.2	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP229	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP229	1-1.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP231	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP231	0.8-1	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP231	3-3.2	16/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
BD4/20240716*	3-3.2	16/07/2024	Fill	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
TP232	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP232	1-1.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP232	1.6-1.8	16/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
BD3/20240716*	1.6-1.8	16/07/2024	Fill	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
TP233	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP233	1-1.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP235	0-0.2	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP235	2.2-2.4	15/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP236	0-0.2	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP236	0.8-1	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP237	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP237	0.8-1	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP237	3-3.2	16/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
BD1/20240716^	3-3.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP238	0-0.2	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP238	0.8-1	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP238	2-2.2	15/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP240	0-0.2	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP240	0.8-1	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP240	2-2.2	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP240	2.7-2.9	15/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP241	0-0.2	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP241	0.5-0.7	11/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP242	0-0.2	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP242	0.8-1	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP243	0-0.2	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP243	2.2-2.4	15/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
BD3/20240715^	2.2-2.4	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-

Table J2: Summary of Soil Chemical Laboratory Results - Waste Classification

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	PAH																	Total Phenolics	OCP	
				Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,j+k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-c,d)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	Benzo(a)pyrene TEQ	Total +ve PAH's		Total +ve DDT+DDD+DDE	Total OCP
NSW EPA Waste Classification (2014) - CT1															0.8					200	288	50	50
NSW EPA Waste Classification (2014) - SCC1 and TCLP1															10					200	518	50	50
ANZECC (1992) - For Natural Materials																				0.95-5	0.03-0.5		<0.001-<0.97
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.1	0.1	0.1	0.5	0.05	5	0.1	LRL
TP245	0-0.2	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP245	1.8-2	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP245	2.4-2.6	15/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
BD1/20240715^	2.4-2.6	15/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP246	0-0.2	10/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP246	2.1-2.3	10/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP247	0-0.2	10/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP247	0.9-1.1	10/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP247	2.6-2.8	10/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP249	0-0.2	10/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP249	0.5-0.7	10/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP249	1.4-1.6	10/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
TP251	0-0.2	10/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP253	0-0.2	10/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
TP253	2-2.2	10/07/2024	Natural	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	<5	<0.1	<LRL
SS1	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
SS4	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-
SS5	0-0.2	16/07/2024	Fill	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05	-	-	-

Notes:

^	Intra-laboratory replicate listed directly below the primary.
*	Inter-laboratory replicate listed directly below the primary.
LRL	Laboratory reporting limit
bgl	Below ground level (relative to current site levels)

- NSW EPA *Waste Classification Guidelines 2014* .
- Australian and New Zealand Environment and Conservation Council (ANZECC) '*Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites, Environmental Soil Quality Guidelines Background A',* 1992 (ANZECC, 1992).

Table J2: Summary of Soil Chemical Laboratory Results - Waste Classification

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	OPP		Total +ve PCBs (1016-1260)	PFAS												Physical Parameters		
				Chlorpyriphos	Total OPP		PFHxS	PFHxS - TCLP	PFOS	PFOS - TCLP	PFOA	PFOA - TCLP	PFHxS & PFOS	PFHxS & PFOS - TCLP	PFOS & PFOA	PFOS & PFOA - TCLP	Total Positive PFAS	Total Positive PFAS - TCLP	pH1:5 soil:water	Electrical Conductivity	Cation Exchange Capacity
NSW EPA Waste Classification (2014) - CT1				4	50	50															
NSW EPA Waste Classification (2014) - SCC1 and TCLP1				7.5	50	50					18	0.5	1.8	0.05							
ANZECC (1992) - For Natural Materials					LRL	LRL	LRL		LRL		LRL		LRL		LRL		LRL				
Units				mg/kg	mg/kg	mg/kg	µg/kg	µg/L	µg/kg	µg/L	µg/kg	µg/L	µg/kg	µg/L	µg/kg	µg/L	µg/kg	µg/L	pH Units	µS/cm	meq/100g
PQL				0.1	LRL	0.1	5	0.01	5	0.01	5	0.01	5	0.01	5	0.01	5	0.01	-	1	1
TP201	0-0.2	12/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**6.1**	**61**	-
TP201	0.8-1	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.1**	**370**	-
TP202	0-0.2	12/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**5.5**	**310**	-
TP203	0-0.2	12/07/2024	Fill	<0.1	<LRL	<0.1	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	**5.7**	**420**	-
TP203	0.9-1.1	12/07/2024	Natural	-	-	-	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	**4.7**	**1300**	-
BD5/20240712^	0.9-1.1	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP205	0-0.2	12/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**6.9**	**450**	-
TP205	0.8-1	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.6**	**530**	**7.2**
BD4/20240712*	0.8-1	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP206	1.2-1.4	12/07/2024	Natural		-	-	-		-	-	-		-	-	-		-	-			
BD3/20240712*	1.2-1.4	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP207	0-0.2	16/07/2024	Fill	<0.1	<LRL	<0.1	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	**6.1**	**95**	-
TP207	1-1.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.8**	**230**	-
TP207	2-2.2	16/07/2024	Fill	-	-	-	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	**6.5**	**86**	-
TP208	0-0.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.3**	**91**	-
TP208	2.8-3	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.5**	**80**	-
TP209	0-0.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.2**	**130**	-
TP209	1.5-1.7	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.4**	**100**	**7.3**
TP209	2.5-2.7	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.6**	**580**	-
TP210	0-0.2	16/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**6.1**	**120**	-
TP210	1-1.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.2**	**120**	-
TP210	2.7-2.9	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.8**	**160**	-
TP211	0-0.2	12/07/2024	Fill	<0.1	<LRL	<0.1	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	**7.1**	**190**	-
TP211	1.8-2	12/07/2024	Natural	-	-	-	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	**5.6**	**84**	-
TP212	0-0.2	12/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**7.4**	**390**	-
TP212	2-2.2	12/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.6**	**460**	-
TP212	2.4-2.6	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.1**	**150**	-
TP213	0-0.2	12/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**6.3**	**600**	-
TP213	0.6-0.8	12/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.5**	**410**	-
TP214	0-0.2	12/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**5.9**	**160**	**13**
TP214	0.9-1.1	12/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP216	0-0.2	11/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**7.2**	**390**	-
TP216	0.5-0.7	11/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**8.4**	**460**	-
TP216	1.3-1.5	11/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.2**	**380**	-
TP216	2.4-2.6	11/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**6.2**	**75**	-
TP216	2.8-3	11/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.1**	**200**	-
TP218	0-0.2	12/07/2024	Fill	<0.1	<LRL	<0.1	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	**6.1**	**470**	-
TP218	0.5-0.7	12/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP218	1.6-1.8	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.2**	**730**	-
BD6/20240712^	1.6-1.8	12/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP220	0-0.2	11/07/2024	Fill	<0.1	<LRL	<0.1	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	**6.1**	**650**	-
TP220	0.4-0.6	11/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.7**	**480**	-
TP221	0-0.2	12/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**5.6**	**290**	**11**
TP221	1.25-1.35	12/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP222	0-0.2	16/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**5.8**	**180**	-
TP222	1.8-1.9	16/07/2024	Fill	-	-	-	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	**5.0**	**470**	-
TP222	2.3-2.5	16/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.1**	**130**	-

Table J2: Summary of Soil Chemical Laboratory Results - Waste Classification

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	OPP		Total +ve PCBs (1016-1260)	PFAS												Physical Parameters		
				Chlorpyriphos	Total OPP		PFHxS	PFHxS - TCLP	PFOS	PFOS - TCLP	PFOA	PFOA - TCLP	PFHxS & PFOS	PFHxS & PFOS - TCLP	PFOS & PFOA	PFOS & PFOA - TCLP	Total Positive PFAS	Total Positive PFAS - TCLP	pH1:5 soil:water	Electrical Conductivity	Cation Exchange Capacity
NSW EPA Waste Classification (2014) - CT1				4	50	50															
NSW EPA Waste Classification (2014) - SCC1 and TCLP1				7.5	50	50					18	0.5	1.8	0.05							
ANZECC (1992) - For Natural Materials					LRL	LRL	LRL		LRL		LRL		LRL		LRL		LRL				
Units				mg/kg	mg/kg	mg/kg	µg/kg	µg/L	µg/kg	µg/L	µg/kg	µg/L	µg/kg	µg/L	µg/kg	µg/L	µg/kg	µg/L	pH Units	µS/cm	meq/100g
PQL				0.1	LRL	0.1	5	0.01	5	0.01	5	0.01	5	0.01	5	0.01	5	0.01	-	1	1
TP223	0-0.2	11/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**7.1**	**660**	-
TP223	0.8-1	11/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4.8**	**500**	-
TP223	3.1-3.3	11/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.2**	**310**	-
TP223	3.4-3.6	11/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4.7**	**190**	-
BD1/20240711^	3.4-3.6	11/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP226	0-0.2	16/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	**8.0**	**750**	**23**
TP226	0.5-0.7	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP227	0-0.2	11/07/2024	Fill	<0.1	<LRL	<0.1	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	**5.6**	**360**	-
TP227	1-1.2	11/07/2024	Fill	-	-	-	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	**7.3**	**630**	-
TP227	2.4-2.6	11/07/2024	Natural	-	-	-	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	**6.4**	**160**	-
BD4/20240711*	2.4-2.6	11/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP228	0-0.2	11/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP228	1-1.2	11/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP229	0-0.2	16/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	6.1	63	4.7
TP229	1-1.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.8	120	-
TP231	0-0.2	16/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	6.3	290	-
TP231	0.8-1	16/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	6.7	290	-
TP231	3-3.2	16/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9	320	-
BD4/20240716*	3-3.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP232	0-0.2	16/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	6.4	190	-
TP232	1-1.2	16/07/2024	Fill	-	-	-	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	6.8	410	12
TP232	1.6-1.8	16/07/2024	Natural	-	-	-	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	5.5	660	-
BD3/20240716*	1.6-1.8	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP233	0-0.2	16/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	7.8	400	-
TP233	1-1.2	16/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	5.5	210	-
TP235	0-0.2	15/07/2024	Fill	-	-	-	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	-	-	-
TP235	2.2-2.4	15/07/2024	Natural	-	-	-	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	7.2	330	-
TP236	0-0.2	15/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	7.5	200	-
TP236	0.8-1	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3	290	-
TP237	0-0.2	16/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	6.1	760	-
TP237	0.8-1	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	620	-
TP237	3-3.2	16/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3	260	-
BD1/20240716^	3-3.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP238	0-0.2	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9	340	-
TP238	0.8-1	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	350	-
TP238	2-2.2	15/07/2024	Natural	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	6.4	280	-
TP240	0-0.2	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.8	160	-
TP240	0.8-1	15/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	5.7	270	-
TP240	2-2.2	15/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP240	2.7-2.9	15/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4	90	-
TP241	0-0.2	11/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	5.9	210	-
TP241	0.5-0.7	11/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8	440	11
TP242	0-0.2	15/07/2024	Fill	-	-	-	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	5.3	180	-
TP242	0.8-1	15/07/2024	Fill	-	-	-	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	5.5	350	-
TP243	0-0.2	15/07/2024	Fill	<0.1	<LRL	<0.1	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	5.5	260	-
TP243	2.2-2.4	15/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.3	670	-
BD3/20240715^	2.2-2.4	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table J2: Summary of Soil Chemical Laboratory Results - Waste Classification

Sample Location	Sample Depth (m bgl)	Sample Date	Matrix	OPP		Total +ve PCBs (1016-1260)	PFAS												Physical Parameters		
				Chlorpyriphos	Total OPP		PFHxS	PFHxS - TCLP	PFOS	PFOS - TCLP	PFOA	PFOA - TCLP	PFHxS & PFOS	PFHxS & PFOS - TCLP	PFOS & PFOA	PFOS & PFOA - TCLP	Total Positive PFAS	Total Positive PFAS - TCLP	pH1:5 soil:water	Electrical Conductivity	Cation Exchange Capacity
NSW EPA Waste Classification (2014) - CT1				4	50	50															
NSW EPA Waste Classification (2014) - SCC1 and TCLP1				7.5	50	50					18	0.5	1.8	0.05							
ANZECC (1992) - For Natural Materials					LRL	LRL	LRL		LRL		LRL		LRL		LRL		LRL				
Units				mg/kg	mg/kg	mg/kg	µg/kg	µg/L	µg/kg	µg/L	µg/kg	µg/L	µg/kg	µg/L	µg/kg	µg/L	µg/kg	µg/L	pH Units	µS/cm	meq/100g
PQL				0.1	LRL	0.1	5	0.01	5	0.01	5	0.01	5	0.01	5	0.01	5	0.01	-	1	1
TP245	0-0.2	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	560	-
TP245	1.8-2	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9	330	-
TP245	2.4-2.6	15/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4	310	-
BD1/20240715^	2.4-2.6	15/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP246	0-0.2	10/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	5.8	540	14
TP246	2.1-2.3	10/07/2024	Natural	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	6.9	220	-
TP247	0-0.2	10/07/2024	Fill	-	-	-	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	5.7	350	-
TP247	0.9-1.1	10/07/2024	Fill	<0.1	<LRL	<0.1	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	4.7	560	-
TP247	2.6-2.8	10/07/2024	Natural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP249	0-0.2	10/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.7	710	-
TP249	0.5-0.7	10/07/2024	Fill	<0.1	<LRL	<0.1	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	<5	<0.01	4.9	220	-
TP249	1.4-1.6	10/07/2024	Fill	-	-	-	<5	-	<5	-	<5	-	<5	-	<5	-	<5	-	-	-	-
TP251	0-0.2	10/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP253	0-0.2	10/07/2024	Fill	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	7.2	250	16
TP253	2-2.2	10/07/2024	Natural	<0.1	<LRL	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	5.8	500	-
SS1	0-0.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS4	0-0.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2	110	-
SS5	0-0.2	16/07/2024	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3	140	-

Notes:

^	Intra-laboratory replicate listed directly below the primary.
*	Inter-laboratory replicate listed directly below the primary.
LRL	Laboratory reporting limit
bgl	Below ground level (relative to current site levels)

- NSW EPA *Waste Classification Guidelines 2014* .
- Australian and New Zealand Environment and Conservation Council (ANZECC) '*Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites, Environmental Soil Quality Guidelines Background A',* 1992 (ANZECC, 1992).

Table J3: Summary of Soil Asbestos Analysis Results

Sample Location	Sample Depth (m bgl)	Sample Date	Field ACM Sieving Results					Laboratory Results			
			Weight of 10L Bulk Sample	Number of Fragments >7mm (in 10L sample)	Condition of Fragments (good/poor)	Size of Fragments	Weight of ACM Collected	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation	AF and FA Estimation	AF and FA Estimation
Units			g	-	-	mm	g	g/kg	g	g	%(w/w)
PQL			-	-	-	-	-	0.1	--	--	<0.001
TP201	0-0.2	12/07/2024	19970	0	-	-	-	<0.1	-	-	<0.001
TP202	0-0.2	12/07/2024	21400	0	-	-	-	<0.1	-	-	<0.001
TP203	0-0.2	12/07/2024	17990	0	-	-	-	<0.1	-	-	<0.001
TP204	0-0.05	12/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP205	0-0.2	12/07/2024	17240	0	-	-	-	<0.1	-	-	<0.001
TP206	0-0.2	12/07/2024	20250	0	-	-	-	<0.1	-	-	<0.001
TP207	0-0.2	16/07/2024	18110	0	-	-	-	<0.1	-	-	<0.001
TP207	0.5-0.7	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP207	1-1.2	16/07/2024	20100	0	-	-	-	<0.1	-	-	<0.001
TP207	2-2.2	16/07/2024	18170	0	-	-	-	<0.1	-	-	<0.001
TP208	0-0.2	16/07/2024	20100	0	-	-	-	<0.1	-	-	<0.001
TP208	0.5-0.7	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP208	0.9-1.1	16/07/2024	19750	0	-	-	-	-	-	-	-
TP208	1.9-2.1	16/07/2024	17060	0	-	-	-	<0.1	-	-	<0.001
TP208	2.8-3	16/07/2024	18810	0	-	-	-	<0.1	-	-	<0.001
TP209	0-0.2	16/07/2024	19940	0	-	-	-	<0.1	-	-	<0.001
TP209	0.5-0.7	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP209	1.5-1.7	16/07/2024	18180	0	-	-	-	<0.1	-	-	<0.001
TP209	2.5-2.7	16/07/2024	19550	0	-	-	-	<0.1	-	-	<0.001
TP210	0-0.2	16/07/2024	20010	0	-	-	-	<0.1	-	-	<0.001
TP210	0.5-0.7	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP210	1-1.2	16/07/2024	19840	0	-	-	-	<0.1	-	-	<0.001
TP210	1.7-1.9	16/07/2024	18660	0	-	-	-	<0.1	-	-	<0.001
TP210	2.7-2.9	16/07/2024	19410	0	-	-	-	<0.1	-	-	<0.001
TP211	0-0.2	12/07/2024	18950	0	-	-	-	<0.1	-	-	<0.001
TP211	0.5-0.7	12/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP211	0.9-1.1	12/07/2024	20150	0	-	-	-	<0.1	-	-	<0.001
TP211	1.2-1.35	12/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP212	0-0.2	12/07/2024	18770	0	-	-	-	<0.1	-	-	<0.001
TP212	0.5-0.7	12/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP212	1-1.2	12/07/2024	18450	0	-	-	-	<0.1	-	-	<0.001
TP212	2-2.2	12/07/2024	19540	0	-	-	-	<0.1	-	-	<0.001
TP213	0-0.2	12/07/2024	20190	0	-	-	-	<0.1	-	-	<0.001
TP213	0.3-0.5	12/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP213	0.6-0.8	12/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP213	0.8-0.9	12/07/2024	16990	0	-	-	-	<0.1	-	-	<0.001
TP214	0-0.2	12/07/2024	20810	0	-	-	-	<0.1	-	-	<0.001
TP214	0.4-0.6	12/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP214	0.9-1.1	12/07/2024	19720	0	-	-	-	<0.1	-	-	<0.001
TP214	1.9-2.1	12/07/2024	18720	0	-	-	-	<0.1	-	-	<0.001
TP215	0-0.2	12/07/2024	19210	0	-	-	-	<0.1	-	-	<0.001
TP215	0.5-0.7	12/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP216	0-0.2	11/07/2024	19560	0	-	-	-	<0.1	-	-	<0.001
TP216	0.5-0.7	11/07/2024	18760	0	-	-	-	<0.1	-	-	<0.001
TP216	0.8-1	11/07/2024	19950	0	-	-	-	<0.1	-	-	<0.001
TP216	1.3-1.5	11/07/2024	18690	0	-	-	-	<0.1	-	-	<0.001
TP216	1.8-2	11/07/2024	19550	0	-	-	-	<0.1	-	-	<0.001
TP216	2.4-2.6	11/07/2024	18560	0	-	-	-	<0.1	-	-	<0.001
TP217	0-0.2	11/07/2024	19220	0	-	-	-	<0.1	-	-	<0.001
TP217	0.4-0.6	11/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP217	0.9-1.1	11/07/2024	19900	0	-	-	-	<0.1	-	-	<0.001

Table J3: Summary of Soil Asbestos Analysis Results

Sample Location	Sample Depth (m bgl)	Sample Date	Field ACM Sieving Results					Laboratory Results			
			Weight of 10L Bulk Sample	Number of Fragments >7mm (in 10L sample)	Condition of Fragments (good/poor)	Size of Fragments	Weight of ACM Collected	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation	AF and FA Estimation	AF and FA Estimation
Units			g	-	-	mm	g	g/kg	g	g	%(w/w)
PQL			-	-	-	-	-	0.1	--	--	<0.001
TP217	1.7-1.9	11/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP217	2.15-2.35	11/07/2024	18290	0	-	-	-	<0.1	-	-	<0.001
TP218	0-0.2	12/07/2024	19220	0	-	-	-	<0.1	-	-	<0.001
TP218	1-1.2	12/07/2024	18970	0	-	-	-	<0.1	-	-	<0.001
TP219	0-0.2	11/07/2024	18950	0	-	-	-	<0.1	-	-	<0.001
TP219	0.5-0.7	11/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP219	0.9-1.1	11/07/2024	19990	0	-	-	-	<0.1	-	-	<0.001
TP219	1.6-1.8	11/07/2024	18750	0	-	-	-	<0.1	-	-	<0.001
TP220	0-0.2	11/07/2024	18750	0	-	-	-	<0.1	-	-	<0.001
TP221	0-0.2	12/07/2024	20000	0	-	-	-	<0.1	-	-	<0.001
TP221	0.5-0.7	12/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP221	1.25-1.35	12/07/2024	18970	0	-	-	-	<0.1	-	-	<0.001
TP222	0-0.2	16/07/2024	18640	0	-	-	-	<0.1	-	-	<0.001
TP222	0.3-0.5	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP222	0.8-1	16/07/2024	20000	0	-	-	-	<0.1	-	-	<0.001
TP222	1.8-1.9	16/07/2024	19450	0	-	-	-	<0.1	-	-	<0.001
TP223	0-0.2	11/07/2024	19550	0	-	-	-	<0.1	-	-	<0.001
TP223	0.3-0.5	11/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP223	0.8-1	11/07/2024	18540	0	-	-	-	<0.1	-	-	<0.001
TP223	1.8-2	11/07/2024	17450	0	-	-	-	<0.1	-	-	<0.001
TP223	3.1-3.3	11/07/2024	18850	0	-	-	-	<0.1	-	-	<0.001
TP224	0-0.2	12/07/2024	18720	0	-	-	-	<0.1	-	-	<0.001
TP224	0.5-0.7	12/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP225	0-0.2	11/07/2024	18770	0	-	-	-	<0.1	-	-	<0.001
TP225	0.5-0.7	11/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP225	0.7-0.9	11/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP225	1-1.2	11/07/2024	19700	0	-	-	-	<0.1	-	-	<0.001
TP225	1.9-2.1	11/07/2024	18550	0	-	-	-	<0.1	-	-	<0.001
TP225	2.2-2.4	11/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP226	0-0.2	16/07/2024	18620	0	-	-	-	<0.1	-	-	<0.001
TP226	0.5-0.7	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP226	1-1.2	16/07/2024	19210	0	-	-	-	<0.1	-	-	<0.001
TP227	0-0.2	11/07/2024	18990	0	-	-	-	<0.1	-	-	<0.001
TP227	0.5-0.7	11/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP227	1-1.2	11/07/2024	18570	0	-	-	-	<0.1	-	-	<0.001
TP227	1.8-2	11/07/2024	19900	0	-	-	-	<0.1	-	-	<0.001
TP228	0-0.2	11/07/2024	18260	0	-	-	-	<0.1	-	-	<0.001
TP228	0.5-0.7	11/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP228	1-1.2	11/07/2024	19210	0	-	-	-	<0.1	-	-	<0.001
TP229	0-0.2	16/07/2024	19220	0	-	-	-	<0.1	-	-	<0.001
TP229	0.5-0.7	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP229	1-1.2	16/07/2024	18470	0	-	-	-	<0.1	-	-	<0.001
TP229	1.9-2.1	16/07/2024	19000	0	-	-	-	<0.1	-	-	<0.001
TP229	2.3-2.5	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP230	0-0.2	16/07/2024	19910	0	-	-	-	<0.1	-	-	<0.001
TP230	1-1.2	16/07/2024	20000	0	-	-	-	<0.1	-	-	<0.001
TP230	2-2.2	16/07/2024	18410	0	-	-	-	<0.1	-	-	<0.001
TP230	2.6-2.8	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP231	0-0.2	16/07/2024	18210	0	-	-	-	<0.1	-	-	<0.001
TP231	0.3-0.5	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP231	0.8-1	16/07/2024	17990	0	-	-	-	<0.1	-	-	<0.001

Table J3: Summary of Soil Asbestos Analysis Results

Sample Location	Sample Depth (m bgl)	Sample Date	Field ACM Sieving Results					Laboratory Results			
			Weight of 10L Bulk Sample	Number of Fragments >7mm (in 10L sample)	Condition of Fragments (good/poor)	Size of Fragments	Weight of ACM Collected	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation	AF and FA Estimation	AF and FA Estimation
Units			g	-	-	mm	g	g/kg	g	g	%(w/w)
PQL			-	-	-	-	-	0.1	--	--	<0.001
TP231	1.2-1.4	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP231	2.2-2.4	16/07/2024	20100	0	-	-	-	<0.1	-	-	<0.001
TP232	0-0.2	16/07/2024	18610	0	-	-	-	<0.1	-	-	<0.001
TP232	0.3-0.5	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP232	1-1.2	16/07/2024	17990	0	-	-	-	<0.1	-	-	<0.001
TP233	0-0.2	16/07/2024	19640	0	-	-	-	<0.1	-	-	<0.001
TP233	0.5-0.7	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP233	1-1.2	16/07/2024	18400	0	-	-	-	<0.1	-	-	<0.001
TP233	1.4-1.6	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP234	0-0.2	15/07/2024	19700	0	-	-	-	<0.1	-	-	<0.001
TP234	0.3-0.5	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP234	0.8-1	15/07/2024	18310	0	-	-	-	-	-	-	-
TP234	1.2-1.4	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP234	1.8-2	15/07/2024	19940	0	-	-	-	<0.1	-	-	<0.001
TP235	0-0.2	15/07/2024	18690	0	-	-	-	<0.1	-	-	<0.001
TP235	0.3-0.5	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP235	0.8-1	15/07/2024	19330	0	-	-	-	<0.1	-	-	<0.001
TP235	1.7-1.9	15/07/2024	18640	0	-	-	-	<0.1	-	-	<0.001
TP236	0-0.2	15/07/2024	19320	0	-	-	-	<0.1	-	-	<0.001
TP236	0.3-0.5	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP236	0.8-1	15/07/2024	18110	0	-	-	-	<0.1	-	-	<0.001
TP236	1.2-1.4	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP237	0-0.2	16/07/2024	18440	0	-	-	-	<0.1	-	-	<0.001
TP237	0.3-0.5	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP237	0.8-1	16/07/2024	19100	0	-	-	-	<0.1	-	-	<0.001
TP237	1.8-2	16/07/2024	20140	0	-	-	-	<0.1	-	-	<0.001
TP238	0-0.2	15/07/2024	19730	0	-	-	-	<0.1	-	-	<0.001
TP238	0.3-0.5	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP238	0.8-1	15/07/2024	19730	0	-	-	-	<0.1	-	-	<0.001
TP238	1.6-1.8	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP239	0-0.2	15/07/2024	19180	0	-	-	-	<0.1	-	-	<0.001
TP239	0.5-0.7	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP239	1-1.2	15/07/2024	18870	0	-	-	-	-	-	-	-
TP239	1.8-2	15/07/2024	18930	0	-	-	-	<0.1	-	-	<0.001
TP240	0-0.2	15/07/2024	18490	0	-	-	-	<0.1	-	-	<0.001
TP240	0.3-0.5	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP240	0.8-1	15/07/2024	18470	0	-	-	-	<0.1	-	-	<0.001
TP240	1.8-2	15/07/2024	19760	0	-	-	-	<0.1	-	-	<0.001
TP240	2-2.2	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP241	0-0.2	11/07/2024	20110	0	-	-	-	-	-	-	-
TP241	0.5-0.7	11/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP241	1-1.2	11/07/2024	19620	0	-	-	-	-	-	-	-
TP241	2-2.2	11/07/2024	18960	0	-	-	-	<0.1	-	-	<0.001
TP242	0-0.2	15/07/2024	18730	0	-	-	-	<0.1	-	-	<0.001
TP242	0.3-0.5	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP242	0.8-1	15/07/2024	19210	0	-	-	-	<0.1	-	-	<0.001
TP243	0-0.2	15/07/2024	18770	0	-	-	-	<0.1	-	-	<0.001
TP243	0.7-0.9	15/07/2024	19240	0	-	-	-	-	-	-	-
TP244	0-0.2	15/07/2024	18590	0	-	-	-	<0.1	-	-	<0.001
TP244	1-1.2	15/07/2024	18240	0	-	-	-	<0.1	-	-	<0.001
TP244	2-2.2	15/07/2024	18470	0	-	-	-	-	-	-	-

Table J3: Summary of Soil Asbestos Analysis Results

Sample Location	Sample Depth (m bgl)	Sample Date	Field ACM Sieving Results					Laboratory Results			
			Weight of 10L Bulk Sample	Number of Fragments >7mm (in 10L sample)	Condition of Fragments (good/poor)	Size of Fragments	Weight of ACM Collected	Asbestos ID in soil <0.1g/kg	ACM >7mm Estimation	AF and FA Estimation	AF and FA Estimation
Units			g	-	-	mm	g	g/kg	g	g	%(w/w)
PQL			-	-	-	-	-	0.1	--	--	<0.001
TP244	2.2-2.3	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP245	0-0.2	15/07/2024	19570	0	-	-	-	<0.1	-	-	<0.001
TP245	0.5-0.7	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP245	1-1.2	15/07/2024	18970	0	-	-	-	<0.1	-	-	<0.001
TP245	1.8-2	15/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP246	0-0.2	10/07/2024	19220	0	-	-	-	<0.1	-	-	<0.001
TP246	0.4-0.6	10/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP246	0.9-1.1	10/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP246	1.7-1.9	10/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP247	0-0.2	10/07/2024	19240	0	-	-	-	<0.1	-	-	<0.001
TP247	0.5-0.7	10/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP247	0.9-1.1	10/07/2024	18770	0	-	-	-	<0.1	-	-	<0.001
TP247	1.3-1.5	10/07/2024	19000	0	-	-	-	<0.1	-	-	<0.001
TP247	2.1-2.3	10/07/2024	16242	0	-	-	-	<0.1	-	-	<0.001
TP248	0-0.2	10/07/2024	18200	0	-	-	-	<0.1	-	-	<0.001
TP248	0.5-0.7	10/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP248	1-1.2	10/07/2024	20090	0	-	-	-	<0.1	-	-	<0.001
TP248	1.6-1.8	10/07/2024	17620	0	-	-	-	<0.1	-	-	<0.001
TP249	0-0.2	10/07/2024	18800	0	-	-	-	<0.1	-	-	<0.001
TP249	0.5-0.7	10/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP249	1-1.2	10/07/2024	18950	0	-	-	-	<0.1	-	-	<0.001
TP249	2.25-2.35	10/07/2024	18040	0	-	-	-	<0.1	-	-	<0.001
TP250	0-0.2	10/07/2024	18240	0	-	-	-	<0.1	-	-	<0.001
TP250	0.3-0.5	10/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP250	0.9-1	10/07/2024	19020	0	-	-	-	-	-	-	-
TP250	1.5-1.7	10/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP250	2.2-2.3	10/07/2024	17090	0	-	-	-	<0.1	-	-	<0.001
TP251	0-0.2	10/07/2024	19020	0	-	-	-	<0.1	-	-	<0.001
TP251	0.5-0.7	10/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP251	1-1.2	10/07/2024	18420	0	-	-	-	<0.1	-	-	<0.001
TP251	1.7-1.8	10/07/2024	16040	0	-	-	-	<0.1	-	-	<0.001
TP252	0-0.2	10/07/2024	18070	0	-	-	-	<0.1	-	-	<0.001
TP252	0.4-0.6	10/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP252	0.9-1.1	10/07/2024	19220	0	-	-	-	-	-	-	-
TP252	1.4-1.6	10/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP252	2.2-2.3	10/07/2024	17900	0	-	-	-	<0.1	-	-	<0.001
TP253	0-0.2	10/07/2024	18320	0	-	-	-	<0.1	-	-	<0.001
TP253	0.5-0.7	10/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP253	1-1.2	10/07/2024	19610	0	-	-	-	<0.1	-	-	<0.001
TP254	0-0.2	16/07/2024	18880	0	-	-	-	<0.1	-	-	<0.001
TP254	0.5-0.7	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
TP254	1-1.2	16/07/2024	18840	0	-	-	-	-	-	-	-
TP254	1.6-1.8	16/07/2024	17800	0	-	-	-	<0.1	-	-	<0.001
TP254	2.6-2.8	16/07/2024	19710	0	-	-	-	-	-	-	-
SS1	0.0-0.2	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
SS2	0.0-0.2	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
SS3	0.0-0.2	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
SS4	0.0-0.2	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001
SS5	0.0-0.2	16/07/2024	-	-	-	-	-	<0.1	-	-	<0.001

Notes:

bgl Below ground level (relative to current site levels)

Appendix K

Laboratory Certificates

Envirolab Services Pty Ltd
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CERTIFICATE OF ANALYSIS 356782

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**207476.06 Erskine Park (Satge 1)**
Number of Samples	149 Soil, 1 Water
Date samples received	17/07/2024
Date completed instructions received	17/07/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	24/07/2024
Date of Issue	24/07/2024

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Asbestos Approved By
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Results Approved By
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Giovanni Agosti, Group Technical Manager
Jack Wallis, Chemist (FAS)
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Lucy Zhu, Asbestos Supervisor
Sean McAlary, Chemist (FAS)

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356782-1	356782-3	356782-4	356782-7	356782-9
Your Reference	UNITS	TP201	TP201	TP202	TP203	TP203
Depth		0-0.2	0.8-1	0-0.2	0-0.2	0.9-1.1
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	84	81	84	73	82

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356782-13	356782-15	356782-20	356782-22	356782-23
Your Reference	UNITS	TP205	TP205	TP207	TP207	TP207
Depth		0-0.2	0.8-1	0-0.2	1-1.2	2-2.2
Date Sampled		12/07/2024	12/07/2024	16/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	74	81	81	74	92

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356782-32	356782-33	356782-35	356782-37	356782-39
Your Reference	UNITS	TP209	TP210	TP210	TP210	TP211
Depth		2.5-2.7	0-0.2	1-1.2	2.7-2.9	0-0.2
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	83	64	66	73	70

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356782-44	356782-45	356782-48	356782-49	356782-51
Your Reference	UNITS	TP211	TP212	TP212	TP212	TP213
Depth		1.8-2	0-0.2	2-2.2	2.4-2.6	0-0.2
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	74	83	87	81	85

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356782-53	356782-57	356782-59	356782-67	356782-70
Your Reference	UNITS	TP213	TP214	TP214	TP216	TP216
Depth		0.6-0.8	0-0.2	0.9-1.1	0-0.2	1.3-1.5
Date Sampled		12/07/2024	12/07/2024	12/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	80	80	83	87

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356782-72	356782-82	356782-83	356782-86	356782-93
Your Reference	UNITS	TP216	TP218	TP218	TP218	TP220
Depth		2.4-2.6	0-0.2	0.5-0.7	1.6-1.8	0-0.2
Date Sampled		11/07/2024	12/07/2024	12/07/2024	12/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	88	84	90	85	83

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356782-94	356782-96	356782-98	356782-101	356782-104
Your Reference	UNITS	TP220	TP221	TP221	TP222	TP222
Depth		0.4-0.6	0-0.2	1.25-1.35	0-0.2	1.8-1.9
Date Sampled		11/07/2024	12/07/2024	12/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	29	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	29	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	81	81	87	86	87

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356782-105	356782-107	356782-109	356782-125	356782-126
Your Reference	UNITS	TP222	TP223	TP223	TP226	TP226
Depth		2.3-2.5	0-0.2	0.8-1	0-0.2	0.5-0.7
Date Sampled		16/07/2024	11/07/2024	11/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	81	84	82	84	85

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356782-128	356782-130	356782-133	356782-134	356782-145
Your Reference	UNITS	TP227	TP227	TP227	SS1	BD5/20240712
Depth		0-0.2	1-1.2	2.4-2.6	0-0.2	-
Date Sampled		11/07/2024	11/07/2024	11/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	83	82	87	85	83

vTRH(C6-C10)/BTEXN in Soil				
Our Reference		356782-146	356782-147	356782-148
Your Reference	UNITS	BD6/20240712	TS-120724	TB-120724
Depth		-	-	-
Date Sampled		12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	[NA]	<25
TRH C_6 - C_{10}	mg/kg	<25	[NA]	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	[NA]	<25
Benzene	mg/kg	<0.2	108%	<0.2
Toluene	mg/kg	<0.5	101%	<0.5
Ethylbenzene	mg/kg	<1	100%	<1
m+p-xylene	mg/kg	<2	100%	<2
o-Xylene	mg/kg	<1	100%	<1
Naphthalene	mg/kg	<1	[NA]	<1
Total +ve Xylenes	mg/kg	<1	[NA]	<1
Surrogate aaa-Trifluorotoluene	%	87	101	72

svTRH (C10-C40) in Soil						
Our Reference		356782-1	356782-3	356782-4	356782-7	356782-9
Your Reference	UNITS	TP201	TP201	TP202	TP203	TP203
Depth		0-0.2	0.8-1	0-0.2	0-0.2	0.9-1.1
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	21/07/2024	21/07/2024	21/07/2024	21/07/2024	21/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	88	91	90	86	88

svTRH (C10-C40) in Soil						
Our Reference		356782-13	356782-15	356782-20	356782-22	356782-23
Your Reference	UNITS	TP205	TP205	TP207	TP207	TP207
Depth		0-0.2	0.8-1	0-0.2	1-1.2	2-2.2
Date Sampled		12/07/2024	12/07/2024	16/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	21/07/2024	21/07/2024	21/07/2024	21/07/2024	21/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	88	88	85	84	83

svTRH (C10-C40) in Soil						
Our Reference		356782-32	356782-33	356782-35	356782-37	356782-39
Your Reference	UNITS	TP209	TP210	TP210	TP210	TP211
Depth		2.5-2.7	0-0.2	1-1.2	2.7-2.9	0-0.2
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	21/07/2024	21/07/2024	21/07/2024	21/07/2024	21/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	240	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	360	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	600	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	66	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	66	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	480	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	260	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	810	<50	<50	<50	<50
Surrogate o-Terphenyl	%	91	82	81	82	87

svTRH (C10-C40) in Soil						
Our Reference		356782-44	356782-45	356782-48	356782-49	356782-51
Your Reference	UNITS	TP211	TP212	TP212	TP212	TP213
Depth		1.8-2	0-0.2	2-2.2	2.4-2.6	0-0.2
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	21/07/2024	21/07/2024	21/07/2024	21/07/2024	21/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	89	81	81	91	90

svTRH (C10-C40) in Soil						
Our Reference		356782-53	356782-57	356782-59	356782-67	356782-70
Your Reference	UNITS	TP213	TP214	TP214	TP216	TP216
Depth		0.6-0.8	0-0.2	0.9-1.1	0-0.2	1.3-1.5
Date Sampled		12/07/2024	12/07/2024	12/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	21/07/2024	21/07/2024	21/07/2024	21/07/2024	21/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	86	87	83	77	83

svTRH (C10-C40) in Soil						
Our Reference		356782-72	356782-82	356782-83	356782-86	356782-93
Your Reference	UNITS	TP216	TP218	TP218	TP218	TP220
Depth		2.4-2.6	0-0.2	0.5-0.7	1.6-1.8	0-0.2
Date Sampled		11/07/2024	12/07/2024	12/07/2024	12/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	21/07/2024	21/07/2024	21/07/2024	21/07/2024	21/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	79	78	77	95	75

svTRH (C10-C40) in Soil						
Our Reference		356782-94	356782-96	356782-98	356782-101	356782-104
Your Reference	UNITS	TP220	TP221	TP221	TP222	TP222
Depth		0.4-0.6	0-0.2	1.25-1.35	0-0.2	1.8-1.9
Date Sampled		11/07/2024	12/07/2024	12/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	21/07/2024	21/07/2024	21/07/2024	21/07/2024	21/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	75	80	78	81	75

svTRH (C10-C40) in Soil						
Our Reference		356782-105	356782-107	356782-109	356782-125	356782-126
Your Reference	UNITS	TP222	TP223	TP223	TP226	TP226
Depth		2.3-2.5	0-0.2	0.8-1	0-0.2	0.5-0.7
Date Sampled		16/07/2024	11/07/2024	11/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	21/07/2024	21/07/2024	21/07/2024	21/07/2024	21/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	75	78	83	80	79

svTRH (C10-C40) in Soil						
Our Reference		356782-128	356782-130	356782-133	356782-134	356782-145
Your Reference	UNITS	TP227	TP227	TP227	SS1	BD5/20240712
Depth		0-0.2	1-1.2	2.4-2.6	0-0.2	-
Date Sampled		11/07/2024	11/07/2024	11/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	21/07/2024	21/07/2024	21/07/2024	21/07/2024	21/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	100	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	77	79	77	81	79

svTRH (C10-C40) in Soil		
Our Reference		356782-146
Your Reference	UNITS	BD6/20240712
Depth		-
Date Sampled		12/07/2024
Type of sample		Soil
Date extracted	-	19/07/2024
Date analysed	-	21/07/2024
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{29} - C_{36}	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	<50
TRH >C_{10} -C_{16}	mg/kg	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50
TRH >C_{16} -C_{34}	mg/kg	<100
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	82

PAHs in Soil						
Our Reference		356782-1	356782-3	356782-4	356782-7	356782-9
Your Reference	UNITS	TP201	TP201	TP202	TP203	TP203
Depth		0-0.2	0.8-1	0-0.2	0-0.2	0.9-1.1
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	22/07/2024	19/07/2024	19/07/2024	22/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	102	88	105	112	90

PAHs in Soil						
Our Reference		356782-13	356782-15	356782-20	356782-22	356782-23
Your Reference	UNITS	TP205	TP205	TP207	TP207	TP207
Depth		0-0.2	0.8-1	0-0.2	1-1.2	2-2.2
Date Sampled		12/07/2024	12/07/2024	16/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	22/07/2024	19/07/2024	22/07/2024	22/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	107	81	107	85	85

PAHs in Soil						
Our Reference		356782-32	356782-33	356782-35	356782-37	356782-39
Your Reference	UNITS	TP209	TP210	TP210	TP210	TP211
Depth		2.5-2.7	0-0.2	1-1.2	2.7-2.9	0-0.2
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	19/07/2024	22/07/2024	22/07/2024	19/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	83	98	91	88	99

PAHs in Soil						
Our Reference		356782-44	356782-45	356782-48	356782-49	356782-51
Your Reference	UNITS	TP211	TP212	TP212	TP212	TP213
Depth		1.8-2	0-0.2	2-2.2	2.4-2.6	0-0.2
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	19/07/2024	22/07/2024	22/07/2024	19/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	89	104	84	88	106

PAHs in Soil						
Our Reference		356782-53	356782-57	356782-59	356782-67	356782-70
Your Reference	UNITS	TP213	TP214	TP214	TP216	TP216
Depth		0.6-0.8	0-0.2	0.9-1.1	0-0.2	1.3-1.5
Date Sampled		12/07/2024	12/07/2024	12/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	19/07/2024	22/07/2024	19/07/2024	22/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	88	104	90	104	89

PAHs in Soil						
Our Reference		356782-72	356782-82	356782-83	356782-86	356782-93
Your Reference	UNITS	TP216	TP218	TP218	TP218	TP220
Depth		2.4-2.6	0-0.2	0.5-0.7	1.6-1.8	0-0.2
Date Sampled		11/07/2024	12/07/2024	12/07/2024	12/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	22/07/2024	22/07/2024	19/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	103	102	86	87	101

PAHs in Soil						
Our Reference		356782-94	356782-96	356782-98	356782-101	356782-104
Your Reference	UNITS	TP220	TP221	TP221	TP222	TP222
Depth		0.4-0.6	0-0.2	1.25-1.35	0-0.2	1.8-1.9
Date Sampled		11/07/2024	12/07/2024	12/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	19/07/2024	22/07/2024	19/07/2024	22/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	96	101	88	103	81

PAHs in Soil						
Our Reference		356782-105	356782-107	356782-109	356782-125	356782-126
Your Reference	UNITS	TP222	TP223	TP223	TP226	TP226
Depth		2.3-2.5	0-0.2	0.8-1	0-0.2	0.5-0.7
Date Sampled		16/07/2024	11/07/2024	11/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	22/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	102	101	88	98	91

PAHs in Soil						
Our Reference		356782-128	356782-130	356782-133	356782-134	356782-145
Your Reference	UNITS	TP227	TP227	TP227	SS1	BD5/20240712
Depth		0-0.2	1-1.2	2.4-2.6	0-0.2	-
Date Sampled		11/07/2024	11/07/2024	11/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	101	86	88	90	85

PAHs in Soil		
Our Reference		356782-146
Your Reference	UNITS	BD6/20240712
Depth		-
Date Sampled		12/07/2024
Type of sample		Soil
Date extracted	-	19/07/2024
Date analysed	-	22/07/2024
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d14	%	92

Organochlorine Pesticides in soil						
Our Reference		356782-1	356782-4	356782-7	356782-13	356782-20
Your Reference	UNITS	TP201	TP202	TP203	TP205	TP207
Depth		0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
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
Surrogate 4-Chloro-3-NBTF	%	100	103	106	102	102

Organochlorine Pesticides in soil						
Our Reference		356782-33	356782-39	356782-45	356782-51	356782-57
Your Reference	UNITS	TP210	TP211	TP212	TP213	TP214
Depth		0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		16/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
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
Surrogate 4-Chloro-3-NBTF	%	97	97	100	98	98

Organochlorine Pesticides in soil						
Our Reference		356782-67	356782-72	356782-82	356782-93	356782-96
Your Reference	UNITS	TP216	TP216	TP218	TP220	TP221
Depth		0-0.2	2.4-2.6	0-0.2	0-0.2	0-0.2
Date Sampled		11/07/2024	11/07/2024	12/07/2024	11/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
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
Surrogate 4-Chloro-3-NBTF	%	99	97	98	97	96

Organochlorine Pesticides in soil					
Our Reference		356782-101	356782-107	356782-125	356782-128
Your Reference	UNITS	TP222	TP223	TP226	TP227
Depth		0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		16/07/2024	11/07/2024	16/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	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
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-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
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	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 +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	97	96	93	96

Organophosphorus Pesticides in Soil						
Our Reference		356782-1	356782-4	356782-7	356782-13	356782-20
Your Reference	UNITS	TP201	TP202	TP203	TP205	TP207
Depth		0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	100	103	106	102	102

Organophosphorus Pesticides in Soil						
Our Reference		356782-33	356782-39	356782-45	356782-51	356782-57
Your Reference	UNITS	TP210	TP211	TP212	TP213	TP214
Depth		0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		16/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	97	97	100	98	98

Organophosphorus Pesticides in Soil						
Our Reference		356782-67	356782-72	356782-82	356782-93	356782-96
Your Reference	UNITS	TP216	TP216	TP218	TP220	TP221
Depth		0-0.2	2.4-2.6	0-0.2	0-0.2	0-0.2
Date Sampled		11/07/2024	11/07/2024	12/07/2024	11/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	99	97	98	97	96

Organophosphorus Pesticides in Soil					
Our Reference		356782-101	356782-107	356782-125	356782-128
Your Reference	UNITS	TP222	TP223	TP226	TP227
Depth		0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		16/07/2024	11/07/2024	16/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	97	96	93	96

PCBs in Soil						
Our Reference		356782-1	356782-4	356782-7	356782-13	356782-20
Your Reference	UNITS	TP201	TP202	TP203	TP205	TP207
Depth		0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	100	98	105	101	98

PCBs in Soil						
Our Reference		356782-33	356782-39	356782-45	356782-51	356782-57
Your Reference	UNITS	TP210	TP211	TP212	TP213	TP214
Depth		0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		16/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	92	95	100	99	99

PCBs in Soil						
Our Reference		356782-67	356782-72	356782-82	356782-93	356782-96
Your Reference	UNITS	TP216	TP216	TP218	TP220	TP221
Depth		0-0.2	2.4-2.6	0-0.2	0-0.2	0-0.2
Date Sampled		11/07/2024	11/07/2024	12/07/2024	11/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	99	98	97	97	97

PCBs in Soil					
Our Reference		356782-101	356782-107	356782-125	356782-128
Your Reference	UNITS	TP222	TP223	TP226	TP227
Depth		0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		16/07/2024	11/07/2024	16/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	97	97	94	96

Misc Soil - Inorg						
Our Reference		356782-1	356782-4	356782-7	356782-13	356782-20
Your Reference	UNITS	TP201	TP202	TP203	TP205	TP207
Depth		0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		356782-33	356782-39	356782-45	356782-51	356782-57
Your Reference	UNITS	TP210	TP211	TP212	TP213	TP214
Depth		0-0.2	0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		16/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		356782-67	356782-72	356782-82	356782-93	356782-96
Your Reference	UNITS	TP216	TP216	TP218	TP220	TP221
Depth		0-0.2	2.4-2.6	0-0.2	0-0.2	0-0.2
Date Sampled		11/07/2024	11/07/2024	12/07/2024	11/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg					
Our Reference		356782-101	356782-107	356782-125	356782-128
Your Reference	UNITS	TP222	TP223	TP226	TP227
Depth		0-0.2	0-0.2	0-0.2	0-0.2
Date Sampled		16/07/2024	11/07/2024	16/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5

Acid Extractable metals in soil						
Our Reference		356782-1	356782-3	356782-4	356782-7	356782-9
Your Reference	UNITS	TP201	TP201	TP202	TP203	TP203
Depth		0-0.2	0.8-1	0-0.2	0-0.2	0.9-1.1
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	6	8	8	6	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	18	10	17	15	3
Copper	mg/kg	8	15	8	15	9
Lead	mg/kg	15	12	16	12	7
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	<1	6	6	<1
Zinc	mg/kg	8	7	14	19	6

Acid Extractable metals in soil						
Our Reference		356782-13	356782-15	356782-20	356782-22	356782-23
Your Reference	UNITS	TP205	TP205	TP207	TP207	TP207
Depth		0-0.2	0.8-1	0-0.2	1-1.2	2-2.2
Date Sampled		12/07/2024	12/07/2024	16/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	4	<4	11	6	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	13	3	22	17	10
Copper	mg/kg	38	21	10	13	5
Lead	mg/kg	18	10	18	21	13
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	12	3	9	6	3
Zinc	mg/kg	59	26	25	30	9

Acid Extractable metals in soil						
Our Reference		356782-32	356782-33	356782-35	356782-37	356782-39
Your Reference	UNITS	TP209	TP210	TP210	TP210	TP211
Depth		2.5-2.7	0-0.2	1-1.2	2.7-2.9	0-0.2
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	12	7	6	11	9
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	17	18	15	27	9
Copper	mg/kg	17	9	7	6	10
Lead	mg/kg	16	19	17	17	13
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	4	5	6	2
Zinc	mg/kg	39	21	16	15	9

Acid Extractable metals in soil						
Our Reference		356782-44	356782-45	356782-48	356782-49	356782-51
Your Reference	UNITS	TP211	TP212	TP212	TP212	TP213
Depth		1.8-2	0-0.2	2-2.2	2.4-2.6	0-0.2
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	12	4	11	5	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	5	28	14	8
Copper	mg/kg	17	7	11	13	17
Lead	mg/kg	12	7	13	15	11
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	12	1	2	6	4
Zinc	mg/kg	45	5	9	20	18

Acid Extractable metals in soil						
Our Reference		356782-53	356782-57	356782-59	356782-67	356782-70
Your Reference	UNITS	TP213	TP214	TP214	TP216	TP216
Depth		0.6-0.8	0-0.2	0.9-1.1	0-0.2	1.3-1.5
Date Sampled		12/07/2024	12/07/2024	12/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	12	5	11	7	9
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	5	7	16	7	5
Copper	mg/kg	10	13	26	8	9
Lead	mg/kg	14	12	19	11	9
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	<1	1	39	2	1
Zinc	mg/kg	4	8	110	10	4

Acid Extractable metals in soil						
Our Reference		356782-72	356782-82	356782-83	356782-86	356782-93
Your Reference	UNITS	TP216	TP218	TP218	TP218	TP220
Depth		2.4-2.6	0-0.2	0.5-0.7	1.6-1.8	0-0.2
Date Sampled		11/07/2024	12/07/2024	12/07/2024	12/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	6	4	7	<4	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	17	8	11	13	6
Copper	mg/kg	8	8	11	34	5
Lead	mg/kg	19	8	10	14	6
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	3	4	15	<1
Zinc	mg/kg	8	10	13	58	3

Acid Extractable metals in soil						
Our Reference		356782-94	356782-96	356782-98	356782-101	356782-104
Your Reference	UNITS	TP220	TP221	TP221	TP222	TP222
Depth		0.4-0.6	0-0.2	1.25-1.35	0-0.2	1.8-1.9
Date Sampled		11/07/2024	12/07/2024	12/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	7	9	12	21	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	16	26	10	3
Copper	mg/kg	16	13	10	16	4
Lead	mg/kg	14	14	23	13	7
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	4	6	4	<1
Zinc	mg/kg	25	15	16	19	4

Acid Extractable metals in soil						
Our Reference		356782-105	356782-107	356782-109	356782-125	356782-126
Your Reference	UNITS	TP222	TP223	TP223	TP226	TP226
Depth		2.3-2.5	0-0.2	0.8-1	0-0.2	0.5-0.7
Date Sampled		16/07/2024	11/07/2024	11/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	5	8	11	6	9
Cadmium	mg/kg	<0.4	<0.4	<0.5	<0.4	<0.4
Chromium	mg/kg	13	16	17	8	20
Copper	mg/kg	15	11	26	6	10
Lead	mg/kg	9	12	26	10	15
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	3	20	2	8
Zinc	mg/kg	16	12	54	7	23

Acid Extractable metals in soil						
Our Reference		356782-128	356782-130	356782-133	356782-134	356782-145
Your Reference	UNITS	TP227	TP227	TP227	SS1	BD5/20240712
Depth		0-0.2	1-1.2	2.4-2.6	0-0.2	-
Date Sampled		11/07/2024	11/07/2024	11/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	8	7	6	9	8
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	25	15	14	22	10
Copper	mg/kg	5	14	19	7	15
Lead	mg/kg	15	13	10	17	15
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	5	8	6	2
Zinc	mg/kg	11	17	20	23	9

Acid Extractable metals in soil					
Our Reference		356782-146	356782-151	356782-152	356782-153
Your Reference	UNITS	BD6/20240712	TP201 - [TRIPLICATE]	TP216 - [TRIPLICATE]	TP226 - [TRIPLICATE]
Depth		-	0-0.2	0-0.2	0-0.2
Date Sampled		12/07/2024	12/07/2024	11/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	<4	7	5	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	13	20	4	10
Copper	mg/kg	22	7	7	13
Lead	mg/kg	19	21	7	11
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	11	5	2	4
Zinc	mg/kg	45	9	6	22

Moisture						
Our Reference		356782-1	356782-3	356782-4	356782-7	356782-9
Your Reference	UNITS	TP201	TP201	TP202	TP203	TP203
Depth		0-0.2	0.8-1	0-0.2	0-0.2	0.9-1.1
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	15	18	15	15	22

Moisture						
Our Reference		356782-13	356782-15	356782-20	356782-22	356782-23
Your Reference	UNITS	TP205	TP205	TP207	TP207	TP207
Depth		0-0.2	0.8-1	0-0.2	1-1.2	2-2.2
Date Sampled		12/07/2024	12/07/2024	16/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	18	20	22	19	14

Moisture						
Our Reference		356782-32	356782-33	356782-35	356782-37	356782-39
Your Reference	UNITS	TP209	TP210	TP210	TP210	TP211
Depth		2.5-2.7	0-0.2	1-1.2	2.7-2.9	0-0.2
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	23	11	15	15	16

Moisture						
Our Reference		356782-44	356782-45	356782-48	356782-49	356782-51
Your Reference	UNITS	TP211	TP212	TP212	TP212	TP213
Depth		1.8-2	0-0.2	2-2.2	2.4-2.6	0-0.2
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	14	14	17	15	21

Moisture						
Our Reference		356782-53	356782-57	356782-59	356782-67	356782-70
Your Reference	UNITS	TP213	TP214	TP214	TP216	TP216
Depth		0.6-0.8	0-0.2	0.9-1.1	0-0.2	1.3-1.5
Date Sampled		12/07/2024	12/07/2024	12/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	15	19	16	21	16

Moisture						
Our Reference		356782-72	356782-82	356782-83	356782-86	356782-93
Your Reference	UNITS	TP216	TP218	TP218	TP218	TP220
Depth		2.4-2.6	0-0.2	0.5-0.7	1.6-1.8	0-0.2
Date Sampled		11/07/2024	12/07/2024	12/07/2024	12/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	11	15	14	20	18

Moisture						
Our Reference		356782-94	356782-96	356782-98	356782-101	356782-104
Your Reference	UNITS	TP220	TP221	TP221	TP222	TP222
Depth		0.4-0.6	0-0.2	1.25-1.35	0-0.2	1.8-1.9
Date Sampled		11/07/2024	12/07/2024	12/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	14	16	15	11	13

Moisture						
Our Reference		356782-105	356782-107	356782-109	356782-125	356782-126
Your Reference	UNITS	TP222	TP223	TP223	TP226	TP226
Depth		2.3-2.5	0-0.2	0.8-1	0-0.2	0.5-0.7
Date Sampled		16/07/2024	11/07/2024	11/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	13	21	59	17	17

Moisture						
Our Reference		356782-128	356782-130	356782-133	356782-134	356782-145
Your Reference	UNITS	TP227	TP227	TP227	SS1	BD5/20240712
Depth		0-0.2	1-1.2	2.4-2.6	0-0.2	-
Date Sampled		11/07/2024	11/07/2024	11/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	12	16	16	7.7	38

Moisture		
Our Reference		356782-146
Your Reference	UNITS	BD6/20240712
Depth		-
Date Sampled		12/07/2024
Type of sample		Soil
Date prepared	-	19/07/2024
Date analysed	-	22/07/2024
Moisture	%	22

PFAS in Soils Short						
Our Reference		356782-7	356782-9	356782-20	356782-23	356782-39
Your Reference	UNITS	TP203	TP203	TP207	TP207	TP211
Depth		0-0.2	0.9-1.1	0-0.2	2-2.2	0-0.2
Date Sampled		12/07/2024	12/07/2024	16/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<5	<5	<5	<5	<5
Perfluorooctanesulfonic acid PFOS	µg/kg	<5	<5	<5	<5	<5
Perfluorooctanoic acid PFOA	µg/kg	<5	<5	<5	<5	<5
6:2 FTS	µg/kg	<5	<5	<5	<5	<5
8:2 FTS	µg/kg	<5	<5	<5	<5	<5
Surrogate $^{13}C_8$ *PFOS*	%	105	112	107	114	115
Surrogate $^{13}C_2$ *PFOA*	%	103	100	102	107	100
Extracted ISTD $^{18}O_2$ *PFHxS*	%	97	87	104	105	105
Extracted ISTD $^{13}C_4$ *PFOS*	%	88	84	90	90	89
Extracted ISTD $^{13}C_4$ *PFOA*	%	96	96	103	102	103
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	92	93	126	104	101
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	102	103	98	102	114
Total Positive PFHxS & PFOS	µg/kg	<5	<5	<5	<5	<5
Total Positive PFOS & PFOA	µg/kg	<5	<5	<5	<5	<5
Total Positive PFHxS & PFOS & PFOA	µg/kg	<5	<5	<5	<5	<5
Total Positive PFAS	µg/kg	<5	<5	<5	<5	<5

PFAS in Soils Short						
Our Reference		356782-44	356782-82	356782-93	356782-104	356782-128
Your Reference	UNITS	TP211	TP218	TP220	TP222	TP227
Depth		1.8-2	0-0.2	0-0.2	1.8-1.9	0-0.2
Date Sampled		12/07/2024	12/07/2024	11/07/2024	16/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<5	<5	<5	<5	<5
Perfluorooctanesulfonic acid PFOS	µg/kg	<5	<5	<5	<5	<5
Perfluorooctanoic acid PFOA	µg/kg	<5	<5	<5	<5	<5
6:2 FTS	µg/kg	<5	<5	<5	<5	<5
8:2 FTS	µg/kg	<5	<5	<5	<5	<5
Surrogate $^{13}C_8$ *PFOS*	%	106	113	110	108	104
Surrogate $^{13}C_2$ *PFOA*	%	105	105	100	100	104
Extracted ISTD $^{18}O_2$ *PFHxS*	%	99	92	91	97	98
Extracted ISTD $^{13}C_4$ *PFOS*	%	91	83	81	94	97
Extracted ISTD $^{13}C_4$ *PFOA*	%	97	95	94	98	105
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	98	97	94	97	134
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	106	107	99	104	133
Total Positive PFHxS & PFOS	µg/kg	<5	<5	<5	<5	<5
Total Positive PFOS & PFOA	µg/kg	<5	<5	<5	<5	<5
Total Positive PFHxS & PFOS & PFOA	µg/kg	<5	<5	<5	<5	<5
Total Positive PFAS	µg/kg	<5	<5	<5	<5	<5

PFAS in Soils Short			
Our Reference		356782-130	356782-133
Your Reference	UNITS	TP227	TP227
Depth		1-1.2	2.4-2.6
Date Sampled		11/07/2024	11/07/2024
Type of sample		Soil	Soil
Date prepared	-	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<5	<5
Perfluorooctanesulfonic acid PFOS	µg/kg	<5	<5
Perfluorooctanoic acid PFOA	µg/kg	<5	<5
6:2 FTS	µg/kg	<5	<5
8:2 FTS	µg/kg	<5	<5
Surrogate $^{13}C_8$ *PFOS*	%	111	108
Surrogate $^{13}C_2$ *PFOA*	%	96	99
Extracted ISTD $^{18}O_2$ *PFHxS*	%	99	92
Extracted ISTD $^{13}C_4$ *PFOS*	%	92	85
Extracted ISTD $^{13}C_4$ *PFOA*	%	105	93
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	107	95
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	115	103
Total Positive PFHxS & PFOS	µg/kg	<5	<5
Total Positive PFOS & PFOA	µg/kg	<5	<5
Total Positive PFHxS & PFOS & PFOA	µg/kg	<5	<5
Total Positive PFAS	µg/kg	<5	<5

Misc Inorg - Soil						
Our Reference		356782-1	356782-3	356782-4	356782-7	356782-9
Your Reference	UNITS	TP201	TP201	TP202	TP203	TP203
Depth		0-0.2	0.8-1	0-0.2	0-0.2	0.9-1.1
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/07/2024	17/07/2024	17/07/2024	17/07/2024	17/07/2024
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
pH 1:5 soil:water	pH Units	6.1	5.1	5.5	5.7	4.7
Electrical Conductivity 1:5 soil:water	µS/cm	61	370	310	420	1,300

Misc Inorg - Soil						
Our Reference		356782-13	356782-15	356782-20	356782-22	356782-23
Your Reference	UNITS	TP205	TP205	TP207	TP207	TP207
Depth		0-0.2	0.8-1	0-0.2	1-1.2	2-2.2
Date Sampled		12/07/2024	12/07/2024	16/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/07/2024	17/07/2024	17/07/2024	17/07/2024	17/07/2024
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
pH 1:5 soil:water	pH Units	6.9	5.6	6.1	6.8	6.5
Electrical Conductivity 1:5 soil:water	µS/cm	450	530	95	230	86

Misc Inorg - Soil						
Our Reference		356782-32	356782-33	356782-35	356782-37	356782-39
Your Reference	UNITS	TP209	TP210	TP210	TP210	TP211
Depth		2.5-2.7	0-0.2	1-1.2	2.7-2.9	0-0.2
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/07/2024	17/07/2024	17/07/2024	17/07/2024	17/07/2024
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
pH 1:5 soil:water	pH Units	6.6	6.1	6.2	5.8	7.1
Electrical Conductivity 1:5 soil:water	µS/cm	580	120	120	160	190

Misc Inorg - Soil						
Our Reference		356782-44	356782-45	356782-48	356782-49	356782-51
Your Reference	UNITS	TP211	TP212	TP212	TP212	TP213
Depth		1.8-2	0-0.2	2-2.2	2.4-2.6	0-0.2
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/07/2024	17/07/2024	17/07/2024	17/07/2024	17/07/2024
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
pH 1:5 soil:water	pH Units	5.6	7.4	5.6	6.1	6.3
Electrical Conductivity 1:5 soil:water	µS/cm	84	390	460	150	600

Misc Inorg - Soil						
Our Reference		356782-53	356782-57	356782-67	356782-70	356782-72
Your Reference	UNITS	TP213	TP214	TP216	TP216	TP216
Depth		0.6-0.8	0-0.2	0-0.2	1.3-1.5	2.4-2.6
Date Sampled		12/07/2024	12/07/2024	11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/07/2024	17/07/2024	17/07/2024	17/07/2024	17/07/2024
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
pH 1:5 soil:water	pH Units	5.5	5.9	7.2	6.2	6.2
Electrical Conductivity 1:5 soil:water	µS/cm	410	160	390	380	75

Misc Inorg - Soil						
Our Reference		356782-82	356782-86	356782-93	356782-94	356782-96
Your Reference	UNITS	TP218	TP218	TP220	TP220	TP221
Depth		0-0.2	1.6-1.8	0-0.2	0.4-0.6	0-0.2
Date Sampled		12/07/2024	12/07/2024	11/07/2024	11/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/07/2024	17/07/2024	17/07/2024	17/07/2024	17/07/2024
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
pH 1:5 soil:water	pH Units	6.1	5.2	6.1	6.7	5.6
Electrical Conductivity 1:5 soil:water	µS/cm	470	730	650	480	290

Misc Inorg - Soil						
Our Reference		356782-101	356782-104	356782-105	356782-107	356782-109
Your Reference	UNITS	TP222	TP222	TP222	TP223	TP223
Depth		0-0.2	1.8-1.9	2.3-2.5	0-0.2	0.8-1
Date Sampled		16/07/2024	16/07/2024	16/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	17/07/2024	17/07/2024	17/07/2024	17/07/2024	17/07/2024
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
pH 1:5 soil:water	pH Units	5.8	5.0	6.1	7.1	4.8
Electrical Conductivity 1:5 soil:water	µS/cm	180	470	130	660	500

Misc Inorg - Soil					
Our Reference		356782-125	356782-128	356782-130	356782-133
Your Reference	UNITS	TP226	TP227	TP227	TP227
Depth		0-0.2	0-0.2	1-1.2	2.4-2.6
Date Sampled		16/07/2024	11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	17/07/2024	17/07/2024	17/07/2024	17/07/2024
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024
pH 1:5 soil:water	pH Units	8.0	5.6	7.3	6.4
Electrical Conductivity 1:5 soil:water	µS/cm	750	360	630	160

CEC					
Our Reference		356782-15	356782-57	356782-96	356782-125
Your Reference	UNITS	TP205	TP214	TP221	TP226
Depth		0.8-1	0-0.2	0-0.2	0-0.2
Date Sampled		12/07/2024	12/07/2024	12/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Exchangeable Ca	meq/100g	<0.1	2.3	1.0	16
Exchangeable K	meq/100g	<0.1	0.3	0.2	0.2
Exchangeable Mg	meq/100g	5.5	8.3	7.1	5.8
Exchangeable Na	meq/100g	1.5	1.8	2.7	1
Cation Exchange Capacity	meq/100g	7.2	13	11	23

Asbestos ID - soils NEPM						
Our Reference		356782-1	356782-4	356782-7	356782-10	356782-13
Your Reference	UNITS	TP201	TP202	TP203	TP204	TP205
Depth		0-0.2	0-0.2	0-0.2	0-0.05	0-0.2
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	658.29	638.18	552.13	700.33	687.77
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-16	356782-17	356782-20	356782-21	356782-24
Your Reference	UNITS	TP206	TP206	TP207	TP207	TP208
Depth		0-0.2	0.5-0.7	0-0.2	0.5-0.7	0-0.2
Date Sampled		12/07/2024	12/07/2024	16/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	692.07	767.22	573.6	618.63	586.15
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-25	356782-27	356782-28	356782-30	356782-31
Your Reference	UNITS	TP208	TP208	TP208	TP209	TP209
Depth		0.5-0.7	1.9-2.1	2.8-3	0.5-0.7	1.5-1.7
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	618.82	659.07	739.33	586.68	534.22
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-32	356782-33	356782-34	356782-36	356782-39
Your Reference	UNITS	TP209	TP210	TP210	TP210	TP211
Depth		2.5-2.7	0-0.2	0.5-0.7	1.7-1.9	0-0.2
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	475.61	590.43	566.73	639.28	622.23
Sample Description	-	Grey coarse-grained soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-40	356782-41	356782-42	356782-45	356782-46
Your Reference	UNITS	TP211	TP211	TP211	TP212	TP212
Depth		0.5-0.7	0.9-1.1	1.2-1.35	0-0.2	0.5-0.7
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	544.55	640.17	665.28	809.21	574.3
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-47	356782-48	356782-51	356782-52	356782-53
Your Reference	UNITS	TP212	TP212	TP213	TP213	TP213
Depth		1-1.2	2-2.2	0-0.2	0.3-0.5	0.6-0.8
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	695.73	602.58	544.47	594.33	498.84
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-54	356782-57	356782-58	356782-59	356782-60
Your Reference	UNITS	TP213	TP214	TP214	TP214	TP214
Depth		0.8-0.9	0-0.2	0.4-0.6	0.9-1.1	1.9-2.1
Date Sampled		12/07/2024	12/07/2024	12/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	459.99	708.89	604.82	676.34	847.7
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-63	356782-64	356782-67	356782-68	356782-69
Your Reference	UNITS	TP215	TP215	TP216	TP216	TP216
Depth		0-0.2	0.5-0.7	0-0.2	0.5-0.7	0.8-1
Date Sampled		12/07/2024	12/07/2024	11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	751.25	595.02	629.23	629.05	855.19
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-70	356782-71	356782-72	356782-75	356782-76
Your Reference	UNITS	TP216	TP216	TP216	TP217	TP217
Depth		1.3-1.5	1.8-2	2.4-2.6	0-0.2	0.4-0.6
Date Sampled		11/07/2024	11/07/2024	11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	718.24	784.84	706.02	885.55	632.61
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-77	356782-78	356782-79	356782-82	356782-84
Your Reference	UNITS	TP217	TP217	TP217	TP218	TP218
Depth		0.9-1.1	1.7-1.9	2.15-2.35	0-0.2	1-1.2
Date Sampled		11/07/2024	11/07/2024	11/07/2024	12/07/2024	12/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	753.98	679.42	630.54	713.9	668.15
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-87	356782-88	356782-89	356782-90	356782-93
Your Reference	UNITS	TP219	TP219	TP219	TP219	TP220
Depth		0-0.2	0.5-0.7	0.9-1.1	1.6-1.8	0-0.2
Date Sampled		11/07/2024	11/07/2024	11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	685.65	787.72	673.89	754.64	677.34
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-96	356782-97	356782-98	356782-101	356782-102
Your Reference	UNITS	TP221	TP221	TP221	TP222	TP222
Depth		0-0.2	0.5-0.7	1.25-1.35	0-0.2	0.3-0.5
Date Sampled		12/07/2024	12/07/2024	12/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	716.27	600.3	684.59	589.59	657.43
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-103	356782-104	356782-107	356782-108	356782-109
Your Reference	UNITS	TP222	TP222	TP223	TP223	TP223
Depth		0.8-1	1.8-1.9	0-0.2	0.3-0.5	0.8-1
Date Sampled		16/07/2024	16/07/2024	11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	672.32	736.47	616.3	392.06	777.67
Sample Description	-	Brown clayey soil & rocks	Grey coarse-grained soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-110	356782-112	356782-118	356782-119	356782-121
Your Reference	UNITS	TP223	TP223	TP225	TP225	TP225
Depth		1.8-2	3.1-3.3	0-0.2	0.5-0.7	1-1.2
Date Sampled		11/07/2024	11/07/2024	11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	656.6	770.31	714.01	630.77	869.91
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-123	356782-125	356782-126	356782-127	356782-128
Your Reference	UNITS	TP225	TP226	TP226	TP226	TP227
Depth		2.2-2.4	0-0.2	0.5-0.7	1-1.2	0-0.2
Date Sampled		11/07/2024	16/07/2024	16/07/2024	16/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	723.53	624.6	587.96	534.83	924.48
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-129	356782-130	356782-131	356782-134	356782-135
Your Reference	UNITS	TP227	TP227	TP227	SS1	SS2
Depth		0.5-0.7	1-1.2	1.8-2	0-0.2	0-0.2
Date Sampled		11/07/2024	11/07/2024	11/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Sample mass tested	g	763.77	655.61	770.89	711.37	697.43
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Grey coarse-grained soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

vTRH(C6-C10)/BTEXN in Water		
Our Reference		356782-149
Your Reference	UNITS	RINS-120724
Depth		-
Date Sampled		12/07/2024
Type of sample		Water
Date extracted	-	19/07/2024
Date analysed	-	22/07/2024
TRH C_6 - C_9	µg/L	<10
TRH C_6 - C_{10}	µg/L	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	94
Surrogate Toluene-d8	%	97
Surrogate 4-Bromofluorobenzene	%	95

svTRH (C10-C40) in Water		
Our Reference		356782-149
Your Reference	UNITS	RINS-120724
Depth		-
Date Sampled		12/07/2024
Type of sample		Water
Date extracted	-	19/07/2024
Date analysed	-	19/07/2024
TRH C_{10} - C_{14}	µg/L	<50
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	<50
TRH >C_{10} - C_{16}	µg/L	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	<50
Surrogate o-Terphenyl	%	74

PAHs in Water		
Our Reference		356782-149
Your Reference	UNITS	RINS-120724
Depth		-
Date Sampled		12/07/2024
Type of sample		Water
Date extracted	-	19/07/2024
Date analysed	-	19/07/2024
Naphthalene	µg/L	<0.1
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	<0.1
Surrogate p-Terphenyl-d14	%	89

Metals in Waters - Acid extractable		
Our Reference		356782-149
Your Reference	UNITS	RINS-120724
Depth		-
Date Sampled		12/07/2024
Type of sample		Water
Date prepared	-	19/07/2024
Date analysed	-	19/07/2024
Arsenic - Total	mg/L	<0.05
Cadmium - Total	mg/L	<0.01
Chromium - Total	mg/L	<0.01
Copper - Total	mg/L	<0.01
Lead - Total	mg/L	<0.03
Mercury - Total	mg/L	<0.0005
Nickel - Total	mg/L	<0.02
Zinc - Total	mg/L	<0.02

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. NOTE#1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF relative to the sample mass tested) NOTE#2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-020	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-OES analytical finish.
Metals-021	Determination of Mercury by Cold Vapour AAS.

Method ID	Methodology Summary
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.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.

Method ID	Methodology Summary
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
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-8	356782-4
Date extracted	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			22/07/2024	1	22/07/2024	22/07/2024		22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	86	109
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	86	109
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	85	108
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	78	103
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	88	112
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	89	111
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	86	108
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	75	1	84	84	0	73	90

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	356782-72
Date extracted	-			[NT]	33	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	33	22/07/2024	22/07/2024		22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	33	<25	<25	0	100	106
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	33	<25	<25	0	100	106
Benzene	mg/kg	0.2	Org-023	[NT]	33	<0.2	<0.2	0	101	105
Toluene	mg/kg	0.5	Org-023	[NT]	33	<0.5	<0.5	0	92	98
Ethylbenzene	mg/kg	1	Org-023	[NT]	33	<1	<1	0	102	111
m+p-xylene	mg/kg	2	Org-023	[NT]	33	<2	<2	0	103	109
o-Xylene	mg/kg	1	Org-023	[NT]	33	<1	<1	0	99	106
Naphthalene	mg/kg	1	Org-023	[NT]	33	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	33	64	65	2	87	91

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	356782-128
Date extracted	-			[NT]	67	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	67	22/07/2024	22/07/2024		22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	67	<25	<25	0	102	117
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	67	<25	<25	0	102	117
Benzene	mg/kg	0.2	Org-023	[NT]	67	<0.2	<0.2	0	103	103
Toluene	mg/kg	0.5	Org-023	[NT]	67	<0.5	<0.5	0	94	97
Ethylbenzene	mg/kg	1	Org-023	[NT]	67	<1	<1	0	105	105
m+p-xylene	mg/kg	2	Org-023	[NT]	67	<2	<2	0	105	139
o-Xylene	mg/kg	1	Org-023	[NT]	67	<1	<1	0	101	100
Naphthalene	mg/kg	1	Org-023	[NT]	67	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	67	83	84	1	89	89

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	101	22/07/2024	22/07/2024		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	101	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	101	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	101	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	101	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	101	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	101	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	101	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	101	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	101	86	85	1	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	125	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	125	22/07/2024	22/07/2024		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	125	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	125	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	125	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	125	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	125	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	125	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	125	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	125	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	125	84	83	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	356782-4
Date extracted	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			21/07/2024	1	21/07/2024	21/07/2024		21/07/2024	21/07/2024
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	117	136
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	<100	<100	0	111	124
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	<100	<100	0	114	130
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	117	136
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	<100	<100	0	111	124
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	<100	<100	0	114	130
Surrogate o-Terphenyl	%		Org-020	81	1	88	89	1	95	90

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	356782-72
Date extracted	-			[NT]	33	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	33	21/07/2024	21/07/2024		21/07/2024	21/07/2024
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	33	<50	<50	0	118	84
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	33	<100	<100	0	115	85
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	33	<100	<100	0	129	72
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	33	<50	<50	0	118	84
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	33	<100	<100	0	115	85
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	33	<100	<100	0	129	72
Surrogate o-Terphenyl	%		Org-020	[NT]	33	82	82	0	97	79

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	356782-128
Date extracted	-			[NT]	67	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	67	21/07/2024	21/07/2024		21/07/2024	21/07/2024
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	67	<50	<50	0	88	90
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	67	<100	<100	0	86	89
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	67	<100	<100	0	100	116
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	67	<50	<50	0	88	90
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	67	<100	<100	0	86	89
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	67	<100	<100	0	100	116
Surrogate o-Terphenyl	%		Org-020	[NT]	67	77	76	1	89	77

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	101	21/07/2024	21/07/2024		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	101	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	101	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	101	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	101	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	101	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	101	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	101	81	79	2	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	125	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	125	21/07/2024	21/07/2024		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	125	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	125	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	125	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	125	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	125	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	125	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	125	80	77	4	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	356782-4
Date extracted	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	86	96
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	90	102
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	84	96
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	104
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	116
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	108
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	76	84
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	82	92
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	98	1	102	105	3	99	108

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	356782-72
Date extracted	-			[NT]	33	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	33	19/07/2024	19/07/2024		22/07/2024	19/07/2024
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	78	84
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	78	90
Fluorene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	76	84
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	88	92
Anthracene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	78	104
Pyrene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	80	98
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	70	74
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	33	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	33	<0.05	<0.05	0	70	82
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	33	98	98	0	86	101

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	356782-128
Date extracted	-			[NT]	67	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	67	19/07/2024	19/07/2024		22/07/2024	19/07/2024
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	86	86
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	94	92
Fluorene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	86	86
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	94	94
Anthracene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	104	70
Pyrene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	98	100
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	74	78
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	67	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	67	<0.05	<0.05	0	84	82
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	67	104	105	1	100	101

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	101	19/07/2024	19/07/2024		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	101	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	101	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	101	103	100	3	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	125	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	125	19/07/2024	19/07/2024		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	125	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	125	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	125	98	99	1	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	356782-4
Date extracted	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	90	104
HCB	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	104
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	98	112
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	112
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	118
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	90	104
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	106	120
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	118
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	120
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	116
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	101	1	100	100	0	99	107

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	356782-72
Date extracted	-			[NT]	33	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	33	19/07/2024	19/07/2024		22/07/2024	19/07/2024
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	82	92
HCB	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	80	92
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	72	96
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	92	98
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	90	104
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	78	92
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	88	108
Endrin	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	80	106
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	88	106
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	76	92
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	33	97	99	2	85	100

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	356782-128
Date extracted	-			[NT]	67	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	67	19/07/2024	19/07/2024		22/07/2024	19/07/2024
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	92	92
HCB	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	96	92
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	100	102
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	100	100
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	104	104
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	92	94
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	110	112
Endrin	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	108	114
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	106	108
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	92	98
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	67	99	99	0	100	97

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	101	19/07/2024	19/07/2024		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	101	97	95	2	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	125	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	125	19/07/2024	19/07/2024		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	125	93	95	2	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	356782-4
Date extracted	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	98	106
Mevinphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	86	98
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	108
Malathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	108
Chlorpyriphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	90	104
Fenthion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	84	98
Bromophos-ethyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	98	118
Phosalone	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	101	1	100	100	0	99	107

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	356782-72
Date extracted	-			[NT]	33	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	33	19/07/2024	19/07/2024		22/07/2024	19/07/2024
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	76	86
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	72	86
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	68	90
Malathion	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	76	86
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	76	92
Fenthion	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	62	84
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	76	102
Phosalone	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	33	97	99	2	85	100

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	356782-128
Date extracted	-			[NT]	67	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	67	19/07/2024	19/07/2024		22/07/2024	19/07/2024
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	88	86
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	86	86
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	86	88
Malathion	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	86	90
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	92	92
Fenthion	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	82	84
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	98	102
Phosalone	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	67	99	99	0	100	97

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	101	19/07/2024	19/07/2024		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	101	97	95	2	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	125	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	125	19/07/2024	19/07/2024		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	125	93	95	2	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	356782-4
Date extracted	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Aroclor 1016	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	102	120
Aroclor 1260	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	98	1	100	96	4	93	101

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	356782-72
Date extracted	-			[NT]	33	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	33	19/07/2024	19/07/2024		22/07/2024	19/07/2024
Aroclor 1016	mg/kg	0.1	Org-021/022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	[NT]	33	<0.1	<0.1	0	93	100
Aroclor 1260	mg/kg	0.1	Org-021/022/025	[NT]	33	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	33	92	93	1	88	94

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	356782-128
Date extracted	-			[NT]	67	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	67	19/07/2024	19/07/2024		22/07/2024	19/07/2024
Aroclor 1016	mg/kg	0.1	Org-021/022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	[NT]	67	<0.1	<0.1	0	106	100
Aroclor 1260	mg/kg	0.1	Org-021/022/025	[NT]	67	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	67	99	97	2	94	93

QUALITY CONTROL: PCBs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	101	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	101	19/07/2024	19/07/2024		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021/022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021/022/025	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	101	97	96	1	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	125	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	125	19/07/2024	19/07/2024		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021/022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021/022/025	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	125	94	95	1	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	356782-4
Date prepared	-			23/07/2024	1	23/07/2024	23/07/2024		23/07/2024	23/07/2024
Date analysed	-			23/07/2024	1	23/07/2024	23/07/2024		23/07/2024	23/07/2024
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	1	<5	<5	0	94	98

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	356782-107
Date prepared	-			[NT]	51	23/07/2024	23/07/2024		23/07/2024	23/07/2024
Date analysed	-			[NT]	51	23/07/2024	23/07/2024		23/07/2024	23/07/2024
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	51	<5	<5	0	84	102

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	101	23/07/2024	23/07/2024		[NT]	[NT]
Date analysed	-			[NT]	101	23/07/2024	23/07/2024		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	101	<5	<5	0	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	356782-4
Date prepared	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			22/07/2024	1	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Arsenic	mg/kg	4	Metals-020	<4	1	6	9	40	105	88
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	95	83
Chromium	mg/kg	1	Metals-020	<1	1	18	29	47	97	84
Copper	mg/kg	1	Metals-020	<1	1	8	6	29	101	102
Lead	mg/kg	1	Metals-020	<1	1	15	18	18	96	86
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	86	95
Nickel	mg/kg	1	Metals-020	<1	1	5	5	0	99	88
Zinc	mg/kg	1	Metals-020	<1	1	8	9	12	98	84

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	356782-72
Date prepared	-			[NT]	33	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	33	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Arsenic	mg/kg	4	Metals-020	[NT]	33	7	11	44	105	85
Cadmium	mg/kg	0.4	Metals-020	[NT]	33	<0.4	<0.4	0	96	83
Chromium	mg/kg	1	Metals-020	[NT]	33	18	25	33	98	84
Copper	mg/kg	1	Metals-020	[NT]	33	9	8	12	103	98
Lead	mg/kg	1	Metals-020	[NT]	33	19	17	11	97	84
Mercury	mg/kg	0.1	Metals-021	[NT]	33	<0.1	<0.1	0	96	98
Nickel	mg/kg	1	Metals-020	[NT]	33	4	5	22	99	90
Zinc	mg/kg	1	Metals-020	[NT]	33	21	22	5	99	85

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-10	356782-128
Date prepared	-			[NT]	67	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	67	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Arsenic	mg/kg	4	Metals-020	[NT]	67	7	8	13	104	80
Cadmium	mg/kg	0.4	Metals-020	[NT]	67	<0.4	<0.4	0	92	77
Chromium	mg/kg	1	Metals-020	[NT]	67	7	4	55	95	80
Copper	mg/kg	1	Metals-020	[NT]	67	8	7	13	100	97
Lead	mg/kg	1	Metals-020	[NT]	67	11	9	20	94	85
Mercury	mg/kg	0.1	Metals-021	[NT]	67	<0.1	<0.1	0	94	94
Nickel	mg/kg	1	Metals-020	[NT]	67	2	1	67	96	83
Zinc	mg/kg	1	Metals-020	[NT]	67	10	7	35	97	77

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	101	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	101	22/07/2024	22/07/2024		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	101	21	12	55	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	101	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	101	10	8	22	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	101	16	12	29	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	101	13	10	26	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	101	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	101	4	4	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	101	19	17	11	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	125	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	125	22/07/2024	22/07/2024		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	125	6	9	40	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	125	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	125	8	10	22	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	125	6	16	91	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	125	10	14	33	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	125	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	125	2	6	100	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	125	7	22	103	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	356782-9
Date prepared	-			19/07/2024	7	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			19/07/2024	7	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Perfluorohexanesulfonic acid - PFHxS	µg/kg	5	Org-029	<5	7	<5	<5	0	95	93
Perfluorooctanesulfonic acid PFOS	µg/kg	5	Org-029	<5	7	<5	<5	0	100	99
Perfluorooctanoic acid PFOA	µg/kg	5	Org-029	<5	7	<5	<5	0	81	80
6:2 FTS	µg/kg	5	Org-029	<5	7	<5	<5	0	98	92
8:2 FTS	µg/kg	5	Org-029	<5	7	<5	<5	0	93	95
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	108	7	105	109	4	110	104
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	102	7	103	106	3	100	102
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	95	7	97	97	0	100	94
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	90	7	88	83	6	92	86
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	107	7	96	96	0	102	95
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	103	7	92	98	6	98	96
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	112	7	102	98	4	111	100

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	130	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	130	19/07/2024	19/07/2024		[NT]	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	5	Org-029	[NT]	130	<5	<5	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	5	Org-029	[NT]	130	<5	<5	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/kg	5	Org-029	[NT]	130	<5	<5	0	[NT]	[NT]
6:2 FTS	µg/kg	5	Org-029	[NT]	130	<5	<5	0	[NT]	[NT]
8:2 FTS	µg/kg	5	Org-029	[NT]	130	<5	<5	0	[NT]	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	[NT]	130	111	113	2	[NT]	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	[NT]	130	96	107	11	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	[NT]	130	99	105	6	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	[NT]	130	92	92	0	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	[NT]	130	105	99	6	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{13}C_2$ 6:2FTS	%		Org-029	[NT]	130	107	106	1	[NT]	[NT]
Extracted ISTD $^{13}C_2$ 8:2FTS	%		Org-029	[NT]	130	115	114	1	[NT]	[NT]

QUALITY CONTROL: Misc Inorg - Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	[NT]
Date prepared	-			17/07/2024	20	17/07/2024	17/07/2024		17/07/2024	[NT]
Date analysed	-			24/07/2024	20	24/07/2024	24/07/2024		24/07/2024	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	20	6.1	6.1	0	100	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	20	95	100	5	100	[NT]

QUALITY CONTROL: Misc Inorg - Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date prepared	-			[NT]	48	17/07/2024	17/07/2024		17/07/2024	[NT]
Date analysed	-			[NT]	48	24/07/2024	24/07/2024		24/07/2024	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	48	5.6	5.5	2	100	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	48	460	450	2	100	[NT]

QUALITY CONTROL: Misc Inorg - Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	93	17/07/2024	17/07/2024		[NT]	[NT]
Date analysed	-			[NT]	93	24/07/2024	24/07/2024		[NT]	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	93	6.1	6.1	0	[NT]	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	93	650	650	0	[NT]	[NT]

QUALITY CONTROL: Misc Inorg - Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	130	17/07/2024	17/07/2024		[NT]	[NT]
Date analysed	-			[NT]	130	24/07/2024	24/07/2024		[NT]	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	130	7.3	7.4	1	[NT]	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	130	630	630	0	[NT]	[NT]

QUALITY CONTROL: CEC						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	356782-57
Date prepared	-			23/07/2024	15	23/07/2024	23/07/2024		23/07/2024	23/07/2024
Date analysed	-			23/07/2024	15	23/07/2024	23/07/2024		23/07/2024	23/07/2024
Exchangeable Ca	meq/100g	0.1	Metals-020	<0.1	15	<0.1	<0.1	0	92	84
Exchangeable K	meq/100g	0.1	Metals-020	<0.1	15	<0.1	<0.1	0	94	92
Exchangeable Mg	meq/100g	0.1	Metals-020	<0.1	15	5.5	5.0	10	88	#
Exchangeable Na	meq/100g	0.1	Metals-020	<0.1	15	1.5	1.4	7	87	83

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	[NT]
Date analysed	-			22/07/2024	[NT]	[NT]	[NT]	[NT]	22/07/2024	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	102	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	104	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	93	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate Toluene-d8	%		Org-023	96	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	95	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	356782-149
Date extracted	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	19/07/2024
Date analysed	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	19/07/2024
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	112	105
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	115	112
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	96
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	112	105
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	115	112
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	96
Surrogate o-Terphenyl	%		Org-020	65	[NT]	[NT]	[NT]	[NT]	109	74

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	356782-149
Date extracted	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	19/07/2024
Date analysed	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	19/07/2024
Naphthalene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	61	89
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	61	88
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	62	103
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	78	102
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	70	84
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	71	84
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	72	80
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	65	80
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	66	[NT]	[NT]	[NT]	[NT]	81	90

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	[NT]
Date analysed	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	[NT]
Arsenic - Total	mg/L	0.05	Metals-020	<0.05	[NT]	[NT]	[NT]	[NT]	98	[NT]
Cadmium - Total	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	89	[NT]
Chromium - Total	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	91	[NT]
Copper - Total	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	93	[NT]
Lead - Total	mg/L	0.03	Metals-020	<0.03	[NT]	[NT]	[NT]	[NT]	93	[NT]
Mercury - Total	mg/L	0.0005	Metals-021	<0.0005	[NT]	[NT]	[NT]	[NT]	108	[NT]
Nickel - Total	mg/L	0.02	Metals-020	<0.02	[NT]	[NT]	[NT]	[NT]	94	[NT]
Zinc - Total	mg/L	0.02	Metals-020	<0.02	[NT]	[NT]	[NT]	[NT]	100	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Acid Extractable Metals in Soil:
- The laboratory RPD acceptance criteria has been exceeded for 356782-1 for Cr. Therefore a triplicate result has been issued as laboratory sample number 356782-151.
- The laboratory RPD acceptance criteria has been exceeded for 356782-67 for Cr. Therefore a triplicate result has been issued as laboratory sample number 356782-152.
- The laboratory RPD acceptance criteria has been exceeded for 356782-125 for Cu & Zn. Therefore a triplicate result has been issued as laboratory sample number 356782-153.
- The PQL has been raised for Cd due to the high moisture content in sample 356782-109, resulting in a high dilution factor.

CEC - # Low spike recovery was obtained for this sample. The sample was re-digested and re-spiked and the low recovery was confirmed. This is due to matrix interferences. However, an acceptable recovery was obtained for the LCS.

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	207476.06 Erskine Park (Satge 1)
Envirolab Reference	356782
Date Sample Received	17/07/2024
Date Instructions Received	17/07/2024
Date Results Expected to be Reported	24/07/2024

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	149 Soil, 1 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	12
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	Misc Soil - Inorg	Acid Extractable metalsin soil	PFAS in Soils Short	Misc Inorg - Soil	CEC	Asbestos ID - soils NEPM	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	On Hold
TP201-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓					
TP201-0.3-0.5																	✓
TP201-0.8-1	✓	✓	✓					✓		✓							
TP202-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓					
TP202-0.4-0.5																	✓
TP202-0.9-1.1																	✓
TP203-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓					
TP203-0.4-0.6																	✓
TP203-0.9-1.1	✓	✓	✓					✓	✓	✓							
TP204-0-0.05												✓					
TP204-0.1-0.3																	✓
TP204-0.6-0.8																	✓
TP205-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓					
TP205-0.3-0.5																	✓
TP205-0.8-1	✓	✓	✓					✓		✓	✓						
TP206-0-0.2												✓					
TP206-0.5-0.7												✓					
TP206-0.8-1																	✓
TP206-1.2-1.4																	✓
TP207-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓					
TP207-0.5-0.7												✓					
TP207-1-1.2	✓	✓	✓					✓		✓							
TP207-2-2.2	✓	✓	✓					✓	✓	✓							
TP208-0-0.2												✓					
TP208-0.5-0.7												✓					
TP208-0.9-1.1																	✓
TP208-1.9-2.1												✓					
TP208-2.8-3												✓					
TP209-0-0.2																	✓
TP209-0.5-0.7												✓					
TP209-1.5-1.7												✓					
TP209-2.5-2.7	✓	✓	✓					✓		✓		✓					

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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	Misc Soil - Inorg	Acid Extractable metalsin soil	PFAS in Soils Short	Misc Inorg - Soil	CEC	Asbestos ID - soils NEPM	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	On Hold
TP210-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓					
TP210-0.5-0.7												✓					
TP210-1-1.2	✓	✓	✓					✓		✓							
TP210-1.7-1.9												✓					
TP210-2.7-2.9	✓	✓	✓					✓		✓							
TP210-3.3-3.5																	✓
TP211-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓					
TP211-0.5-0.7												✓					
TP211-0.9-1.1												✓					
TP211-1.2-1.35												✓					
TP211-1.4-1.6																	✓
TP211-1.8-2	✓	✓	✓					✓	✓	✓							
TP212-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓					
TP212-0.5-0.7												✓					
TP212-1-1.2												✓					
TP212-2-2.2	✓	✓	✓					✓		✓		✓					
TP212-2.4-2.6	✓	✓	✓					✓		✓							
TP212-2.8-3																	✓
TP213-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓					
TP213-0.3-0.5												✓					
TP213-0.6-0.8	✓	✓	✓					✓		✓		✓					
TP213-0.8-0.9												✓					
TP213-1-1.2																	✓
TP213-1.4-1.6																	✓
TP214-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓					
TP214-0.4-0.6												✓					
TP214-0.9-1.1	✓	✓	✓					✓				✓					
TP214-1.9-2.1												✓					
TP214-2.8-3																	✓
TP214-3.1-3.3																	✓
TP215-0-0.2												✓					
TP215-0.5-0.7												✓					

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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	Misc Soil - Inorg	Acid Extractable metalsin soil	PFAS in Soils Short	Misc Inorg - Soil	CEC	Asbestos ID - soils NEPM	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	On Hold
TP215-1.1-0.13																	✓
TP215-1.5-1.7																	✓
TP216-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓					
TP216-0.5-0.7												✓					
TP216-0.8-1												✓					
TP216-1.3-1.5	✓	✓	✓					✓		✓		✓					
TP216-1.8-2												✓					
TP216-2.4-2.6	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓					
TP216-2.8-3																	✓
TP216-3.2-3.4																	✓
TP217-0-0.2												✓					
TP217-0.4-0.6												✓					
TP217-0.9-1.1												✓					
TP217-1.7-1.9												✓					
TP217-2.15-2.35												✓					
TP217-2.4-2.6																	✓
TP217-2.8-3																	✓
TP218-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓					
TP218-0.5-0.7	✓	✓	✓					✓									
TP218-1-1.2												✓					
TP218-1.3-1.5																	✓
TP218-1.6-1.8	✓	✓	✓					✓		✓							
TP219-0-0.2												✓					
TP219-0.5-0.7												✓					
TP219-0.9-1.1												✓					
TP219-1.6-1.8												✓					
TP219-2.1-2.3																	✓
TP219-2.4-2.6																	✓
TP220-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓					
TP220-0.4-0.6	✓	✓	✓					✓		✓							
TP220-0.9-1.1																	✓
TP221-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓					

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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	Misc Soil - Inorg	Acid Extractable metalsin soil	PFAS in Soils Short	Misc Inorg - Soil	CEC	Asbestos ID - soils NEPM	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	On Hold
TP221-0.5-0.7												✓					
TP221-1.25-1.35	✓	✓	✓					✓				✓					
TP221-1.4-1.6																	✓
TP221-1.8-2																	✓
TP222-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓					
TP222-0.3-0.5												✓					
TP222-0.8-1												✓					
TP222-1.8-1.9	✓	✓	✓					✓	✓	✓		✓					
TP222-2.3-2.5	✓	✓	✓					✓		✓							
TP222-2.6-2.8																	✓
TP223-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓					
TP223-0.3-0.5	✓	✓	✓					✓		✓		✓					
TP223-0.8-1												✓					
TP223-1.8-2												✓					
TP223-2.8-3																	✓
TP223-3.1-3.3												✓					
TP223-3.4-3.6																	✓
TP224-0-0.2																	✓
TP224-0.5-0.7																	✓
TP224-0.8-1																	✓
TP224-1.2-1.4																	✓
TP225-0-0.2												✓					
TP225-0.5-0.7												✓					
TP225-0.7-0.9																	✓
TP225-1-1.2												✓					
TP225-1.9-2.1																	✓
TP225-2.2-2.4												✓					
TP225-3-3.2																	✓
TP226-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓					
TP226-0.5-0.7	✓	✓	✓					✓				✓					
TP226-1-1.2												✓					
TP227-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓					

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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	Misc Soil - Inorg	Acid Extractable metalsin soil	PFAS in Soils Short	Misc Inorg - Soil	CEC	Asbestos ID - soils NEPM	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	On Hold
TP227-0.5-0.7												✓					
TP227-1-1.2	✓	✓	✓					✓	✓	✓		✓					
TP227-1.8-2												✓					
TP227-2.1-2.3																	✓
TP227-2.4-2.6	✓	✓	✓					✓	✓	✓							
SS1-0-0.2	✓	✓	✓					✓				✓					
SS2-0-0.2	✓	✓	✓					✓				✓					
BD1/20240711																	✓
BD2/20240711																	✓
BD3/20240711																	✓
BD4/20240711																	✓
BD5/20240711																	✓
BD1/20240712																	✓
BD2/20240712																	✓
BD3/20240712																	✓
BD4/20240712																	✓
BD5/20240712	✓	✓	✓					✓									
BD6/20240712	✓	✓	✓					✓									
TS-120724	✓																
TB-120724	✓																
RINS-120724													✓	✓	✓	✓	
TP225-2.5-2.7																	✓

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.

CHAIN OF CUSTODY DESPATCH SHEET

Douglas PARTNERS

Project No:	207476.06	**Suburb:**	Erskine Park	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**		**Sampler:** PJ	12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au; patrick.johansson@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.cor
Prior Storage	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**		☑ No ☐ YES, handle, transport, store in accordance with FPM HAZID)	

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - Glass Jar P - PFAS B - AFFA BAG	Analytes: Hold										Notes/ Preservation/ Additional Requirements
1	TP201	0	0.2	12/07/24	S	G,B	x										
2	TP201	0.3	0.5	12/07/24	S	G	x										
3	TP201	0.8	1	12/07/24	S	G	x										
4	TP202	0	0.2	12/07/24	S	G,B	x										
5	TP202	0.4	0.5	12/07/24	S	G	x										
6	TP202	0.9	1.1	12/07/24	S	G	x										
7	TP203	0	0.2	12/07/24	S	G,P,B	x										
8	TP203	0.4	0.6	12/07/24	S	G,P	x										
9	TP203	0.9	1.1	12/07/24	S	G,P	x										
10	TP204	0	0.05	12/07/24	S	G,P,B	x										
11	TP204	0.1	0.3	12/07/24	S	G,P	x										
12	TP204	0.6	0.8	12/07/24	S	G,P	x										
13	TP205	0	0.2	12/07/24	S	G,B	x										
14	TP205	0.3	0.5	12/07/24	S	G	x										

ENVIROLAB

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

Job No: 356702
Date Received: 17/7/24
Time Received: 1130
Received By: CW
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Metals to analyse:			**LAB RECEIPT**
Number of samples in container:		**Transported to laboratory by:** Courier	**Lab Ref. No:**
Send results to:	Douglas Partners Pty Ltd		**Received by:**
Address:	96 Hermitage Road, West Ryde NSW 21	**Phone:** (02) 9809 0666	**Date & Tim**
Relinquished by:	Patrick Johansson	**Date:** 17/07/2024 **Signed:**	**Signed:**

#356782

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	207476.06	**Suburb:** Erskine Park	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 17/07/2024

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes											Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - Glass Jar P - PFAS B - AFFA	Hold											
15	TP205	0.8	1	12/07/24	S	G	x											
16	TP206	0	0.2	12/07/24	S	G,P,B	x											
17	TP206	0.5	0.7	12/07/24	S	G,P,B	x											
18	TP206	0.8	1	12/07/24	S	G,P	x											
19	TP206	1.2	1.4	12/07/24	S	G,P	x											
20	TP207	0	0.2	16/07/24	S	G,P,B	x											
21	TP207	0.5	0.7	16/07/24	S	G,P,B	x											
22	TP207	1	1.2	16/07/24	S	G,P,B	x											
23	TP207	2	2.2	16/07/24	S	G,P,B	x											
24	TP208	0	0.2	16/07/24	S	G,B	x											
25	TP208	0.5	0.7	16/07/24	S	G,B	x											
26	TP208	0.9	1.1	16/07/24	S	G,B	x											
27	TP208	1.9	2.1	16/07/24	S	G,B	x											
28	TP208	2.8	3	16/07/24	S	G,B	x											
29	TP209	0	0.2	16/07/24	S	G,P,B	x											
30	TP209	0.5	0.7	16/07/24	S	G,P,B	x											
31	TP209	1.5	1.7	16/07/24	S	G,P,B	x											
32	TP209	2.5	2.7	16/07/24	S	G,P,B	x											

Douglas PARTNERS

#356782

CHAIN OF CUSTODY DESPATCH SHEET

Project No: 207476.06	**Suburb:** Erskine Park		**To:** Envirolab Services
Project Manager: David Holden			**Dispatch date:** 17/07/2024

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Hold										Notes/ Preservation/ Additional Requirements
33	TP210	0	0.2	16/07/24	S	G,B	x										
34	TP210	0.5	0.7	16/07/24	S	G,B	x										
35	TP210	1	1.2	16/07/24	S	G,B	x										
36	TP210	1.7	1.9	16/07/24	S	G,B	x										
37	TP210	2.7	2.9	16/07/24	S	G,B	x										
38	TP210	3.3	3.5	16/07/24	S	G	x										
39	TP211	0	0.2	12/07/24	S	G,P,B	x										
40	TP211	0.5	0.7	12/07/24	S	G,P,B	x										
41	TP211	0.9	1.1	12/07/24	S	G,P,B	x										
42	TP211	1.2	1.35	12/07/24	S	G,P,B	x										
43	TP211	1.4	1.6	12/07/24	S	G,P	x										
44	TP211	1.8	2	12/07/24	S	G,P	x										
45	TP212	0	0.2	12/07/24	S	G,B	x										
46	TP212	0.5	0.7	12/07/24	S	G,B	x										
47	TP212	1	1.2	12/07/24	S	G,B	x										
48	TP212	2	2.2	12/07/24	S	G,B	x										
49	TP212	2.4	2.6	12/07/24	S	G	x										
50	TP212	2.8	3	12/07/24	S	G	x										
51	TP213	0	0.2	12/07/24	S	G,B	x										

#256781

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	207476.06	**Suburb:** Erskine Park	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 17/07/2024

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Hold										Notes/ Preservation/ Additional Requirements
52	TP213	0.3	0.5	12/07/24	S	G,B	x										
53	TP213	0.6	0.8	12/07/24	S	G,B	x										
54	TP213	0.8	0.9	12/07/24	S	G,B	x										
55	TP213	1	1.2	12/07/24	S	G	x										
56	TP213	1.4	1.6	12/07/24	S	G	x										
57	TP214	0	0.2	12/07/24	S	G,B	x										
58	TP214	0.4	0.6	12/07/24	S	G,B	x										
59	TP214	0.9	1.1	12/07/24	S	G,B	x										
60	TP214	1.9	2.1	12/07/24	S	G,B	x										
61	TP214	2.8	3	12/07/24	S	G	x										
62	TP214	3.1	3.3	12/07/24	S	G	x										
63	TP215	0	0.2	12/07/24	S	G,B	x										
64	TP215	0.5	0.7	12/07/24	S	G,B	x										
65	TP215	1.1	0.13	12/07/24	S	G	x										
66	TP215	1.5	1.7	12/07/24	S	G	x										
67	TP216	0	0.2	11/07/24	S	G,B	x										
68	TP216	0.5	0.7	11/07/24	S	G,B	x										
69	TP216	0.8	1	11/07/24	S	G,B	x										
70	TP216	1.3	1.5	11/07/24	S	G,B	x										

Douglas PARTNERS

#356782

CHAIN OF CUSTODY DESPATCH SHEET

Project No: 207476.06	**Suburb:** Erskine Park	**To:** Envirolab Services	
Project Manager: David Holden		**Dispatch date:** 17/07/2024	

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Hold										Notes/ Preservation/ Additional Requirements
71	TP216	1.8	2	11/07/24	S	G,B	x										
72	TP216	2.4	2.6	11/07/24	S	G,B	x										
73	TP216	2.8	3	11/07/24	S	G	x										
74	TP216	3.2	3.4	11/07/24	S	G	x										
75	TP217	0	0.2	11/07/24	S	G,P,B	x										
76	TP217	0.4	0.6	11/07/24	S	G,P,B	x										
77	TP217	0.9	1.1	11/07/24	S	G,P,B	x										
78	TP217	1.7	1.9	11/07/24	S	G,P,B	x										
79	TP217	2.15	2.35	11/07/24	S	G,P,B	x										
80	TP217	2.4	2.6	11/07/24	S	G,P	x										
81	TP217	2.8	3	11/07/24	S	G,P	x										
82	TP218	0	0.2	12/07/24	S	G,P,B	x										
83	TP218	0.5	0.7	12/07/24	S	G,P,B	x										
84	TP218	1	1.2	12/07/24	S	G,P,B	x										
85	TP218	1.3	1.5	12/07/24	S	G,P	x										
86	TP218	1.6	1.8	12/07/24	S	G,P	x										
87	TP219	0	0.2	11/07/24	S	G,P,B	x										
88	TP219	0.5	0.7	11/07/24	S	G,P,B	x										
89	TP219	0.9	1.1	11/07/24	S	G,P,B	x										

Douglas PARTNERS

#356782

CHAIN OF CUSTODY DESPATCH SHEET

Project No: 207476.06	**Suburb:** Erskine Park	**To:** Envirolab Services	
Project Manager: David Holden		**Dispatch date:** 17/07/2024	

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes										Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water M -	G - Glass Jar P - PFAS B - AFFA	Hold										
90	TP219	1.6	1.8	11/07/24	S	G,P,B	x										
91	TP219	2.1	2.3	11/07/24	S	G,P	x										
92	TP219	2.4	2.6	11/07/24	S	G,P	x										
93	TP220	0	0.2	11/07/24	S	G,P,B	x										
94	TP220	0.4	0.6	11/07/24	S	G,P	x										
95	TP220	0.9	1.1	11/07/24	S	G,P	x										
96	TP221	0	0.2	12/07/24	S	G,B	x										
97	TP221	0.5	0.7	12/07/24	S	G,B	x										
98	TP221	1.25	1.35	12/07/24	S	G,B	x										
99	TP221	1.4	1.6	12/07/24	S	G	x										
100	TP221	1.8	2	12/07/24	S	G	x										
101	TP222	0	0.2	16/07/24	S	G,P,B	x										
102	TP222	0.3	0.5	16/07/24	S	G,P,B	x										
103	TP222	0.8	1	16/07/24	S	G,P,B	x										
104	TP222	1.8	1.9	16/07/24	S	G,P,B	x										
105	TP222	2.3	2.5	16/07/24	S	G,P	x										
106	TP222	2.6	2.8	16/07/24	S	G,P	x										
107	TP223	0	0.2	11/07/24	S	G,B	x										
108	TP223	0.3	0.5	11/07/24	S	G,B	x										

Douglas PARTNERS

#356782

CHAIN OF CUSTODY DESPATCH SHEET

Project No: 207476.06	**Suburb:** Erskine Park	**To:** Envirolab Services	
Project Manager: David Holden		**Dispatch date:** 17/07/2024	

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Hold										Notes/ Preservation/ Additional Requirements
109	TP223	0.8	1	11/07/24	S	G,B	x										
110	TP223	1.8	2	11/07/24	S	G,B	x										
111	TP223	2.8	3	11/07/24	S	G,B	x										
117	TP223	3.1	3.3	11/07/24	S	G,B	x										
113	TP223	3.4	3.5	11/07/24	S	G	x										
114	TP224	0	0.2	12/07/24	S	G,P,B	x										
115	TP224	0.5	0.7	12/07/24	S	G,P,B	x										
116	TP224	0.8	1	12/07/24	S	G,P,B	x										
117	TP224	1.2	1.4	12/07/24	S	G,P,B	x										
118	TP225	0	0.2	11/07/24	S	G,P,B	x										
119	TP225	0.5	0.7	11/07/24	S	G,P,B	x										
120	TP225	0.7	0.9	11/07/24	S	G,P,B	x										
121	TP225	1	1.2	11/07/24	S	G,P,B	x										
122	TP225	1.9	2.1	11/07/24	S	G,P,B	x										
123	TP225	2.2	2.4	11/07/24	S	G,P,B	x										
NR	TP225	2.5	2.7	11/07/24	S	G,P	x										
124	TP225	3	3.2	11/07/24	S	G,P	x										
125	TP226	0	0.2	16/07/24	S	G,B	x										
126	TP226	0.5	0.7	16/07/24	S	G,B	x										

Douglas PARTNERS

#356782 **CHAIN OF CUSTODY DESPATCH SHEET**

Project No: 207476.06	**Suburb:** Erskine Park		**To:** Envirolab Services
Project Manager: David Holden			**Dispatch date:** 17/07/2024

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Hold										Notes/ Preservation/ Additional Requirements
127	TP226	1	1.2	16/07/24	S	G,B	x										
128	TP227	0	0.2	11/07/24	S	G,P,B	x										
129	TP227	0.5	0.7	11/07/24	S	G,P,B	x										
130	TP227	1	1.2	11/07/24	S	G,P,B	x										
131	TP227	1.8	2	11/07/24	S	G,P,B	x										
132	TP227	2.1	2.3	11/07/24	S	G,P	x										
133	TP227	2.4	2.6	11/07/24	S	G,P	x										
134	SS1	0	0.2	16/07/24	S	S	x										
135	SS2	0	0.2	16/07/24	S	S	x										
136	BD1/20240711	-	-	11/07/24	S	G	x										
137	BD2/20240711	-	-	11/07/24	S	G,P	x										
138	BD3/20240711	-	-	11/07/24	S	G	x										
139	BD4/20240711	-	-	11/07/24	S	G,P	x										
140	BD5/20240711	-	-	11/07/24	S	G,P	x										
141	BD1/20240712	-	-	12/07/24	S	G	x										
142	BD2/20240712	-	-	12/07/24	S	G,P	x										
143	BD3/20240712	-	-	12/07/24	S	G,P	x										
144	BD4/20240712	-	-	12/07/24	S	G	x										
145	BD5/20240712	-	-	12/07/24	S	G,P	x										

#356782

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	207476.06	**Suburb:** Erskine Park	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 17/07/2024

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Hold										Notes/ Preservation/ Additional Requirements
146	BD6/20240712	-	-	12/07/24	S	G,P	x										
147	TS-120724			12/07/24		G	x										
148	TB-120724			12/07/24		G	x										
149	RINS-120724			12/07/24	w	G / P	x										

COC: 116724 1102

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEE

Project No:	207476.06	**Suburb:**	Erskine Park (Stage 1)	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**		**Sampler:** PJ	12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au; patrick.johansson@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.cor
Prior Storage:	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**		☑ No ☐ Yes, handle, transport, store in accordance with FPM HAZID)	

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - Glass Jar P - PFAS B - AFFA BAG	Analytes: Combo 8AN	Combo 3	Combo 3AN	Asbestos 500mL	PFAS (short suite)	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
1	TP201	0	0.2	12/07/24	S	G,B	x						x		x					
2	TP201	0.3	0.5	12/07/24	S	G													x	
3	TP201	0.8	1	12/07/24	S	G		x					x		x					
4	TP202	0	0.2	12/07/24	S	G,B	x						x		x					
5	TP202	0.4	0.5	12/07/24	S	G													x	
6	TP202	0.9	1.1	12/07/24	S	G													x	
7	TP203	0	0.2	12/07/24	S	G,P,B	x				x		x		x					
8	TP203	0.4	0.6	12/07/24	S	G,P													x	
9	TP203	0.9	1.1	12/07/24	S	G,P		x			x		x		x					
10	TP204	0	0.05	12/07/24	S	G,P,B				x										
11	TP204	0.1	0.3	12/07/24	S	G,P													x	
12	TP204	0.6	0.8	12/07/24	S	G,P													x	
13	TP205	0	0.2	12/07/24	S	G,B	x						x		x					
14	TP205	0.3	0.5	12/07/24	S	G													x	

Metals to analyse:	8ha		
Number of samples in container:		**Transported to laboratory by:**	PJ
Send results to:	Douglas Partners Pty Ltd		
Address:	96 Hermitage Road, West Ryde NSW 211	**Phone:**	(02) 9809 0666
Relinquished by:	Patrick Johansson	**Date:**	17/07/2024 **Signed:**

LAB RECEIPT

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

Lab Ref. No:
Received by:
Date & Time:
Signed:
Job No: 356782

Date Received: 17/7/24
Time Received: 1130
Received By: N
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEE

356782

Project No:	207476.06	**Suburb:** Erskine Park	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 17/07/2024

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes												Hold	Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water	G - Glass Jar P - PFAS B - AFFA	Combo 8AN	Combo 3	Combo 3AN	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH		
15	TP205	0.8	1	12/07/24	S	G		x					x	x	x					
16	TP206	0	0.2	12/07/24	S	G,P,B				x										
17	TP206	0.5	0.7	12/07/24	S	G,P,B				x										
18	TP206	0.8	1	12/07/24	S	G,P													x	
19	TP206	1.2	1.4	12/07/24	S	G,P													x	
20	TP207	0	0.2	16/07/24	S	G,P,B	x				x		x		x					
21	TP207	0.5	0.7	16/07/24	S	G,P,B				x										
22	TP207	1	1.2	16/07/24	S	G,P,B		x					x		x					
23	TP207	2	2.2	16/07/24	S	G,P,B		x			x		x		x					
24	TP208	0	0.2	16/07/24	S	G,B				x										
25	TP208	0.5	0.7	16/07/24	S	G,B				x										
26	TP208	0.9	1.1	16/07/24	S	G,B													x	
27	TP208	1.9	2.1	16/07/24	S	G,B				x										
28	TP208	2.8	3	16/07/24	S	G,B				x										
29	TP209	0	0.2	16/07/24	S	G,P,B													x	
30	TP209	0.5	0.7	16/07/24	S	G,P,B				x										
31	TP209	1.5	1.7	16/07/24	S	G,P,B				x										
32	TP209	2.5	2.7	16/07/24	S	G,P,B			x				x		x					

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEE

356782

Project No:	207476.06	**Suburb:**	Erskine Park
Project Manager:	David Holden	**To:**	Envirolab Services
		Dispatch date:	17/07/2024

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location /Other ID	Depth From	Depth To		S - soil W - water	G - Glass Jar P - PFAS B - AFFA	Combo 8AN	Combo 3	Combo 3AN	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	
33	TP210	0	0.2	16/07/24	S	G,B	x						x		x					
34	TP210	0.5	0.7	16/07/24	S	G,B				x										
35	TP210	1	1.2	16/07/24	S	G,B		x					x		x					
36	TP210	1.7	1.9	16/07/24	S	G,B				x										
37	TP210	2.7	2.9	16/07/24	S	G,B		x					x		x					
38	TP210	3.3	3.5	16/07/24	S	G													x	
39	TP211	0	0.2	12/07/24	S	G,P,B	x				x		x		x					
40	TP211	0.5	0.7	12/07/24	S	G,P,B				x										
41	TP211	0.9	1.1	12/07/24	S	G,P,B				x										
42	TP211	1.2	1.35	12/07/24	S	G,P,B				x										
43	TP211	1.4	1.6	12/07/24	S	G,P													x	
44	TP211	1.8	2	12/07/24	S	G,P		x			x		x		x					
45	TP212	0	0.2	12/07/24	S	G,B	x						x		x					
46	TP212	0.5	0.7	12/07/24	S	G,B				x										
47	TP212	1	1.2	12/07/24	S	G,B				x										
48	TP212	2	2.2	12/07/24	S	G,B			x				x		x					
49	TP212	2.4	2.6	12/07/24	S	G		x					x		x					
50	TP212	2.8	3	12/07/24	S	G													x	
51	TP213	0	0.2	12/07/24	S	G,B	x						x		x					

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEE

356782

Project No:	207476.06	**Suburb:** Erskine Park	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 17/07/2024

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes													Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water	G - Glass Jar P - PFAS B - AFFA	Combo 8AN	Combo 3	Combo 3AN	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	
52	TP213	0.3	0.5	12/07/24	S	G,B				x										
53	TP213	0.6	0.8	12/07/24	S	G,B			x				x		x					
54	TP213	0.8	0.9	12/07/24	S	G,B				x										
55	TP213	1	1.2	12/07/24	S	G													x	
56	TP213	1.4	1.6	12/07/24	S	G													x	
57	TP214	0	0.2	12/07/24	S	G,B	x						x	x	x					
58	TP214	0.4	0.6	12/07/24	S	G,B				x										
59	TP214	0.9	1.1	12/07/24	S	G,B			x											
60	TP214	1.9	2.1	12/07/24	S	G,B				x										
61	TP214	2.8	3	12/07/24	S	G													x	
62	TP214	3.1	3.3	12/07/24	S	G													x	
63	TP215	0	0.2	12/07/24	S	G,B				x										
64	TP215	0.5	0.7	12/07/24	S	G,B				x										
65	TP215	1.1	0.13	12/07/24	S	G													x	
66	TP215	1.5	1.7	12/07/24	S	G													x	
67	TP216	0	0.2	11/07/24	S	G,B	x						x		x					
68	TP216	0.5	0.7	11/07/24	S	G,B				x										
69	TP216	0.8	1	11/07/24	S	G,B				x										
70	TP216	1.3	1.5	11/07/24	S	G,B			x				x		x					

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEE

256782

Project No:	207476.06	**Suburb:** Erskine Park	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 17/07/2024

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Combo 8AN	Combo 3	Combo 3AN	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
71	TP216	1.8	2	11/07/24	S	G,B				x										
72	TP216	2.4	2.6	11/07/24	S	G,B	x						x		x					
73	TP216	2.8	3	11/07/24	S	G													x	
74	TP216	3.2	3.4	11/07/24	S	G													x	
75	TP217	0	0.2	11/07/24	S	G,P,B				x										
76	TP217	0.4	0.6	11/07/24	S	G,P,B				x										
77	TP217	0.9	1.1	11/07/24	S	G,P,B				x										
78	TP217	1.7	1.9	11/07/24	S	G,P,B				x										
79	TP217	2.15	2.35	11/07/24	S	G,P,B				x										
80	TP217	2.4	2.6	11/07/24	S	G,P													x	
81	TP217	2.8	3	11/07/24	S	G,P													x	
82	TP218	0	0.2	12/07/24	S	G,P,B	x				x		x		x					
83	TP218	0.5	0.7	12/07/24	S	G,P,B		x												
84	TP218	1	1.2	12/07/24	S	G,P,B				x										
85	TP218	1.3	1.5	12/07/24	S	G,P													x	
86	TP218	1.6	1.8	12/07/24	S	G,P		x					x		x					
87	TP219	0	0.2	11/07/24	S	G,P,B				x										
88	TP219	0.5	0.7	11/07/24	S	G,P,B				x										
89	TP219	0.9	1.1	11/07/24	S	G,P,B				x										

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEE

356782

Project No:	207476.06	**Suburb:** Erskine Park	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 17/07/2024

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes												Hold	Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water	G - Class Jar P - PFAS B - AFFA	Combo 8AN	Combo 3	Combo 3AN	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH		
90	TP219	1.6	1.8	11/07/24	S	G,P,B				x										
91	TP219	2.1	2.3	11/07/24	S	G,P													x	
92	TP219	2.4	2.6	11/07/24	S	G,P													x	
93	TP220	0	0.2	11/07/24	S	G,P,B	x				x		x		x					
94	TP220	0.4	0.6	11/07/24	S	G,P		x					x		x					
95	TP220	0.9	1.1	11/07/24	S	G,P													x	
96	TP221	0	0.2	12/07/24	S	G,B	x						x	x	x					
97	TP221	0.5	0.7	12/07/24	S	G,B				x										
98	TP221	1.25	1.35	12/07/24	S	G,B			x											
99	TP221	1.4	1.6	12/07/24	S	G													x	
100	TP221	1.8	2	12/07/24	S	G													x	
101	TP222	0	0.2	16/07/24	S	G,P,B	x						x		x					
102	TP222	0.3	0.5	16/07/24	S	G,P,B				x										
103	TP222	0.8	1	16/07/24	S	G,P,B				x										
104	TP222	1.8	1.9	16/07/24	S	G,P,B			x		x		x		x					
105	TP222	2.3	2.5	16/07/24	S	G,P		x					x		x					
106	TP222	2.6	2.8	16/07/24	S	G,P													x	
107	TP223	0	0.2	11/07/24	S	G,B	x						x		x					
108	TP223	0.3	0.5	11/07/24	S	G,B			x				x		x					

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEE

356782

Project No:	207476.06	**Suburb:**	Erskine Park	**To:**	Envirolab Services
Project Manager:	David Holden			**Dispatch date:**	17/07/2024

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Combo 8AN	Combo 3	Combo 3AN	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
109	TP223	0.8	1	11/07/24	S	G,B				x										
110	TP223	1.8	2	11/07/24	S	G,B				x										
111	TP223	2.8	3	11/07/24	S	G,B													x	
112	TP223	3.1	3.3	11/07/24	S	G,B				x										
113	TP223	3.4	3.6	11/07/24	S	G													x	
114	TP224	0	0.2	12/07/24	S	G,P,B													x	
115	TP224	0.5	0.7	12/07/24	S	G,P,B													x	
116	TP224	0.8	1	12/07/24	S	G,P,B													x	
117	TP224	1.2	1.4	12/07/24	S	G,P,B													x	
118	TP225	0	0.2	11/07/24	S	G,P,B				x										
119	TP225	0.5	0.7	11/07/24	S	G,P,B				x										
120	TP225	0.7	0.9	11/07/24	S	G,P,B													x	
121	TP225	1	1.2	11/07/24	S	G,P,B				x										
122	TP225	1.9	2.1	11/07/24	S	G,P,B													x	
123	TP225	2.2	2.4	11/07/24	S	G,P,B				x										
~~118~~ 150	TP225	2.5	2.7	11/07/24	S	G,P													x	
124	TP225	3	3.2	11/07/24	S	G,P													x	
125	TP226	0	0.2	16/07/24	S	G,B	x						x	x	x					
126	TP226	0.5	0.7	16/07/24	S	G,B			x											

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEE

355782

Project No:	207476.06	**Suburb:** Erskine Park	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 17/07/2024

Lab ID	Sample ID			Date Sampled	Sample Type	Container Type	Analytes												Hold	Notes/ Preservation/ Additional Requirements
	Location / Other ID	Depth From	Depth To		S - soil W - water	G - Glass Jar P - PFAS B - AFFA	Combo 8AN	Combo 3	Combo 3AN	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH		
127	TP226	1	1.2	16/07/24	S	G,B				x										
128	TP227	0	0.2	11/07/24	S	G,P,B	x				x		x		x					
129	TP227	0.5	0.7	11/07/24	S	G,P,B				x										
130	TP227	1	1.2	11/07/24	S	G,P,B			x		x		x		x					
131	TP227	1.8	2	11/07/24	S	G,P,B				x										
132	TP227	2.1	2.3	11/07/24	S	G,P													x	
133	TP227	2.4	2.6	11/07/24	S	G,P		x			x		x		x					
134	SS1	0	0.2	16/07/24	S	S		x		x										
135	SS2	0	0.2	16/07/24	S	S		x		x										
136	BD1/20240711	-	-	11/07/24	S	G													x	
137	BD2/20240711	-	-	11/07/24	S	G,P													x	
138	BD3/20240711	-	-	11/07/24	S	G													x	
139	BD4/20240711	-	-	11/07/24	S	G,P		x											Please send for inter-laboratory analysis	
140	BD5/20240711	-	-	11/07/24	S	G,P													x	
141	BD1/20240712	-	-	12/07/24	S	G													x	
142	BD2/20240712	-	-	12/07/24	S	G,P													x	
143	BD3/20240712	-	-	12/07/24	S	G,P		x											Please send for inter-laboratory analysis	
144	BD4/20240712	-	-	12/07/24	S	G		x											Please send for inter-laboratory analysis	
145	BD5/20240712	-	-	12/07/24	S	G,P		x												

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEE

35678

Project No:	207476.06	**Suburb:** Erskine Park	**To:** Envirolab Services
Project Manager:	David Holden		**Dispatch date:** 17/07/2024

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Combo 8AN	Combo 3	Combo 3AN	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH		Notes/ Preservation/ Additional Requirements
146	BD6/20240712	-	-	12/07/24	S	G,P		x												
147	TS-120724			12/07/24	S	G						x								
148	TB-120724			12/07/24	S	G						x								
149	RINS-120724			12/07/24	W	G / P						x				x	x	x		

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

356782

Project No:	207476.06	**Suburb:**	Erskine Park (Stage 1)	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**		**Sampler:** PJ	12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au; patrick.johansson@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.cor
Prior Storage:	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☑ No ☐ Yes, handle, transport, store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - Glass Jar P - PFAS B - AFFA BAG	Analytes: Metals 8ha	BTEX	TRH	PAH								Notes/ Preservation/ Additional Requirements
	BD4/20240711	-	-	11/07/24	S	G,P	x	x	x	x								Please send for inter-laboratory analysis
	BD3/20240712	-	-	12/07/24	S	G,P	x	x	x	x								Please send for inter-laboratory analysis
	BD4/20240712	-	-	12/07/24	S	G	x	x	x	x								Please send for inter-laboratory analysis

Metals to analyse:	8ha			**LAB RECEIPT**	
Number of samples in container:		**Transported to laboratory by:**	PJ	**Lab Ref. No:**	
Send results to:	Douglas Partners Pty Ltd			**Received by:**	
Address:	96 Hermitage Road, West Ryde NSW 211	**Phone:**	(02) 9809 0666	**Date & Time:**	
Relinquished by:	Patrick Johansson	**Date:**	17/07/2024 **Signed:**	**Signed:**	

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CERTIFICATE OF ANALYSIS 356782-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**207476.06 Erskine Park (Stage 1)**
Number of Samples	Additional analysis
Date samples received	17/07/2024
Date completed instructions received	25/07/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	01/08/2024
Date of Issue	01/08/2024

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean, Sneha Shakya
Authorised by Asbestos Approved Signatory: Nyovan Moonean

Results Approved By
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Nyovan Moonean, Asbestos Approved Identifier/Counter
Timothy Toll, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

sTPH in Soil (C10-C40)-Silica		
Our Reference		356782-A-32
Your Reference	UNITS	TP209
Depth		2.5-2.7
Date Sampled		16/07/2024
Type of sample		Soil
Date extracted	-	29/07/2024
Date analysed	-	30/07/2024
TPH C_{10} - C_{14}	mg/kg	<50
TPH C_{15} - C_{28}	mg/kg	<100
TPH C_{29} - C_{36}	mg/kg	<100
TPH >C_{10} -C_{16}	mg/kg	<50
TPH >C_{16} -C_{34}	mg/kg	<100
TPH >C_{34} -C_{40}	mg/kg	<100
Surrogate 1-Chlorooctadecane	%	85

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356782-A-24	356782-A-28	356782-A-29	356782-A-31	356782-A-68
Your Reference	UNITS	TP208	TP208	TP209	TP209	TP216
Depth		0-0.2	2.8-3	0-0.2	1.5-1.7	0.5-0.7
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Date analysed	-	30/07/2024	30/07/2024	30/07/2024	30/07/2024	30/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	101	52	77	100	84

vTRH(C6-C10)/BTEXN in Soil					
Our Reference		356782-A-73	356782-A-112	356782-A-113	356782-A-136
Your Reference	UNITS	TP216	TP223	TP223	BD1/20240711
Depth		2.8-3	3.1-3.3	3.4-3.6	-
Date Sampled		11/07/2024	11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Date analysed	-	30/07/2024	30/07/2024	30/07/2024	30/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	58	80	100	102

svTRH (C10-C40) in Soil						
Our Reference		356782-A-24	356782-A-28	356782-A-29	356782-A-31	356782-A-68
Your Reference	UNITS	TP208	TP208	TP209	TP209	TP216
Depth		0-0.2	2.8-3	0-0.2	1.5-1.7	0.5-0.7
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Date analysed	-	30/07/2024	30/07/2024	30/07/2024	30/07/2024	30/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	92	97	94	92	90

svTRH (C10-C40) in Soil					
Our Reference		356782-A-73	356782-A-112	356782-A-113	356782-A-136
Your Reference	UNITS	TP216	TP223	TP223	BD1/20240711
Depth		2.8-3	3.1-3.3	3.4-3.6	-
Date Sampled		11/07/2024	11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Date analysed	-	30/07/2024	30/07/2024	30/07/2024	30/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50
Surrogate o-Terphenyl	%	92	90	88	87

PAHs in Soil						
Our Reference		356782-A-24	356782-A-28	356782-A-29	356782-A-31	356782-A-68
Your Reference	UNITS	TP208	TP208	TP209	TP209	TP216
Depth		0-0.2	2.8-3	0-0.2	1.5-1.7	0.5-0.7
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Date analysed	-	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	79	79	76	79	76

PAHs in Soil					
Our Reference		356782-A-73	356782-A-112	356782-A-113	356782-A-136
Your Reference	UNITS	TP216	TP223	TP223	BD1/20240711
Depth		2.8-3	3.1-3.3	3.4-3.6	-
Date Sampled		11/07/2024	11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Date analysed	-	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	72	78	78	79

Acid Extractable metals in soil						
Our Reference		356782-A-24	356782-A-28	356782-A-29	356782-A-31	356782-A-68
Your Reference	UNITS	TP208	TP208	TP209	TP209	TP216
Depth		0-0.2	2.8-3	0-0.2	1.5-1.7	0.5-0.7
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Date analysed	-	30/07/2024	30/07/2024	30/07/2024	30/07/2024	30/07/2024
Arsenic	mg/kg	7	7	10	8	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	18	20	20	16
Copper	mg/kg	9	5	12	9	18
Lead	mg/kg	15	21	19	18	14
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	6	3	8	8	11
Zinc	mg/kg	26	10	23	22	31

Acid Extractable metals in soil					
Our Reference		356782-A-73	356782-A-112	356782-A-113	356782-A-136
Your Reference	UNITS	TP216	TP223	TP223	BD1/20240711
Depth		2.8-3	3.1-3.3	3.4-3.6	-
Date Sampled		11/07/2024	11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Date analysed	-	30/07/2024	30/07/2024	30/07/2024	30/07/2024
Arsenic	mg/kg	<4	7	5	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	9	12	12	11
Copper	mg/kg	10	19	16	14
Lead	mg/kg	8	13	9	8
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	12	4	4
Zinc	mg/kg	11	40	18	15

Moisture						
Our Reference		356782-A-24	356782-A-28	356782-A-29	356782-A-31	356782-A-32
Your Reference	UNITS	TP208	TP208	TP209	TP209	TP209
Depth		0-0.2	2.8-3	0-0.2	1.5-1.7	2.5-2.7
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Date analysed	-	30/07/2024	30/07/2024	30/07/2024	30/07/2024	30/07/2024
Moisture	%	18	13	14	17	22

Moisture						
Our Reference		356782-A-68	356782-A-73	356782-A-112	356782-A-113	356782-A-136
Your Reference	UNITS	TP216	TP216	TP223	TP223	BD1/20240711
Depth		0.5-0.7	2.8-3	3.1-3.3	3.4-3.6	-
Date Sampled		11/07/2024	11/07/2024	11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	29/07/2024	29/07/2024	29/07/2024	29/07/2024	29/07/2024
Date analysed	-	30/07/2024	30/07/2024	30/07/2024	30/07/2024	30/07/2024
Moisture	%	14	14	15	17	5.2

Misc Inorg - Soil						
Our Reference		356782-A-24	356782-A-28	356782-A-29	356782-A-31	356782-A-68
Your Reference	UNITS	TP208	TP208	TP209	TP209	TP216
Depth		0-0.2	2.8-3	0-0.2	1.5-1.7	0.5-0.7
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	30/07/2024	30/07/2024	30/07/2024	30/07/2024	30/07/2024
Date analysed	-	30/07/2024	30/07/2024	30/07/2024	30/07/2024	30/07/2024
pH 1:5 soil:water	pH Units	6.3	6.5	6.2	6.4	8.4
Electrical Conductivity 1:5 soil:water	µS/cm	91	80	130	100	460

Misc Inorg - Soil				
Our Reference		356782-A-73	356782-A-112	356782-A-113
Your Reference	UNITS	TP216	TP223	TP223
Depth		2.8-3	3.1-3.3	3.4-3.6
Date Sampled		11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil
Date prepared	-	30/07/2024	30/07/2024	30/07/2024
Date analysed	-	30/07/2024	30/07/2024	30/07/2024
pH 1:5 soil:water	pH Units	5.1	5.2	4.7
Electrical Conductivity 1:5 soil:water	µS/cm	200	310	190

CEC		
Our Reference		356782-A-31
Your Reference	UNITS	TP209
Depth		1.5-1.7
Date Sampled		16/07/2024
Type of sample		Soil
Date prepared	-	31/07/2024
Date analysed	-	31/07/2024
Exchangeable Ca	meq/100g	2.9
Exchangeable K	meq/100g	0.4
Exchangeable Mg	meq/100g	3.7
Exchangeable Na	meq/100g	0.3
Cation Exchange Capacity	meq/100g	7.3

Asbestos ID - soils NEPM						
Our Reference		356782-A-22	356782-A-23	356782-A-29	356782-A-35	356782-A-37
Your Reference	UNITS	TP207	TP207	TP209	TP210	TP210
Depth		1-1.2	2-2.2	0-0.2	1-1.2	2.7-2.9
Date Sampled		16/07/2024	16/07/2024	16/07/2024	16/07/2024	16/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	01/08/2024	01/08/2024	01/08/2024	01/08/2024	01/08/2024
Sample mass tested	g	508.51	497.54	616.37	512.3	808.25
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356782-A-84	356782-A-114	356782-A-115	356782-A-120	356782-A-122
Your Reference	UNITS	TP218	TP224	TP224	TP225	TP225
Depth		1-1.2	0-0.2	0.5-0.7	0.7-0.9	1.9-2.1
Date Sampled		12/07/2024	12/07/2024	12/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	01/08/2024	01/08/2024	01/08/2024	01/08/2024	01/08/2024
Sample mass tested	g	668.15	659.28	826.51	653.73	753.59
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. NOTE#1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF relative to the sample mass tested) NOTE#2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-020	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-OES analytical finish.
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.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: sTPH in Soil (C10-C40)-Silica						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date extracted	-			29/07/2024	32	29/07/2024	29/07/2024		29/07/2024	[NT]
Date analysed	-			30/07/2024	32	30/07/2024	30/07/2024		30/07/2024	[NT]
TPH C_{10} - C_{14}	mg/kg	50	Org-020	<50	32	<50	<50	0	110	[NT]
TPH C_{15} - C_{28}	mg/kg	100	Org-020	<100	32	<100	<100	0	110	[NT]
TPH C_{29} - C_{36}	mg/kg	100	Org-020	<100	32	<100	<100	0	117	[NT]
TPH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	32	<50	<50	0	110	[NT]
TPH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	32	<100	<100	0	110	[NT]
TPH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	32	<100	<100	0	117	[NT]
Surrogate 1-Chlorooctadecane	%		Org-020	71	32	85	86	1	99	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date extracted	-			29/07/2024	24	29/07/2024	29/07/2024		29/07/2024	[NT]
Date analysed	-			30/07/2024	24	30/07/2024	30/07/2024		30/07/2024	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	24	<25	<25	0	104	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	24	<25	<25	0	104	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	24	<0.2	<0.2	0	107	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	24	<0.5	<0.5	0	103	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	24	<1	<1	0	102	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	24	<2	<2	0	105	[NT]
o-Xylene	mg/kg	1	Org-023	<1	24	<1	<1	0	104	[NT]
Naphthalene	mg/kg	1	Org-023	<1	24	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	93	24	101	104	3	100	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date extracted	-			29/07/2024	24	29/07/2024	29/07/2024		29/07/2024	[NT]
Date analysed	-			30/07/2024	24	30/07/2024	30/07/2024		30/07/2024	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	24	<50	<50	0	106	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	24	<100	<100	0	103	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	24	<100	<100	0	100	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	24	<50	<50	0	106	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	24	<100	<100	0	103	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	24	<100	<100	0	100	[NT]
Surrogate o-Terphenyl	%		Org-020	91	24	92	96	4	104	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date extracted	-			29/07/2024	24	29/07/2024	29/07/2024		29/07/2024	[NT]
Date analysed	-			29/07/2024	24	29/07/2024	29/07/2024		29/07/2024	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	82	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	82	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	90	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	84	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	70	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	74	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	76	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	24	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	24	<0.05	<0.05	0	70	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	24	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	84	24	79	80	1	87	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date prepared	-			29/07/2024	24	29/07/2024	29/07/2024		29/07/2024	[NT]
Date analysed	-			30/07/2024	24	30/07/2024	30/07/2024		30/07/2024	[NT]
Arsenic	mg/kg	4	Metals-020	<4	24	7	9	25	101	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	24	<0.4	<0.4	0	94	[NT]
Chromium	mg/kg	1	Metals-020	<1	24	16	19	17	92	[NT]
Copper	mg/kg	1	Metals-020	<1	24	9	12	29	89	[NT]
Lead	mg/kg	1	Metals-020	<1	24	15	18	18	94	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	24	<0.1	<0.1	0	98	[NT]
Nickel	mg/kg	1	Metals-020	<1	24	6	7	15	94	[NT]
Zinc	mg/kg	1	Metals-020	<1	24	26	38	38	97	[NT]

QUALITY CONTROL: Misc Inorg - Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-9	[NT]
Date prepared	-			30/07/2024	24	30/07/2024	30/07/2024		30/07/2024	[NT]
Date analysed	-			30/07/2024	24	30/07/2024	30/07/2024		30/07/2024	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	24	6.3	6.3	0	100	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	24	91	86	6	100	[NT]

QUALITY CONTROL: CEC					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			31/07/2024	[NT]	[NT]	[NT]	[NT]	31/07/2024	[NT]
Date analysed	-			31/07/2024	[NT]	[NT]	[NT]	[NT]	31/07/2024	[NT]
Exchangeable Ca	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Exchangeable K	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Exchangeable Mg	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Exchangeable Na	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

pH/EC was analysed outside of recommended holding time

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	207476.06 Erskine Park (Stage 1)
Envirolab Reference	356782-A
Date Sample Received	17/07/2024
Date Instructions Received	25/07/2024
Date Results Expected to be Reported	01/08/2024

Sample Condition

Samples received in appropriate condition for analysis	Holding time exceedance
No. of Samples Provided	Additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	12
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Holding time exceedance pH/EC

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

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	sTPH in Soil (C10-C40)-Silica	svTRH (C10-C40) in Soil Pre Clean Up	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Acid Extractable metalsin soil	Misc Inorg - Soil	CEC	Asbestos ID - soils NEPM	On Hold
TP201-0-0.2										✓
TP201-0.3-0.5										✓
TP201-0.8-1										✓
TP202-0-0.2										✓
TP202-0.4-0.5										✓
TP202-0.9-1.1										✓
TP203-0-0.2										✓
TP203-0.4-0.6										✓
TP203-0.9-1.1										✓
TP204-0-0.05										✓
TP204-0.1-0.3										✓
TP204-0.6-0.8										✓
TP205-0-0.2										✓
TP205-0.3-0.5										✓
TP205-0.8-1										✓
TP206-0-0.2										✓
TP206-0.5-0.7										✓
TP206-0.8-1										✓
TP206-1.2-1.4										✓
TP207-0-0.2										✓
TP207-0.5-0.7										✓
TP207-1-1.2									✓	
TP207-2-2.2									✓	
TP208-0-0.2			✓	✓	✓	✓	✓			
TP208-0.5-0.7										✓
TP208-0.9-1.1										✓
TP208-1.9-2.1										✓
TP208-2.8-3			✓	✓	✓	✓	✓			
TP209-0-0.2			✓	✓	✓	✓	✓		✓	
TP209-0.5-0.7										✓
TP209-1.5-1.7	✓	✓	✓	✓	✓	✓	✓	✓		
TP209-2.5-2.7	✓	✓								

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Sample ID	sTPH in Soil (C10-C40)-Silica	svTRH (C10-C40) in Soil Pre Clean Up	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Acid Extractable metalsin soil	Misc Inorg - Soil	CEC	Asbestos ID - soils NEPM	On Hold
TP210-0-0.2										✓
TP210-0.5-0.7										✓
TP210-1-1.2									✓	
TP210-1.7-1.9										✓
TP210-2.7-2.9									✓	
TP210-3.3-3.5										✓
TP211-0-0.2										✓
TP211-0.5-0.7										✓
TP211-0.9-1.1										✓
TP211-1.2-1.35										✓
TP211-1.4-1.6										✓
TP211-1.8-2										✓
TP212-0-0.2										✓
TP212-0.5-0.7										✓
TP212-1-1.2										✓
TP212-2-2.2										✓
TP212-2.4-2.6										✓
TP212-2.8-3										✓
TP213-0-0.2										✓
TP213-0.3-0.5										✓
TP213-0.6-0.8										✓
TP213-0.8-0.9										✓
TP213-1-1.2										✓
TP213-1.4-1.6										✓
TP214-0-0.2										✓
TP214-0.4-0.6										✓
TP214-0.9-1.1										✓
TP214-1.9-2.1										✓
TP214-2.8-3										✓
TP214-3.1-3.3										✓
TP215-0-0.2										✓
TP215-0.5-0.7										✓

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Sample ID	sTPH in Soil (C10-C40)-Silica	svTRH (C10-C40) in Soil Pre Clean Up	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Acid Extractable metalsin soil	Misc Inorg - Soil	CEC	Asbestos ID - soils NEPM	On Hold
TP215-1.1-0.13										✓
TP215-1.5-1.7										✓
TP216-0-0.2										✓
TP216-0.5-0.7			✓	✓	✓	✓	✓			
TP216-0.8-1										✓
TP216-1.3-1.5										✓
TP216-1.8-2										✓
TP216-2.4-2.6										✓
TP216-2.8-3			✓	✓	✓	✓	✓			
TP216-3.2-3.4										✓
TP217-0-0.2										✓
TP217-0.4-0.6										✓
TP217-0.9-1.1										✓
TP217-1.7-1.9										✓
TP217-2.15-2.35										✓
TP217-2.4-2.6										✓
TP217-2.8-3										✓
TP218-0-0.2										✓
TP218-0.5-0.7										✓
TP218-1-1.2									✓	
TP218-1.3-1.5										✓
TP218-1.6-1.8										✓
TP219-0-0.2										✓
TP219-0.5-0.7										✓
TP219-0.9-1.1										✓
TP219-1.6-1.8										✓
TP219-2.1-2.3										✓
TP219-2.4-2.6										✓
TP220-0-0.2										✓
TP220-0.4-0.6										✓
TP220-0.9-1.1										✓
TP221-0-0.2										✓

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Sample ID	sTPH in Soil (C10-C40)-Silica	svTRH (C10-C40) in Soil Pre Clean Up	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Acid Extractable metalsin soil	Misc Inorg - Soil	CEC	Asbestos ID - soils NEPM	On Hold
TP221-0.5-0.7										✓
TP221-1.25-1.35										✓
TP221-1.4-1.6										✓
TP221-1.8-2										✓
TP222-0-0.2										✓
TP222-0.3-0.5										✓
TP222-0.8-1										✓
TP222-1.8-1.9										✓
TP222-2.3-2.5										✓
TP222-2.6-2.8										✓
TP223-0-0.2										✓
TP223-0.3-0.5										✓
TP223-0.8-1										✓
TP223-1.8-2										✓
TP223-2.8-3										✓
TP223-3.1-3.3			✓	✓	✓	✓	✓			
TP223-3.4-3.6			✓	✓	✓	✓	✓			
TP224-0-0.2									✓	
TP224-0.5-0.7									✓	
TP224-0.8-1										✓
TP224-1.2-1.4										✓
TP225-0-0.2										✓
TP225-0.5-0.7										✓
TP225-0.7-0.9									✓	
TP225-1-1.2										✓
TP225-1.9-2.1									✓	
TP225-2.2-2.4										✓
TP225-3-3.2										✓
TP226-0-0.2										✓
TP226-0.5-0.7										✓
TP226-1-1.2										✓
TP227-0-0.2										✓

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Sample ID	sTPH in Soil (C10-C40)-Silica	svTRH (C10-C40) in Soil Pre Clean Up	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Acid Extractable metalsin soil	Misc Inorg - Soil	CEC	Asbestos ID - soils NEPM	On Hold
TP227-0.5-0.7										✓
TP227-1-1.2										✓
TP227-1.8-2										✓
TP227-2.1-2.3										✓
TP227-2.4-2.6										✓
SS1-0-0.2										✓
SS2-0-0.2										✓
BD1/20240711			✓	✓	✓	✓				
BD2/20240711										✓
BD3/20240711										✓
BD4/20240711										✓
BD5/20240711										✓
BD1/20240712										✓
BD2/20240712										✓
BD3/20240712										✓
BD4/20240712										✓
BD5/20240712										✓
BD6/20240712										✓
TS-120724										✓
TB-120724										✓
RINS-120724										✓
TP225-2.5-2.7										✓
TP201 - [TRIPLICATE]-0-0.2										✓
TP216 - [TRIPLICATE]-0-0.2										✓
TP226 - [TRIPLICATE]-0-0.2										✓

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 356782-B

Client Details

Client	Douglas Partners Pty Ltd
Attention	Patrick Johansson
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**207476.06 Erskine Park (Satge 1)**
Number of Samples	Additional analysis
Date samples received	17/07/2024
Date completed instructions received	02/08/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	09/08/2024
Date of Issue	09/08/2024

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Results Approved By
Amanda Chui, LC/Air Toxics Supervisor

Authorised By
Nancy Zhang, Laboratory Manager

PFAS in TCLP Short					
Our Reference		356782-B-7	356782-B-23	356782-B-104	356782-B-130
Your Reference	UNITS	TP203	TP207	TP222	TP227
Depth		0-0.2	2-2.2	1.8-1.9	1-1.2
Date Sampled		12/07/2024	16/07/2024	16/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	07/08/2024	07/08/2024	07/08/2024	07/08/2024
Date analysed	-	07/08/2024	07/08/2024	07/08/2024	07/08/2024
pH of soil for fluid# determ.	pH units	5.9	6.3	6.0	5.6
pH of soil TCLP (after HCl)	pH units	1.9	1.9	1.9	1.9
Extraction fluid used		1	1	1	1
pH of final Leachate	pH units	4.9	4.9	4.9	4.9
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	<0.01	<0.01	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01	<0.01	<0.01	<0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01	<0.01	<0.01	<0.01
6:2 FTS	µg/L	<0.01	<0.01	<0.01	<0.01
8:2 FTS	µg/L	<0.02	<0.02	<0.02	<0.02
Surrogate $^{13}C_8$ *PFOS*	%	104	105	103	102
Surrogate $^{13}C_2$ *PFOA*	%	102	98	101	103
Extracted ISTD $^{18}O_2$ *PFHxS*	%	88	87	91	89
Extracted ISTD $^{13}C_4$ *PFOS*	%	91	86	87	85
Extracted ISTD $^{13}C_4$ *PFOA*	%	98	102	97	98
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	100	103	103	105
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	124	122	108	110
Total Positive PFHxS & PFOS	µg/L	<0.01	<0.01	<0.01	<0.01
Total Positive PFOS & PFOA	µg/L	<0.01	<0.01	<0.01	<0.01
Total Positive PFAS	µg/L	<0.01	<0.01	<0.01	<0.01

Method ID	Methodology Summary
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439. Please note that the mass used may be scaled down from default based on sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
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: PFAS in TCLP Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			07/08/2024	104	07/08/2024	07/08/2024		07/08/2024	[NT]
Date analysed	-			07/08/2024	104	07/08/2024	07/08/2024		07/08/2024	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029	<0.01	104	<0.01	<0.01	0	104	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	<0.01	104	<0.01	<0.01	0	97	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	104	<0.01	<0.01	0	99	[NT]
6:2 FTS	µg/L	0.01	Org-029	<0.01	104	<0.01	<0.01	0	99	[NT]
8:2 FTS	µg/L	0.02	Org-029	<0.02	104	<0.02	<0.02	0	104	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	102	104	103	104	1	99	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	103	104	101	104	3	100	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	96	104	91	87	4	88	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	92	104	87	89	2	89	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	100	104	97	98	1	92	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	103	104	103	107	4	85	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	120	104	108	118	9	114	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

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Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	Patrick Johansson

Sample Login Details

Your reference	207476.06 Erskine Park (Satge 1)
Envirolab Reference	356782-B
Date Sample Received	17/07/2024
Date Instructions Received	02/08/2024
Date Results Expected to be Reported	09/08/2024

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	Additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	12
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	PFAS in TCLP Short	On Hold
TP201-0-0.2		✓
TP201-0.3-0.5		✓
TP201-0.8-1		✓
TP202-0-0.2		✓
TP202-0.4-0.5		✓
TP202-0.9-1.1		✓
TP203-0-0.2	✓	
TP203-0.4-0.6		✓
TP203-0.9-1.1		✓
TP204-0-0.05		✓
TP204-0.1-0.3		✓
TP204-0.6-0.8		✓
TP205-0-0.2		✓
TP205-0.3-0.5		✓
TP205-0.8-1		✓
TP206-0-0.2		✓
TP206-0.5-0.7		✓
TP206-0.8-1		✓
TP206-1.2-1.4		✓
TP207-0-0.2		✓
TP207-0.5-0.7		✓
TP207-1-1.2		✓
TP207-2-2.2	✓	
TP208-0-0.2		✓
TP208-0.5-0.7		✓
TP208-0.9-1.1		✓
TP208-1.9-2.1		✓
TP208-2.8-3		✓
TP209-0-0.2		✓
TP209-0.5-0.7		✓
TP209-1.5-1.7		✓
TP209-2.5-2.7		✓

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Sample ID	PFAS in TCLP Short	On Hold
TP210-0-0.2		✓
TP210-0.5-0.7		✓
TP210-1-1.2		✓
TP210-1.7-1.9		✓
TP210-2.7-2.9		✓
TP210-3.3-3.5		✓
TP211-0-0.2		✓
TP211-0.5-0.7		✓
TP211-0.9-1.1		✓
TP211-1.2-1.35		✓
TP211-1.4-1.6		✓
TP211-1.8-2		✓
TP212-0-0.2		✓
TP212-0.5-0.7		✓
TP212-1-1.2		✓
TP212-2-2.2		✓
TP212-2.4-2.6		✓
TP212-2.8-3		✓
TP213-0-0.2		✓
TP213-0.3-0.5		✓
TP213-0.6-0.8		✓
TP213-0.8-0.9		✓
TP213-1-1.2		✓
TP213-1.4-1.6		✓
TP214-0-0.2		✓
TP214-0.4-0.6		✓
TP214-0.9-1.1		✓
TP214-1.9-2.1		✓
TP214-2.8-3		✓
TP214-3.1-3.3		✓
TP215-0-0.2		✓
TP215-0.5-0.7		✓

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Sample ID	PFAS in TCLP Short	On Hold
TP215-1.1-0.13		✓
TP215-1.5-1.7		✓
TP216-0-0.2		✓
TP216-0.5-0.7		✓
TP216-0.8-1		✓
TP216-1.3-1.5		✓
TP216-1.8-2		✓
TP216-2.4-2.6		✓
TP216-2.8-3		✓
TP216-3.2-3.4		✓
TP217-0-0.2		✓
TP217-0.4-0.6		✓
TP217-0.9-1.1		✓
TP217-1.7-1.9		✓
TP217-2.15-2.35		✓
TP217-2.4-2.6		✓
TP217-2.8-3		✓
TP218-0-0.2		✓
TP218-0.5-0.7		✓
TP218-1-1.2		✓
TP218-1.3-1.5		✓
TP218-1.6-1.8		✓
TP219-0-0.2		✓
TP219-0.5-0.7		✓
TP219-0.9-1.1		✓
TP219-1.6-1.8		✓
TP219-2.1-2.3		✓
TP219-2.4-2.6		✓
TP220-0-0.2		✓
TP220-0.4-0.6		✓
TP220-0.9-1.1		✓
TP221-0-0.2		✓

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Sample ID	PFAS in TCLP Short	On Hold
TP221-0.5-0.7		✓
TP221-1.25-1.35		✓
TP221-1.4-1.6		✓
TP221-1.8-2		✓
TP222-0-0.2		✓
TP222-0.3-0.5		✓
TP222-0.8-1		✓
TP222-1.8-1.9	✓	
TP222-2.3-2.5		✓
TP222-2.6-2.8		✓
TP223-0-0.2		✓
TP223-0.3-0.5		✓
TP223-0.8-1		✓
TP223-1.8-2		✓
TP223-2.8-3		✓
TP223-3.1-3.3		✓
TP223-3.4-3.6		✓
TP224-0-0.2		✓
TP224-0.5-0.7		✓
TP224-0.8-1		✓
TP224-1.2-1.4		✓
TP225-0-0.2		✓
TP225-0.5-0.7		✓
TP225-0.7-0.9		✓
TP225-1-1.2		✓
TP225-1.9-2.1		✓
TP225-2.2-2.4		✓
TP225-3-3.2		✓
TP226-0-0.2		✓
TP226-0.5-0.7		✓
TP226-1-1.2		✓
TP227-0-0.2		✓

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Sample ID	PFAS in TCLP Short	On Hold
TP227-0.5-0.7		✓
TP227-1-1.2	✓	
TP227-1.8-2		✓
TP227-2.1-2.3		✓
TP227-2.4-2.6		✓
SS1-0-0.2		✓
SS2-0-0.2		✓
BD1/20240711		✓
BD2/20240711		✓
BD3/20240711		✓
BD4/20240711		✓
BD5/20240711		✓
BD1/20240712		✓
BD2/20240712		✓
BD3/20240712		✓
BD4/20240712		✓
BD5/20240712		✓
BD6/20240712		✓
TS-120724		✓
TB-120724		✓
RINS-120724		✓
TP225-2.5-2.7		✓
TP201 - [TRIPLICATE]-0-0.2		✓
TP216 - [TRIPLICATE]-0-0.2		✓
TP226 - [TRIPLICATE]-0-0.2		✓

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 356782-C

Client Details

Client	Douglas Partners Pty Ltd
Attention	Patrick Johansson
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**207476.06 Erskine Park (Satge 1)**
Number of Samples	Additional analysis 1 sample
Date samples received	17/07/2024
Date completed instructions received	19/08/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	21/08/2024
Date of Issue	21/08/2024

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean, Sneha Shakya
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Tabitha Roberts, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

Acid Extractable metals in soil		
Our Reference		356782-C-19
Your Reference	UNITS	TP206
Depth		1.2-1.4
Date Sampled		12/07/2024
Type of sample		Soil
Date prepared	-	21/08/2024
Date analysed	-	21/08/2024
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	14
Copper	mg/kg	57
Lead	mg/kg	23
Mercury	mg/kg	<0.1
Nickel	mg/kg	53
Zinc	mg/kg	170

Moisture		
Our Reference		356782-C-19
Your Reference	UNITS	TP206
Depth		1.2-1.4
Date Sampled		12/07/2024
Type of sample		Soil
Date prepared	-	21/08/2024
Date analysed	-	21/08/2024
Moisture	%	13

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			21/08/2024	[NT]	[NT]	[NT]	[NT]	21/08/2024	[NT]
Date analysed	-			21/08/2024	[NT]	[NT]	[NT]	[NT]	21/08/2024	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	125	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	107	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]

Result Definitions

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>	Greater than
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In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Services Pty Ltd
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customerservice@envirolab.com.au
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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	Patrick Johansson

Sample Login Details

Your reference	207476.06 Erskine Park (Satge 1)
Envirolab Reference	356782-C
Date Sample Received	17/07/2024
Date Instructions Received	19/08/2024
Date Results Expected to be Reported	21/08/2024

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	Additional analysis 1 sample
Turnaround Time Requested	2 days
Temperature on Receipt (°C)	12
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	Acid Extractable metals in soil	On Hold
TP201-0-0.2		✓
TP201-0.3-0.5		✓
TP201-0.8-1		✓
TP202-0-0.2		✓
TP202-0.4-0.5		✓
TP202-0.9-1.1		✓
TP203-0-0.2		✓
TP203-0.4-0.6		✓
TP203-0.9-1.1		✓
TP204-0-0.05		✓
TP204-0.1-0.3		✓
TP204-0.6-0.8		✓
TP205-0-0.2		✓
TP205-0.3-0.5		✓
TP205-0.8-1		✓
TP206-0-0.2		✓
TP206-0.5-0.7		✓
TP206-0.8-1		✓
TP206-1.2-1.4	✓	
TP207-0-0.2		✓
TP207-0.5-0.7		✓
TP207-1-1.2		✓
TP207-2-2.2		✓
TP208-0-0.2		✓
TP208-0.5-0.7		✓
TP208-0.9-1.1		✓
TP208-1.9-2.1		✓
TP208-2.8-3		✓
TP209-0-0.2		✓
TP209-0.5-0.7		✓
TP209-1.5-1.7		✓
TP209-2.5-2.7		✓

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Sample ID	Acid Extractable metals in soil	On Hold
TP210-0-0.2		✓
TP210-0.5-0.7		✓
TP210-1-1.2		✓
TP210-1.7-1.9		✓
TP210-2.7-2.9		✓
TP210-3.3-3.5		✓
TP211-0-0.2		✓
TP211-0.5-0.7		✓
TP211-0.9-1.1		✓
TP211-1.2-1.35		✓
TP211-1.4-1.6		✓
TP211-1.8-2		✓
TP212-0-0.2		✓
TP212-0.5-0.7		✓
TP212-1-1.2		✓
TP212-2-2.2		✓
TP212-2.4-2.6		✓
TP212-2.8-3		✓
TP213-0-0.2		✓
TP213-0.3-0.5		✓
TP213-0.6-0.8		✓
TP213-0.8-0.9		✓
TP213-1-1.2		✓
TP213-1.4-1.6		✓
TP214-0-0.2		✓
TP214-0.4-0.6		✓
TP214-0.9-1.1		✓
TP214-1.9-2.1		✓
TP214-2.8-3		✓
TP214-3.1-3.3		✓
TP215-0-0.2		✓
TP215-0.5-0.7		✓

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Sample ID	Acid Extractable metals in soil	On Hold
TP215-1.1-0.13		✓
TP215-1.5-1.7		✓
TP216-0-0.2		✓
TP216-0.5-0.7		✓
TP216-0.8-1		✓
TP216-1.3-1.5		✓
TP216-1.8-2		✓
TP216-2.4-2.6		✓
TP216-2.8-3		✓
TP216-3.2-3.4		✓
TP217-0-0.2		✓
TP217-0.4-0.6		✓
TP217-0.9-1.1		✓
TP217-1.7-1.9		✓
TP217-2.15-2.35		✓
TP217-2.4-2.6		✓
TP217-2.8-3		✓
TP218-0-0.2		✓
TP218-0.5-0.7		✓
TP218-1-1.2		✓
TP218-1.3-1.5		✓
TP218-1.6-1.8		✓
TP219-0-0.2		✓
TP219-0.5-0.7		✓
TP219-0.9-1.1		✓
TP219-1.6-1.8		✓
TP219-2.1-2.3		✓
TP219-2.4-2.6		✓
TP220-0-0.2		✓
TP220-0.4-0.6		✓
TP220-0.9-1.1		✓
TP221-0-0.2		✓

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Sample ID	Acid Extractable metals in soil	On Hold
TP221-0.5-0.7		✓
TP221-1.25-1.35		✓
TP221-1.4-1.6		✓
TP221-1.8-2		✓
TP222-0-0.2		✓
TP222-0.3-0.5		✓
TP222-0.8-1		✓
TP222-1.8-1.9		✓
TP222-2.3-2.5		✓
TP222-2.6-2.8		✓
TP223-0-0.2		✓
TP223-0.3-0.5		✓
TP223-0.8-1		✓
TP223-1.8-2		✓
TP223-2.8-3		✓
TP223-3.1-3.3		✓
TP223-3.4-3.6		✓
TP224-0-0.2		✓
TP224-0.5-0.7		✓
TP224-0.8-1		✓
TP224-1.2-1.4		✓
TP225-0-0.2		✓
TP225-0.5-0.7		✓
TP225-0.7-0.9		✓
TP225-1-1.2		✓
TP225-1.9-2.1		✓
TP225-2.2-2.4		✓
TP225-3-3.2		✓
TP226-0-0.2		✓
TP226-0.5-0.7		✓
TP226-1-1.2		✓
TP227-0-0.2		✓

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Sample ID	Acid Extractable metalsin soil	On Hold
TP227-0.5-0.7		✓
TP227-1-1.2		✓
TP227-1.8-2		✓
TP227-2.1-2.3		✓
TP227-2.4-2.6		✓
SS1-0-0.2		✓
SS2-0-0.2		✓
BD1/20240711		✓
BD2/20240711		✓
BD3/20240711		✓
BD4/20240711		✓
BD5/20240711		✓
BD1/20240712		✓
BD2/20240712		✓
BD3/20240712		✓
BD4/20240712		✓
BD5/20240712		✓
BD6/20240712		✓
TS-120724		✓
TB-120724		✓
RINS-120724		✓
TP225-2.5-2.7		✓
TP201 - [TRIPLICATE]-0-0.2		✓
TP216 - [TRIPLICATE]-0-0.2		✓
TP226 - [TRIPLICATE]-0-0.2		✓

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.

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	207476.06	**Suburb:**	Erskine Park (TP228)	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**		**Sampler:** PJ	12 Ashley St, Chatswood NSW 2067
Email:	David.Holden@douglaspartners.com.au; patrick.johansson@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.cor
Prior Storage	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☑ No ☐ Yes, handle, transport, store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - Glass Jar P - PFAS B - AFFA BAG	Analytes: Combo 3AN	AF/FA	Hold									Notes/ Preservation/ Additional Requirements
1	TP228	0	0.2	11-07-24	S	G,B	x											
2	TP228	0.5	0.7	11-07-24	S	G,B		x										
3	TP228	1	1.2	11-07-24	S	G,B	x											
4	TP228	1.5	1.7	11-07-24	S	G			x									
5	TP228	1.8	2	11-07-24	S	G			x									

Metals to analyse:	8ha			**LAB RECEIPT**	356817
Number of samples in container:		**Transported to laboratory by:**	PJ	**Lab Ref. No:**	
Send results to:	Douglas Partners Pty Ltd			**Received by:**	
Address:	96 Hermitage Road, West Ryde NSW 211	**Phone:**	9809 0666	**Date & Tim**	18/7/24
Relinquished by:	PJ	**Date:**	17-07-24	**Signed:**	

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CERTIFICATE OF ANALYSIS 356817

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**207476.06, Erskine Park (TP228)**
Number of Samples	5 Soil
Date samples received	17/07/2024
Date completed instructions received	17/07/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	24/07/2024
Date of Issue	24/07/2024

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Dragana Tomas, Senior Chemist
Loren Bardwell, Development Chemist
Lucy Zhu, Asbestos Supervisor

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		356817-1	356817-3
Your Reference	UNITS	TP228	TP228
Depth		0-0.2	1-1.2
Date Sampled		11/07/2024	11/07/2024
Type of sample		Soil	Soil
Date extracted	-	18/07/2024	22/07/2024
Date analysed	-	22/07/2024	23/07/2024
TRH C_6 - C_9	mg/kg	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
Naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	107

svTRH (C10-C40) in Soil			
Our Reference		356817-1	356817-3
Your Reference	UNITS	TP228	TP228
Depth		0-0.2	1-1.2
Date Sampled		11/07/2024	11/07/2024
Type of sample		Soil	Soil
Date extracted	-	18/07/2024	18/07/2024
Date analysed	-	19/07/2024	23/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surrogate o-Terphenyl	%	80	80

PAHs in Soil			
Our Reference		356817-1	356817-3
Your Reference	UNITS	TP228	TP228
Depth		0-0.2	1-1.2
Date Sampled		11/07/2024	11/07/2024
Type of sample		Soil	Soil
Date extracted	-	18/07/2024	18/07/2024
Date analysed	-	18/07/2024	22/07/2024
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	93	93

Acid Extractable metals in soil			
Our Reference		356817-1	356817-3
Your Reference	UNITS	TP228	TP228
Depth		0-0.2	1-1.2
Date Sampled		11/07/2024	11/07/2024
Type of sample		Soil	Soil
Date prepared	-	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024
Arsenic	mg/kg	6	<4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	4	8
Copper	mg/kg	5	22
Lead	mg/kg	9	12
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	<1	9
Zinc	mg/kg	3	31

Moisture			
Our Reference		356817-1	356817-3
Your Reference	UNITS	TP228	TP228
Depth		0-0.2	1-1.2
Date Sampled		11/07/2024	11/07/2024
Type of sample		Soil	Soil
Date prepared	-	18/07/2024	18/07/2024
Date analysed	-	19/07/2024	19/07/2024
Moisture	%	18	15

Asbestos ID - soils NEPM				
Our Reference		356817-1	356817-2	356817-3
Your Reference	UNITS	TP228	TP228	TP228
Depth		0-0.2	0.5-0.7	1-1.2
Date Sampled		11/07/2024	11/07/2024	11/07/2024
Type of sample		Soil	Soil	Soil
Date analysed	-	22/07/2024	23/07/2024	23/07/2024
Sample mass tested	g	655.12	671.13	650.57
Sample Description	-	Grey clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos#1	g/kg	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–
FA and AF Estimation*	g	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. NOTE#1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF relative to the sample mass tested) NOTE#2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.

Method ID	Methodology Summary
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			18/07/2024	[NT]	[NT]	[NT]	[NT]	18/07/2024	[NT]
Date analysed	-			22/07/2024	[NT]	[NT]	[NT]	[NT]	22/07/2024	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	92	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	92	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	95	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	89	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	89	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	93	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	108	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			18/07/2024	[NT]	[NT]	[NT]	[NT]	18/07/2024	[NT]
Date analysed	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	90	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	103	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	90	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	80	[NT]	[NT]	[NT]	[NT]	92	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			18/07/2024	[NT]	[NT]	[NT]	[NT]	18/07/2024	[NT]
Date analysed	-			18/07/2024	[NT]	[NT]	[NT]	[NT]	18/07/2024	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	78	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	74	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	95	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date prepared	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	[NT]
Date analysed	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	108	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	101	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

Envirolab Services Pty Ltd
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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	207476.06, Erskine Park (TP228)
Envirolab Reference	356817
Date Sample Received	17/07/2024
Date Instructions Received	17/07/2024
Date Results Expected to be Reported	24/07/2024

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	5 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	6
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	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	On Hold
TP228-0-0.2	✓	✓	✓	✓	✓	
TP228-0.5-0.7						✓
TP228-1-1.2						✓
TP228-1.5-1.7						✓
TP228-1.8-2						✓

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 356818

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden, Patrick Johansson
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**207476.06, Erskine Park (Stage 2)**
Number of Samples	181 Soil, 1 Water
Date samples received	17/07/2024
Date completed instructions received	17/07/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	26/07/2024
Date of Issue	26/07/2024

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean, Sneha Shakya
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Lucy Zhu, Asbestos Supervisor
Sean McAlary, Chemist (FAS)
Timothy Toll, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356818-1	356818-3	356818-12	356818-14	356818-17
Your Reference	UNITS	TP229	TP229	TP231	TP231	TP231
Depth		0-0.2	1-1.2	0-0.2	0.8-1	3-3.2
Date Sampled		16/07/2024	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	87	94	97	74	71

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356818-18	356818-20	356818-22	356818-23	356818-25
Your Reference	UNITS	TP232	TP232	TP232	TP233	TP233
Depth		0-0.2	1-1.2	1.6-1.8	0-0.2	1-1.2
Date Sampled		16/07/24	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	66	71	62	71	84

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356818-40	356818-42	356818-44	356818-48	356818-50
Your Reference	UNITS	TP235	TP236	TP236	TP237	TP237
Depth		2.2-2.4	0-0.2	0.8-1	0-0.2	0.8-1
Date Sampled		15/07/24	15/07/24	15/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	75	78	81	75	75

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356818-53	356818-54	356818-56	356818-58	356818-66
Your Reference	UNITS	TP237	TP238	TP238	TP238	TP240
Depth		3-3.2	0-0.2	0.8-1	2-2.2	0-0.2
Date Sampled		16/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	75	73	73	76	80

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356818-68	356818-72	356818-73	356818-74	356818-78
Your Reference	UNITS	TP240	TP240	TP241	TP241	TP242
Depth		0.8-1	2.7-2.9	0-0.2	0.5-0.7	0-0.2
Date Sampled		15/07/24	15/07/24	11/07/24	11/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	90	76	72	82	81

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356818-80	356818-84	356818-89	356818-96	356818-99
Your Reference	UNITS	TP242	TP243	TP243	TP245	TP245
Depth		0.8-1	0-0.2	2.2-2.4	0-0.2	1.8-2
Date Sampled		15/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	77	80	72	72	85

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356818-101	356818-102	356818-106	356818-108	356818-110
Your Reference	UNITS	TP245	TP246	TP246	TP247	TP247
Depth		2.4-2.6	0-0.2	2.1-2.3	0-0.2	0.9-1.1
Date Sampled		15/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	76	65	73	72	73

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356818-114	356818-121	356818-122	356818-124	356818-136
Your Reference	UNITS	TP247	TP249	TP249	TP249	TP251
Depth		2.6-2.8	0-0.2	0.5-0.7	1.4-1.6	0-0.2
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	65	70	95	86	82

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		356818-149	356818-152	356818-160	356818-161	356818-166
Your Reference	UNITS	TP253	TP253	SS4	SS5	BD1/20240715
Depth		0-0.2	2-2.2	0-0.2	0-0.2	-
Date Sampled		10/07/24	10/07/24	16/07/24	16/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	76	79	89	98	94

vTRH(C6-C10)/BTEXN in Soil					
Our Reference		356818-168	356818-172	356818-176	356818-177
Your Reference	UNITS	BD3/20240715	BD1/20240716	TS-160724	TB-160724
Depth		-	-	-	-
Date Sampled		15/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	<25	<25	[NA]	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	[NA]	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	[NA]	<25
Benzene	mg/kg	<0.2	<0.2	87%	<0.2
Toluene	mg/kg	<0.5	<0.5	85%	<0.5
Ethylbenzene	mg/kg	<1	<1	89%	<1
m+p-xylene	mg/kg	<2	<2	89%	<2
o-Xylene	mg/kg	<1	<1	89%	<1
Naphthalene	mg/kg	<1	<1	[NA]	<1
Total +ve Xylenes	mg/kg	<1	<1	[NA]	<1
Surrogate aaa-Trifluorotoluene	%	95	93	91	63

svTRH (C10-C40) in Soil						
Our Reference		356818-1	356818-3	356818-12	356818-14	356818-17
Your Reference	UNITS	TP229	TP229	TP231	TP231	TP231
Depth		0-0.2	1-1.2	0-0.2	0.8-1	3-3.2
Date Sampled		16/07/2024	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	69	83	84	84	85

svTRH (C10-C40) in Soil						
Our Reference		356818-18	356818-20	356818-22	356818-23	356818-25
Your Reference	UNITS	TP232	TP232	TP232	TP233	TP233
Depth		0-0.2	1-1.2	1.6-1.8	0-0.2	1-1.2
Date Sampled		16/07/24	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	20/07/2024	20/07/2024	20/07/2024	20/07/2024	20/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	84	84	85	83	83

svTRH (C10-C40) in Soil						
Our Reference		356818-40	356818-42	356818-44	356818-48	356818-50
Your Reference	UNITS	TP235	TP236	TP236	TP237	TP237
Depth		2.2-2.4	0-0.2	0.8-1	0-0.2	0.8-1
Date Sampled		15/07/24	15/07/24	15/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	20/07/2024	20/07/2024	20/07/2024	20/07/2024	20/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	83	82	82	81	82

svTRH (C10-C40) in Soil						
Our Reference		356818-53	356818-54	356818-56	356818-58	356818-66
Your Reference	UNITS	TP237	TP238	TP238	TP238	TP240
Depth		3-3.2	0-0.2	0.8-1	2-2.2	0-0.2
Date Sampled		16/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	20/07/2024	20/07/2024	20/07/2024	20/07/2024	20/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	81	87	86	87	92

svTRH (C10-C40) in Soil						
Our Reference		356818-68	356818-72	356818-73	356818-74	356818-78
Your Reference	UNITS	TP240	TP240	TP241	TP241	TP242
Depth		0.8-1	2.7-2.9	0-0.2	0.5-0.7	0-0.2
Date Sampled		15/07/24	15/07/24	11/07/24	11/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	20/07/2024	20/07/2024	20/07/2024	20/07/2024	20/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	87	85	85	91	86

svTRH (C10-C40) in Soil						
Our Reference		356818-80	356818-84	356818-89	356818-96	356818-99
Your Reference	UNITS	TP242	TP243	TP243	TP245	TP245
Depth		0.8-1	0-0.2	2.2-2.4	0-0.2	1.8-2
Date Sampled		15/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	20/07/2024	20/07/2024	20/07/2024	20/07/2024	20/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	87	86	85	86	85

svTRH (C10-C40) in Soil						
Our Reference		356818-101	356818-102	356818-106	356818-108	356818-110
Your Reference	UNITS	TP245	TP246	TP246	TP247	TP247
Depth		2.4-2.6	0-0.2	2.1-2.3	0-0.2	0.9-1.1
Date Sampled		15/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	20/07/2024	20/07/2024	20/07/2024	20/07/2024	20/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	85	85	85	85	85

svTRH (C10-C40) in Soil						
Our Reference		356818-114	356818-121	356818-122	356818-124	356818-136
Your Reference	UNITS	TP247	TP249	TP249	TP249	TP251
Depth		2.6-2.8	0-0.2	0.5-0.7	1.4-1.6	0-0.2
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	20/07/2024	20/07/2024	20/07/2024	20/07/2024	20/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	86	89	84	84	84

svTRH (C10-C40) in Soil						
Our Reference		356818-149	356818-152	356818-160	356818-161	356818-166
Your Reference	UNITS	TP253	TP253	SS4	SS5	BD1/20240715
Depth		0-0.2	2-2.2	0-0.2	0-0.2	-
Date Sampled		10/07/24	10/07/24	16/07/24	16/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	20/07/2024	20/07/2024	20/07/2024	20/07/2024	20/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	83	84	81	82	83

svTRH (C10-C40) in Soil			
Our Reference		356818-168	356818-172
Your Reference	UNITS	BD3/20240715	BD1/20240716
Depth		-	-
Date Sampled		15/07/24	16/07/24
Type of sample		Soil	Soil
Date extracted	-	19/07/2024	19/07/2024
Date analysed	-	20/07/2024	20/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surrogate o-Terphenyl	%	82	84

PAHs in Soil						
Our Reference		356818-1	356818-3	356818-12	356818-14	356818-17
Your Reference	UNITS	TP229	TP229	TP231	TP231	TP231
Depth		0-0.2	1-1.2	0-0.2	0.8-1	3-3.2
Date Sampled		16/07/2024	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	19/07/2024	22/07/2024	22/07/2024	19/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	114	114	111	112	111

PAHs in Soil						
Our Reference		356818-18	356818-20	356818-22	356818-23	356818-25
Your Reference	UNITS	TP232	TP232	TP232	TP233	TP233
Depth		0-0.2	1-1.2	1.6-1.8	0-0.2	1-1.2
Date Sampled		16/07/24	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	19/07/2024	22/07/2024	22/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	117	116	113	116	115

PAHs in Soil						
Our Reference		356818-40	356818-42	356818-44	356818-48	356818-50
Your Reference	UNITS	TP235	TP236	TP236	TP237	TP237
Depth		2.2-2.4	0-0.2	0.8-1	0-0.2	0.8-1
Date Sampled		15/07/24	15/07/24	15/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	22/07/2024	19/07/2024	22/07/2024	19/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	109	115	115	115	106

PAHs in Soil						
Our Reference		356818-53	356818-54	356818-56	356818-58	356818-66
Your Reference	UNITS	TP237	TP238	TP238	TP238	TP240
Depth		3-3.2	0-0.2	0.8-1	2-2.2	0-0.2
Date Sampled		16/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	22/07/2024	19/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	109	112	116	119	117

PAHs in Soil						
Our Reference		356818-68	356818-72	356818-73	356818-74	356818-78
Your Reference	UNITS	TP240	TP240	TP241	TP241	TP242
Depth		0.8-1	2.7-2.9	0-0.2	0.5-0.7	0-0.2
Date Sampled		15/07/24	15/07/24	11/07/24	11/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	19/07/2024	22/07/2024	19/07/2024	19/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	121	112	126	114	115

PAHs in Soil						
Our Reference		356818-80	356818-84	356818-89	356818-96	356818-99
Your Reference	UNITS	TP242	TP243	TP243	TP245	TP245
Depth		0.8-1	0-0.2	2.2-2.4	0-0.2	1.8-2
Date Sampled		15/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	22/07/2024	19/07/2024	19/07/2024	19/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	116	119	112	118	115

PAHs in Soil						
Our Reference		356818-101	356818-102	356818-106	356818-108	356818-110
Your Reference	UNITS	TP245	TP246	TP246	TP247	TP247
Depth		2.4-2.6	0-0.2	2.1-2.3	0-0.2	0.9-1.1
Date Sampled		15/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	22/07/2024	22/07/2024	19/07/2024	22/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	112	129	123	112	123

PAHs in Soil						
Our Reference		356818-114	356818-121	356818-122	356818-124	356818-136
Your Reference	UNITS	TP247	TP249	TP249	TP249	TP251
Depth		2.6-2.8	0-0.2	0.5-0.7	1.4-1.6	0-0.2
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	22/07/2024	19/07/2024	22/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	114	114	121	115	116

PAHs in Soil						
Our Reference		356818-149	356818-152	356818-160	356818-161	356818-166
Your Reference	UNITS	TP253	TP253	SS4	SS5	BD1/20240715
Depth		0-0.2	2-2.2	0-0.2	0-0.2	-
Date Sampled		10/07/24	10/07/24	16/07/24	16/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	19/07/2024	19/07/2024	19/07/2024
Naphthalene	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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	115	116	118	113	108

PAHs in Soil			
Our Reference		356818-168	356818-172
Your Reference	UNITS	BD3/20240715	BD1/20240716
Depth		-	-
Date Sampled		15/07/24	16/07/24
Type of sample		Soil	Soil
Date extracted	-	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	118	109

Organochlorine Pesticides in soil						
Our Reference		356818-1	356818-12	356818-14	356818-18	356818-23
Your Reference	UNITS	TP229	TP231	TP231	TP232	TP233
Depth		0-0.2	0-0.2	0.8-1	0-0.2	0-0.2
Date Sampled		16/07/2024	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
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
Surrogate 4-Chloro-3-NBTF	%	99	97	95	102	106

Organochlorine Pesticides in soil						
Our Reference		356818-25	356818-42	356818-48	356818-58	356818-68
Your Reference	UNITS	TP233	TP236	TP237	TP238	TP240
Depth		1-1.2	0-0.2	0-0.2	2-2.2	0.8-1
Date Sampled		16/07/24	15/07/24	16/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
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
Surrogate 4-Chloro-3-NBTF	%	101	100	100	104	104

Organochlorine Pesticides in soil						
Our Reference		356818-73	356818-84	356818-102	356818-106	356818-110
Your Reference	UNITS	TP241	TP243	TP246	TP246	TP247
Depth		0-0.2	0-0.2	0-0.2	2.1-2.3	0.9-1.1
Date Sampled		11/07/24	15/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
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
Surrogate 4-Chloro-3-NBTF	%	105	104	112	108	110

Organochlorine Pesticides in soil					
Our Reference		356818-122	356818-136	356818-149	356818-152
Your Reference	UNITS	TP249	TP251	TP253	TP253
Depth		0.5-0.7	0-0.2	0-0.2	2-2.2
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	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
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-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
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	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 +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	104	102	102	101

Organophosphorus Pesticides in Soil						
Our Reference		356818-1	356818-12	356818-14	356818-18	356818-23
Your Reference	UNITS	TP229	TP231	TP231	TP232	TP233
Depth		0-0.2	0-0.2	0.8-1	0-0.2	0-0.2
Date Sampled		16/07/2024	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	99	97	95	102	106

Organophosphorus Pesticides in Soil						
Our Reference		356818-25	356818-42	356818-48	356818-58	356818-68
Your Reference	UNITS	TP233	TP236	TP237	TP238	TP240
Depth		1-1.2	0-0.2	0-0.2	2-2.2	0.8-1
Date Sampled		16/07/24	15/07/24	16/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	101	100	100	104	104

Organophosphorus Pesticides in Soil						
Our Reference		356818-73	356818-84	356818-102	356818-106	356818-110
Your Reference	UNITS	TP241	TP243	TP246	TP246	TP247
Depth		0-0.2	0-0.2	0-0.2	2.1-2.3	0.9-1.1
Date Sampled		11/07/24	15/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	105	104	112	108	110

Organophosphorus Pesticides in Soil					
Our Reference		356818-122	356818-136	356818-149	356818-152
Your Reference	UNITS	TP249	TP251	TP253	TP253
Depth		0.5-0.7	0-0.2	0-0.2	2-2.2
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1
Mevinphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Phorate	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Disulfoton	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Parathion-Methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenthion	mg/kg	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Methidathion	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenamiphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Phosalone	mg/kg	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1
Coumaphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate 4-Chloro-3-NBTF	%	104	102	102	101

PCBs in Soil						
Our Reference		356818-1	356818-12	356818-14	356818-18	356818-23
Your Reference	UNITS	TP229	TP231	TP231	TP232	TP233
Depth		0-0.2	0-0.2	0.8-1	0-0.2	0-0.2
Date Sampled		16/07/2024	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	102	97	96	102	105

PCBs in Soil						
Our Reference		356818-25	356818-42	356818-48	356818-58	356818-68
Your Reference	UNITS	TP233	TP236	TP237	TP238	TP240
Depth		1-1.2	0-0.2	0-0.2	2-2.2	0.8-1
Date Sampled		16/07/24	15/07/24	16/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	100	100	100	104	104

PCBs in Soil						
Our Reference		356818-73	356818-84	356818-102	356818-106	356818-110
Your Reference	UNITS	TP241	TP243	TP246	TP246	TP247
Depth		0-0.2	0-0.2	0-0.2	2.1-2.3	0.9-1.1
Date Sampled		11/07/24	15/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	106	104	113	109	110

PCBs in Soil					
Our Reference		356818-122	356818-136	356818-149	356818-152
Your Reference	UNITS	TP249	TP251	TP253	TP253
Depth		0.5-0.7	0-0.2	0-0.2	2-2.2
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate 2-Fluorobiphenyl	%	104	104	102	101

Misc Soil - Inorg						
Our Reference		356818-1	356818-12	356818-14	356818-18	356818-23
Your Reference	UNITS	TP229	TP231	TP231	TP232	TP233
Depth		0-0.2	0-0.2	0.8-1	0-0.2	0-0.2
Date Sampled		16/07/2024	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		356818-25	356818-42	356818-48	356818-58	356818-68
Your Reference	UNITS	TP233	TP236	TP237	TP238	TP240
Depth		1-1.2	0-0.2	0-0.2	2-2.2	0.8-1
Date Sampled		16/07/24	15/07/24	16/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg						
Our Reference		356818-73	356818-84	356818-102	356818-106	356818-110
Your Reference	UNITS	TP241	TP243	TP246	TP246	TP247
Depth		0-0.2	0-0.2	0-0.2	2.1-2.3	0.9-1.1
Date Sampled		11/07/24	15/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg					
Our Reference		356818-122	356818-136	356818-149	356818-152
Your Reference	UNITS	TP249	TP251	TP253	TP253
Depth		0.5-0.7	0-0.2	0-0.2	2-2.2
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Date analysed	-	24/07/2024	24/07/2024	24/07/2024	24/07/2024
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5

Acid Extractable metals in soil						
Our Reference		356818-1	356818-3	356818-12	356818-14	356818-17
Your Reference	UNITS	TP229	TP229	TP231	TP231	TP231
Depth		0-0.2	1-1.2	0-0.2	0.8-1	3-3.2
Date Sampled		16/07/2024	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	6	10	7	10	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	26	17	27	16
Copper	mg/kg	6	6	10	13	19
Lead	mg/kg	12	19	15	20	10
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	4	7	7	10
Zinc	mg/kg	10	12	20	22	19

Acid Extractable metals in soil						
Our Reference		356818-18	356818-20	356818-22	356818-23	356818-25
Your Reference	UNITS	TP232	TP232	TP232	TP233	TP233
Depth		0-0.2	1-1.2	1.6-1.8	0-0.2	1-1.2
Date Sampled		16/07/24	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	9	5	5	7	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	13	14	15	13
Copper	mg/kg	21	15	18	18	5
Lead	mg/kg	21	12	9	18	9
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	8	6	10	1
Zinc	mg/kg	47	16	20	36	5

Acid Extractable metals in soil						
Our Reference		356818-40	356818-42	356818-44	356818-48	356818-50
Your Reference	UNITS	TP235	TP236	TP236	TP237	TP237
Depth		2.2-2.4	0-0.2	0.8-1	0-0.2	0.8-1
Date Sampled		15/07/24	15/07/24	15/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	<4	6	7	6	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	10	12	9	13	14
Copper	mg/kg	14	21	10	19	16
Lead	mg/kg	8	14	13	13	16
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	9	2	8	5
Zinc	mg/kg	19	28	8	24	20

Acid Extractable metals in soil						
Our Reference		356818-53	356818-54	356818-56	356818-58	356818-66
Your Reference	UNITS	TP237	TP238	TP238	TP238	TP240
Depth		3-3.2	0-0.2	0.8-1	2-2.2	0-0.2
Date Sampled		16/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	9	6	7	5	9
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	15	19	15	10
Copper	mg/kg	22	7	13	16	13
Lead	mg/kg	19	12	15	10	14
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	11	2	4	7	6
Zinc	mg/kg	32	7	12	17	20

Acid Extractable metals in soil						
Our Reference		356818-68	356818-72	356818-73	356818-74	356818-78
Your Reference	UNITS	TP240	TP240	TP241	TP241	TP242
Depth		0.8-1	2.7-2.9	0-0.2	0.5-0.7	0-0.2
Date Sampled		15/07/24	15/07/24	11/07/24	11/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	8	5	10	8	9
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	12	9	14	7
Copper	mg/kg	24	19	14	13	10
Lead	mg/kg	14	11	16	11	13
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	13	8	4	2	3
Zinc	mg/kg	33	26	16	7	12

Acid Extractable metals in soil						
Our Reference		356818-80	356818-84	356818-89	356818-96	356818-99
Your Reference	UNITS	TP242	TP243	TP243	TP245	TP245
Depth		0.8-1	0-0.2	2.2-2.4	0-0.2	1.8-2
Date Sampled		15/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	11	9	6	5	4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	10	8	18	6	9
Copper	mg/kg	11	10	20	8	8
Lead	mg/kg	12	11	16	9	11
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	1	3	8	2	5
Zinc	mg/kg	5	12	24	8	16

Acid Extractable metals in soil						
Our Reference		356818-101	356818-102	356818-106	356818-108	356818-110
Your Reference	UNITS	TP245	TP246	TP246	TP247	TP247
Depth		2.4-2.6	0-0.2	2.1-2.3	0-0.2	0.9-1.1
Date Sampled		15/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	5	<4	5	7	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	13	6	12	10	5
Copper	mg/kg	20	9	18	7	11
Lead	mg/kg	12	7	20	12	8
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	13	1	10	2	<1
Zinc	mg/kg	25	7	24	6	5

Acid Extractable metals in soil						
Our Reference		356818-114	356818-121	356818-122	356818-124	356818-136
Your Reference	UNITS	TP247	TP249	TP249	TP249	TP251
Depth		2.6-2.8	0-0.2	0.5-0.7	1.4-1.6	0-0.2
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	5	5	<4	7	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	15	7	5	16	5
Copper	mg/kg	17	11	7	3	8
Lead	mg/kg	10	10	9	9	7
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	6	4	1	1	1
Zinc	mg/kg	17	16	6	4	7

Acid Extractable metals in soil						
Our Reference		356818-149	356818-152	356818-160	356818-161	356818-166
Your Reference	UNITS	TP253	TP253	SS4	SS5	BD1/20240715
Depth		0-0.2	2-2.2	0-0.2	0-0.2	-
Date Sampled		10/07/24	10/07/24	16/07/24	16/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	7	7	9	9	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	12	20	25	21	14
Copper	mg/kg	9	18	6	8	23
Lead	mg/kg	12	29	15	19	23
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	13	3	4	17
Zinc	mg/kg	7	22	11	18	31

Acid Extractable metals in soil				
Our Reference		356818-168	356818-172	356818-183
Your Reference	UNITS	BD3/20240715	BD1/20240716	TP229 - [TRIPLICATE]
Depth		-	-	0-0.2
Date Sampled		15/07/24	16/07/24	16/07/2024
Type of sample		Soil	Soil	Soil
Date prepared	-	22/07/2024	22/07/2024	22/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024
Arsenic	mg/kg	6	5	4
Cadmium	mg/kg	<0.4	<0.4	<0.4
Chromium	mg/kg	16	11	11
Copper	mg/kg	17	17	8
Lead	mg/kg	15	9	12
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	8	8	5
Zinc	mg/kg	24	23	15

Moisture						
Our Reference		356818-1	356818-3	356818-12	356818-14	356818-17
Your Reference	UNITS	TP229	TP229	TP231	TP231	TP231
Depth		0-0.2	1-1.2	0-0.2	0.8-1	3-3.2
Date Sampled		16/07/2024	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	20	17	15	20	14

Moisture						
Our Reference		356818-18	356818-20	356818-22	356818-23	356818-25
Your Reference	UNITS	TP232	TP232	TP232	TP233	TP233
Depth		0-0.2	1-1.2	1.6-1.8	0-0.2	1-1.2
Date Sampled		16/07/24	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	34	18	22	21	13

Moisture						
Our Reference		356818-40	356818-42	356818-44	356818-48	356818-50
Your Reference	UNITS	TP235	TP236	TP236	TP237	TP237
Depth		2.2-2.4	0-0.2	0.8-1	0-0.2	0.8-1
Date Sampled		15/07/24	15/07/24	15/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	18	17	13	16	16

Moisture						
Our Reference		356818-53	356818-54	356818-56	356818-58	356818-66
Your Reference	UNITS	TP237	TP238	TP238	TP238	TP240
Depth		3-3.2	0-0.2	0.8-1	2-2.2	0-0.2
Date Sampled		16/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	13	12	20	17	17

Moisture						
Our Reference		356818-68	356818-72	356818-73	356818-74	356818-78
Your Reference	UNITS	TP240	TP240	TP241	TP241	TP242
Depth		0.8-1	2.7-2.9	0-0.2	0.5-0.7	0-0.2
Date Sampled		15/07/24	15/07/24	11/07/24	11/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	25	20	32	19	16

Moisture						
Our Reference		356818-80	356818-84	356818-89	356818-96	356818-99
Your Reference	UNITS	TP242	TP243	TP243	TP245	TP245
Depth		0.8-1	0-0.2	2.2-2.4	0-0.2	1.8-2
Date Sampled		15/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	9.6	18	17	19	12

Moisture						
Our Reference		356818-101	356818-102	356818-106	356818-108	356818-110
Your Reference	UNITS	TP245	TP246	TP246	TP247	TP247
Depth		2.4-2.6	0-0.2	2.1-2.3	0-0.2	0.9-1.1
Date Sampled		15/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	9.5	18	3.4	40	7.5

Moisture						
Our Reference		356818-114	356818-121	356818-122	356818-124	356818-136
Your Reference	UNITS	TP247	TP249	TP249	TP249	TP251
Depth		2.6-2.8	0-0.2	0.5-0.7	1.4-1.6	0-0.2
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	18	18	13	11	15

Moisture						
Our Reference		356818-149	356818-152	356818-160	356818-161	356818-166
Your Reference	UNITS	TP253	TP253	SS4	SS5	BD1/20240715
Depth		0-0.2	2-2.2	0-0.2	0-0.2	-
Date Sampled		10/07/24	10/07/24	16/07/24	16/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024	22/07/2024	22/07/2024	22/07/2024
Moisture	%	21	18	7.1	5.6	15

Moisture			
Our Reference		356818-168	356818-172
Your Reference	UNITS	BD3/20240715	BD1/20240716
Depth		-	-
Date Sampled		15/07/24	16/07/24
Type of sample		Soil	Soil
Date prepared	-	19/07/2024	19/07/2024
Date analysed	-	22/07/2024	22/07/2024
Moisture	%	16	12

Asbestos ID - soils NEPM						
Our Reference		356818-1	356818-2	356818-3	356818-4	356818-5
Your Reference	UNITS	TP229	TP229	TP229	TP229	TP229
Depth		0-0.2	0.5-0.7	1-1.2	1.9-2.1	2.3-2.5
Date Sampled		16/07/2024	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	637.36	660.57	616.73	590.78	735.65
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-6	356818-8	356818-10	356818-11	356818-12
Your Reference	UNITS	TP230	TP230	TP230	TP230	TP231
Depth		0-0.2	1-1.2	2-2.2	2.6-2.8	0-0.2
Date Sampled		16/07/24	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	705.51	626.89	801.72	623.8	793.52
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-13	356818-14	356818-15	356818-16	356818-18
Your Reference	UNITS	TP231	TP231	TP231	TP231	TP232
Depth		0.3-0.5	0.8-1	1.2-1.4	2.2-2.4	0-0.2
Date Sampled		16/07/24	16/07/24	16/07/2024	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	652.84	590.84	590.51	662.59	499.2
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown fine-grained soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-19	356818-20	356818-23	356818-24	356818-25
Your Reference	UNITS	TP232	TP232	TP233	TP233	TP233
Depth		0.3-0.5	1-1.2	0-0.2	0.5-0.7	1-1.2
Date Sampled		16/07/24	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	710.43	632.55	656.02	710.79	717.41
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-26	356818-29	356818-30	356818-32	356818-33
Your Reference	UNITS	TP233	TP234	TP234	TP234	TP234
Depth		1.4-1.6	0-0.2	0.3-0.5	1.2-1.4	1.8-2
Date Sampled		16/07/24	15/07/24	15/07/24	15/07/24	15/07/2024
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	647	721.23	644.45	686.24	744.13
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-36	356818-37	356818-38	356818-39	356818-42
Your Reference	UNITS	TP235	TP235	TP235	TP235	TP236
Depth		0-0.2	0.3-0.5	0.8-1	1.7-1.9	0-0.2
Date Sampled		15/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	753.38	638.01	729.31	733.52	677.88
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-43	356818-44	356818-45	356818-48	356818-49
Your Reference	UNITS	TP236	TP236	TP236	TP237	TP237
Depth		0.3-0.5	0.8-1	1.2-1.4	0-0.2	0.3-0.5
Date Sampled		15/07/24	15/07/24	15/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	670.22	694.78	753.02	683	778.57
Sample Description	-	Grey clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-50	356818-51	356818-54	356818-55	356818-56
Your Reference	UNITS	TP237	TP237	TP238	TP238	TP238
Depth		0.8-1	1.8-2	0-0.2	0.3-0.5	0.8-1
Date Sampled		16/07/24	16/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	656.44	700.02	676.32	697.92	646.82
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-57	356818-60	356818-61	356818-63	356818-66
Your Reference	UNITS	TP238	TP239	TP239	TP239	TP240
Depth		1.6-1.8	0-0.2	0.5-0.7	1.8-2	0-0.2
Date Sampled		15/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	769.46	709	771.66	833.34	578.68
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-67	356818-68	356818-69	356818-70	356818-74
Your Reference	UNITS	TP240	TP240	TP240	TP240	TP241
Depth		0.3-0.5	0.8-1	1.8-2	2-2.2	0.5-0.7
Date Sampled		15/07/24	15/07/24	15/07/24	15/07/24	11/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	715.27	889.08	587.12	696.32	716.47
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos#1	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-77	356818-78	356818-79	356818-80	356818-84
Your Reference	UNITS	TP241	TP242	TP242	TP242	TP243
Depth		2-2.2	0-0.2	0.3-0.5	0.8-1	0-0.2
Date Sampled		11/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	699.26	587.4	586.5	532.61	665.29
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-90	356818-92	356818-94	356818-96	356818-97
Your Reference	UNITS	TP244	TP244	TP244	TP245	TP245
Depth		0-0.2	1-1.2	2.2-2.3	0-0.2	0.5-0.7
Date Sampled		15/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	754.17	687.85	720.81	722.02	693.29
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-98	356818-99	356818-102	356818-103	356818-104
Your Reference	UNITS	TP245	TP245	TP246	TP246	TP246
Depth		1-1.2	1.8-2	0-0.2	0.4-0.6	0.9-1.1
Date Sampled		15/07/24	15/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	767.42	782.25	623.13	827.46	685
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-105	356818-108	356818-109	356818-110	356818-111
Your Reference	UNITS	TP246	TP247	TP247	TP247	TP247
Depth		1.7-1.9	0-0.2	0.5-0.7	0.9-1.1	1.3-1.5
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	757	784.31	666.72	538.59	683.31
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos#1	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-112	356818-115	356818-116	356818-117	356818-118
Your Reference	UNITS	TP247	TP248	TP248	TP248	TP248
Depth		2.1-2.3	0-0.2	0.5-0.7	1-1.2	1.6-1.8
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	788.96	685.89	657.73	726.91	836.17
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-121	356818-122	356818-123	356818-125	356818-128
Your Reference	UNITS	TP249	TP249	TP249	TP249	TP250
Depth		0-0.2	0.5-0.7	1-1.2	2.25-2.35	0-0.2
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	735.42	705.09	790.2	874.51	695.51
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-129	356818-132	356818-133	356818-136	356818-137
Your Reference	UNITS	TP250	TP250	TP250	TP251	TP251
Depth		0.3-0.5	1.5-1.7	2.2-2.3	0-0.2	0.5-0.7
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	767.63	768.92	694	764.22	588.35
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-138	356818-139	356818-142	356818-143	356818-145
Your Reference	UNITS	TP251	TP251	TP252	TP252	TP252
Depth		1-1.2	1.7-1.8	0-0.2	0.4-0.6	1.4-1.6
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	749.76	786.6	600.16	718.32	696.85
Sample Description	-	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-146	356818-149	356818-150	356818-151	356818-154
Your Reference	UNITS	TP252	TP253	TP253	TP253	TP254
Depth		2.2-2.3	0-0.2	0.5-0.7	1-1.2	0-0.2
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	609.13	708.08	800.88	735.58	759.38
Sample Description	-	Brown fine-grained soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils NEPM						
Our Reference		356818-155	356818-157	356818-159	356818-160	356818-161
Your Reference	UNITS	TP254	TP254	SS3	SS4	SS5
Depth		0.5-0.7	1.6-1.8	0-0.2	0-0.2	0-0.2
Date Sampled		16/07/24	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	26/07/2024	26/07/2024	26/07/2024	26/07/2024	26/07/2024
Sample mass tested	g	826.22	599.66	768.32	891.73	820.6
Sample Description	-	Brown coarse-grained soil & rocks	Brown clayey soil & rocks	Brown clayey soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil	Nil	Nil

Asbestos ID - soils		
Our Reference		356818-73
Your Reference	UNITS	TP241
Depth		0-0.2
Date Sampled		11/07/24
Type of sample		Soil
Date analysed	-	25/07/2024
Sample mass tested	g	Approx. 30g
Sample Description	-	Brown clayey soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Asbestos comments	-	Nil
Trace Analysis	-	No asbestos detected

PFAS in Soils Short						
Our Reference		356818-20	356818-22	356818-40	356818-78	356818-80
Your Reference	UNITS	TP232	TP232	TP235	TP242	TP242
Depth		1-1.2	1.6-1.8	2.2-2.4	0-0.2	0.8-1
Date Sampled		16/07/24	16/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<5	<5	<5	<5	<5
Perfluorooctanesulfonic acid PFOS	µg/kg	<5	<5	<5	<5	<5
Perfluorooctanoic acid PFOA	µg/kg	<5	<5	<5	<5	<5
6:2 FTS	µg/kg	<5	<5	<5	<5	<5
8:2 FTS	µg/kg	<5	<5	<5	<5	<5
Surrogate $^{13}C_8$ *PFOS*	%	112	113	109	106	112
Surrogate $^{13}C_2$ *PFOA*	%	103	100	102	101	100
Extracted ISTD $^{18}O_2$ *PFHxS*	%	98	95	95	96	96
Extracted ISTD $^{13}C_4$ *PFOS*	%	88	86	87	89	88
Extracted ISTD $^{13}C_4$ *PFOA*	%	95	92	98	102	104
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	97	96	98	102	108
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	100	103	122	111	115
Total Positive PFHxS & PFOS	µg/kg	<5	<5	<5	<5	<5
Total Positive PFOS & PFOA	µg/kg	<5	<5	<5	<5	<5
Total Positive PFHxS & PFOS & PFOA	µg/kg	<5	<5	<5	<5	<5
Total Positive PFAS	µg/kg	<5	<5	<5	<5	<5

PFAS in Soils Short						
Our Reference		356818-84	356818-108	356818-110	356818-122	356818-124
Your Reference	UNITS	TP243	TP247	TP247	TP249	TP249
Depth		0-0.2	0-0.2	0.9-1.1	0.5-0.7	1.4-1.6
Date Sampled		15/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Date analysed	-	19/07/2024	19/07/2024	19/07/2024	19/07/2024	19/07/2024
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<5	<5	<5	<5	<5
Perfluorooctanesulfonic acid PFOS	µg/kg	<5	<5	<5	<5	<5
Perfluorooctanoic acid PFOA	µg/kg	<5	<5	<5	<5	<5
6:2 FTS	µg/kg	<5	<5	<5	<5	<5
8:2 FTS	µg/kg	<5	<5	<5	<5	<5
Surrogate $^{13}C_8$ *PFOS*	%	101	108	105	109	104
Surrogate $^{13}C_2$ *PFOA*	%	104	100	105	95	100
Extracted ISTD $^{18}O_2$ *PFHxS*	%	94	105	104	97	94
Extracted ISTD $^{13}C_4$ *PFOS*	%	94	97	97	90	90
Extracted ISTD $^{13}C_4$ *PFOA*	%	107	108	102	108	103
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	107	102	101	103	116
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	113	112	109	133	130
Total Positive PFHxS & PFOS	µg/kg	<5	<5	<5	<5	<5
Total Positive PFOS & PFOA	µg/kg	<5	<5	<5	<5	<5
Total Positive PFHxS & PFOS & PFOA	µg/kg	<5	<5	<5	<5	<5
Total Positive PFAS	µg/kg	<5	<5	<5	<5	<5

Misc Inorg - Soil						
Our Reference		356818-1	356818-3	356818-12	356818-14	356818-17
Your Reference	UNITS	TP229	TP229	TP231	TP231	TP231
Depth		0-0.2	1-1.2	0-0.2	0.8-1	3-3.2
Date Sampled		16/07/2024	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
pH 1:5 soil:water	pH Units	6.1	5.8	6.3	6.7	4.9
Electrical Conductivity 1:5 soil:water	µS/cm	63	120	290	290	320

Misc Inorg - Soil						
Our Reference		356818-18	356818-20	356818-22	356818-23	356818-25
Your Reference	UNITS	TP232	TP232	TP232	TP233	TP233
Depth		0-0.2	1-1.2	1.6-1.8	0-0.2	1-1.2
Date Sampled		16/07/24	16/07/24	16/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
pH 1:5 soil:water	pH Units	6.4	6.8	5.5	7.8	5.5
Electrical Conductivity 1:5 soil:water	µS/cm	190	410	660	400	210

Misc Inorg - Soil						
Our Reference		356818-40	356818-42	356818-44	356818-48	356818-50
Your Reference	UNITS	TP235	TP236	TP236	TP237	TP237
Depth		2.2-2.4	0-0.2	0.8-1	0-0.2	0.8-1
Date Sampled		15/07/24	15/07/24	15/07/24	16/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
pH 1:5 soil:water	pH Units	7.2	7.5	5.3	6.1	6.4
Electrical Conductivity 1:5 soil:water	µS/cm	330	200	290	760	620

Misc Inorg - Soil						
Our Reference		356818-53	356818-54	356818-56	356818-58	356818-66
Your Reference	UNITS	TP237	TP238	TP238	TP238	TP240
Depth		3-3.2	0-0.2	0.8-1	2-2.2	0-0.2
Date Sampled		16/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
pH 1:5 soil:water	pH Units	5.3	4.9	5.0	6.4	5.8
Electrical Conductivity 1:5 soil:water	µS/cm	260	340	350	280	160

Misc Inorg - Soil						
Our Reference		356818-68	356818-72	356818-73	356818-74	356818-78
Your Reference	UNITS	TP240	TP240	TP241	TP241	TP242
Depth		0.8-1	2.7-2.9	0-0.2	0.5-0.7	0-0.2
Date Sampled		15/07/24	15/07/24	11/07/24	11/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
pH 1:5 soil:water	pH Units	5.7	6.4	5.9	4.8	5.3
Electrical Conductivity 1:5 soil:water	µS/cm	270	90	210	440	180

Misc Inorg - Soil						
Our Reference		356818-80	356818-84	356818-89	356818-96	356818-99
Your Reference	UNITS	TP242	TP243	TP243	TP245	TP245
Depth		0.8-1	0-0.2	2.2-2.4	0-0.2	1.8-2
Date Sampled		15/07/24	15/07/24	15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
pH 1:5 soil:water	pH Units	5.5	5.5	7.3	5.0	5.9
Electrical Conductivity 1:5 soil:water	µS/cm	350	260	670	560	330

Misc Inorg - Soil						
Our Reference		356818-101	356818-102	356818-106	356818-108	356818-110
Your Reference	UNITS	TP245	TP246	TP246	TP247	TP247
Depth		2.4-2.6	0-0.2	2.1-2.3	0-0.2	0.9-1.1
Date Sampled		15/07/24	10/07/24	10/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
pH 1:5 soil:water	pH Units	5.4	5.8	6.9	5.7	4.7
Electrical Conductivity 1:5 soil:water	µS/cm	310	540	220	350	560

Misc Inorg - Soil						
Our Reference		356818-121	356818-122	356818-149	356818-152	356818-160
Your Reference	UNITS	TP249	TP249	TP253	TP253	SS4
Depth		0-0.2	0.5-0.7	0-0.2	2-2.2	0-0.2
Date Sampled		10/07/24	10/07/24	10/07/24	10/07/24	16/07/24
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024	23/07/2024
pH 1:5 soil:water	pH Units	7.7	4.9	7.2	5.8	5.2
Electrical Conductivity 1:5 soil:water	µS/cm	710	220	250	500	110

Misc Inorg - Soil		
Our Reference		356818-161
Your Reference	UNITS	SS5
Depth		0-0.2
Date Sampled		16/07/24
Type of sample		Soil
Date prepared	-	23/07/2024
Date analysed	-	23/07/2024
pH 1:5 soil:water	pH Units	5.3
Electrical Conductivity 1:5 soil:water	µS/cm	140

CEC					
Our Reference		356818-20	356818-74	356818-102	356818-149
Your Reference	UNITS	TP232	TP241	TP246	TP253
Depth		1-1.2	0.5-0.7	0-0.2	0-0.2
Date Sampled		16/07/24	11/07/24	10/07/24	10/07/24
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Date analysed	-	23/07/2024	23/07/2024	23/07/2024	23/07/2024
Exchangeable Ca	meq/100g	3.1	0.7	2.4	4.2
Exchangeable K	meq/100g	0.1	0.2	0.2	0.2
Exchangeable Mg	meq/100g	7.9	8.1	8.4	8.8
Exchangeable Na	meq/100g	1.3	2.0	3.0	2.9
Cation Exchange Capacity	meq/100g	12	11	14	16

vTRH(C6-C10)/BTEXN in Water		
Our Reference		356818-178
Your Reference	UNITS	RINS-160724
Depth		-
Date Sampled		16/07/24
Type of sample		Water
Date extracted	-	23/07/2024
Date analysed	-	24/07/2024
TRH C_6 - C_9	µg/L	<10
TRH C_6 - C_{10}	µg/L	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	99
Surrogate Toluene-d8	%	99
Surrogate 4-Bromofluorobenzene	%	99

svTRH (C10-C40) in Water		
Our Reference	UNITS	356818-178
Your Reference		RINS-160724
Depth		-
Date Sampled		16/07/24
Type of sample		Water
Date extracted	-	19/07/2024
Date analysed	-	20/07/2024
TRH C_{10} - C_{14}	µg/L	<50
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	<50
TRH >C_{10} - C_{16}	µg/L	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	<50
Surrogate o-Terphenyl	%	83

PAHs in Water		
Our Reference		356818-178
Your Reference	UNITS	RINS-160724
Depth		-
Date Sampled		16/07/24
Type of sample		Water
Date extracted	-	19/07/2024
Date analysed	-	19/07/2024
Naphthalene	µg/L	<0.1
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	<0.1
Surrogate p-Terphenyl-d14	%	75

Metals in Waters - Acid extractable		
Our Reference		356818-178
Your Reference	UNITS	RINS-160724
Depth		-
Date Sampled		16/07/24
Type of sample		Water
Date prepared	-	19/07/2024
Date analysed	-	19/07/2024
Arsenic - Total	mg/L	<0.05
Cadmium - Total	mg/L	<0.01
Chromium - Total	mg/L	<0.01
Copper - Total	mg/L	<0.01
Lead - Total	mg/L	<0.03
Mercury - Total	mg/L	<0.0005
Nickel - Total	mg/L	<0.02
Zinc - Total	mg/L	<0.02

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. NOTE#1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF relative to the sample mass tested) NOTE#2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-020	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-OES analytical finish.
Metals-021	Determination of Mercury by Cold Vapour AAS.

Method ID	Methodology Summary
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.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.

Method ID	Methodology Summary
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
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-5	356818-12
Date extracted	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			22/07/2024	1	22/07/2024	22/07/2024		22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	113	93
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	113	93
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	115	96
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	98	89
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	107	91
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	122	95
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	81	97
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	82	1	87	93	7	95	94

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	356818-48
Date extracted	-			[NT]	25	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	25	22/07/2024	22/07/2024		22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	25	<25	<25	0	108	95
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	25	<25	<25	0	108	95
Benzene	mg/kg	0.2	Org-023	[NT]	25	<0.2	<0.2	0	107	94
Toluene	mg/kg	0.5	Org-023	[NT]	25	<0.5	<0.5	0	101	86
Ethylbenzene	mg/kg	1	Org-023	[NT]	25	<1	<1	0	112	97
m+p-xylene	mg/kg	2	Org-023	[NT]	25	<2	<2	0	111	98
o-Xylene	mg/kg	1	Org-023	[NT]	25	<1	<1	0	108	93
Naphthalene	mg/kg	1	Org-023	[NT]	25	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	25	84	82	2	94	78

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	356818-122
Date extracted	-			[NT]	42	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	42	22/07/2024	22/07/2024		22/07/2024	22/07/2024
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	42	<25	<25	0	104	79
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	42	<25	<25	0	104	79
Benzene	mg/kg	0.2	Org-023	[NT]	42	<0.2	<0.2	0	104	78
Toluene	mg/kg	0.5	Org-023	[NT]	42	<0.5	<0.5	0	104	71
Ethylbenzene	mg/kg	1	Org-023	[NT]	42	<1	<1	0	104	81
m+p-xylene	mg/kg	2	Org-023	[NT]	42	<2	<2	0	104	82
o-Xylene	mg/kg	1	Org-023	[NT]	42	<1	<1	0	100	78
Naphthalene	mg/kg	1	Org-023	[NT]	42	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	42	78	92	16	87	65

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	84	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	84	22/07/2024	22/07/2024		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	84	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	84	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	84	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	84	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	84	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	84	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	84	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	84	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	84	80	77	4	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	136	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	136	22/07/2024	22/07/2024		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	136	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	136	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	136	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	136	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	136	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	136	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	136	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	136	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	136	82	77	6	[NT]	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	149	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	149	22/07/2024	22/07/2024		[NT]	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	[NT]	149	<25	<25	0	[NT]	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	[NT]	149	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	149	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	149	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	149	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	149	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	149	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	149	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	149	76	81	6	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	356818-12
Date extracted	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	93	109
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	<100	<100	0	82	100
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	<100	<100	0	71	92
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	93	109
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	<100	<100	0	82	100
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	<100	<100	0	71	92
Surrogate o-Terphenyl	%		Org-020	85	1	69	84	20	109	84

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	356818-48
Date extracted	-			[NT]	25	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	25	20/07/2024	20/07/2024		20/07/2024	20/07/2024
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	25	<50	<50	0	107	114
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	25	<100	<100	0	93	100
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	25	<100	<100	0	86	79
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	25	<50	<50	0	107	114
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	25	<100	<100	0	93	100
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	25	<100	<100	0	86	79
Surrogate o-Terphenyl	%		Org-020	[NT]	25	83	83	0	128	111

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	356818-122
Date extracted	-			[NT]	42	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	42	20/07/2024	20/07/2024		20/07/2024	20/07/2024
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	42	<50	<50	0	119	112
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	42	<100	<100	0	96	95
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	42	<100	<100	0	88	78
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	42	<50	<50	0	119	112
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	42	<100	<100	0	96	95
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	42	<100	<100	0	88	78
Surrogate o-Terphenyl	%		Org-020	[NT]	42	82	82	0	106	84

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	84	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	84	20/07/2024	20/07/2024		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	84	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	84	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	84	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	84	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	84	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	84	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	84	86	85	1	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	136	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	136	20/07/2024	20/07/2024		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	136	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	136	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	136	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	136	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	136	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	136	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	136	84	84	0	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	149	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	149	20/07/2024	20/07/2024		[NT]	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	[NT]	149	<50	<50	0	[NT]	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	[NT]	149	<100	<100	0	[NT]	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	[NT]	149	<100	<100	0	[NT]	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	[NT]	149	<50	<50	0	[NT]	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	[NT]	149	<100	<100	0	[NT]	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	[NT]	149	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	149	83	85	2	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	356818-12
Date extracted	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			22/07/2024	1	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	92
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	104	100
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	92
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	98
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	106	102
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	98	98
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	86	84
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	92	100
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	113	1	114	111	3	113	116

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	356818-48
Date extracted	-			[NT]	25	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	25	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	110	92
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	112	100
Fluorene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	106	90
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	114	94
Anthracene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	98	98
Pyrene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	108	94
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	98	82
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	25	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	25	<0.05	<0.05	0	82	82
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	25	115	116	1	111	115

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	356818-122
Date extracted	-			[NT]	42	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	42	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	101	86
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	108	92
Fluorene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	93	84
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	104	90
Anthracene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	107	94
Pyrene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	96	88
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	85	80
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	42	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	42	<0.05	<0.05	0	83	62
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	42	115	116	1	114	123

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	84	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	84	22/07/2024	22/07/2024		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	84	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	84	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	84	119	122	2	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	136	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	136	22/07/2024	22/07/2024		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	136	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	136	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	136	116	124	7	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	149	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	149	22/07/2024	22/07/2024		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	149	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	149	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	149	115	119	3	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	356818-48
Date extracted	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			22/07/2024	1	22/07/2024	22/07/2024		22/07/2024	22/07/2024
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	96
HCB	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	88
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	82	78
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	90
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	94	88
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	96
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	126	124
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	116	110
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	112	108
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	88	76
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	102	1	99	97	2	99	101

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	356818-122
Date extracted	-			[NT]	25	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	25	22/07/2024	22/07/2024		19/07/2024	22/07/2024
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	106	88
HCB	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	100	82
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	89	76
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	98	82
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	98	82
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	105	90
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	126	134
Endrin	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	122	106
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	120	104
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	86	76
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	25	101	101	0	105	103

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	42	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	42	22/07/2024	22/07/2024		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	42	100	101	1	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	84	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	84	22/07/2024	22/07/2024		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	84	104	106	2	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	136	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	136	22/07/2024	22/07/2024		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	136	102	109	7	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	149	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	149	22/07/2024	22/07/2024		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	149	102	106	4	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	356818-48
Date extracted	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			22/07/2024	1	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	102	94
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	82	76
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	72	66
Malathion	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	92	84
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	90	86
Fenthion	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	86	80
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	110	108
Phosalone	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	102	1	99	97	2	99	101

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	356818-122
Date extracted	-			[NT]	25	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	25	22/07/2024	22/07/2024		19/07/2024	22/07/2024
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	106	88
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	85	70
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	70	66
Malathion	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	93	74
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	95	80
Fenthion	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	87	68
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	110	98
Phosalone	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	25	101	101	0	105	103

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	42	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	42	22/07/2024	22/07/2024		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	42	100	101	1	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	84	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	84	22/07/2024	22/07/2024		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	84	104	106	2	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	136	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	136	22/07/2024	22/07/2024		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	136	102	109	7	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	149	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	149	22/07/2024	22/07/2024		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Fenthion	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Phosalone	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	[NT]	149	102	106	4	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	356818-48
Date extracted	-			19/07/2024	1	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			22/07/2024	1	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Aroclor 1016	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	101	80
Aroclor 1260	mg/kg	0.1	Org-021/022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	102	1	102	98	4	101	100

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	356818-122
Date extracted	-			[NT]	25	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			[NT]	25	22/07/2024	22/07/2024		19/07/2024	22/07/2024
Aroclor 1016	mg/kg	0.1	Org-021/022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	[NT]	25	<0.1	<0.1	0	106	80
Aroclor 1260	mg/kg	0.1	Org-021/022/025	[NT]	25	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	25	100	101	1	105	103

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	42	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	42	22/07/2024	22/07/2024		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021/022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021/022/025	[NT]	42	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	42	100	101	1	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	84	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	84	22/07/2024	22/07/2024		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021/022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021/022/025	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	84	104	104	0	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	136	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	136	22/07/2024	22/07/2024		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021/022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021/022/025	[NT]	136	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	136	104	107	3	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	149	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	149	22/07/2024	22/07/2024		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021/022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021/022/025	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	[NT]	149	102	108	6	[NT]	[NT]

QUALITY CONTROL: Misc Soil - Inorg					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	356818-12
Date prepared	-			24/07/2024	1	24/07/2024	24/07/2024		24/07/2024	24/07/2024
Date analysed	-			24/07/2024	1	24/07/2024	24/07/2024		24/07/2024	24/07/2024
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	1	<5	<5	0	104	118

QUALITY CONTROL: Misc Soil - Inorg					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	356818-122
Date prepared	-			[NT]	25	24/07/2024	24/07/2024		24/07/2024	24/07/2024
Date analysed	-			[NT]	25	24/07/2024	24/07/2024		24/07/2024	24/07/2024
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	25	<5	<5	0	108	110

QUALITY CONTROL: Misc Soil - Inorg					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	110	24/07/2024	24/07/2024		[NT]	[NT]
Date analysed	-			[NT]	110	24/07/2024	24/07/2024		[NT]	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	[NT]	110	<5	<5	0	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	356818-12
Date prepared	-			22/07/2024	1	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Date analysed	-			22/07/2024	1	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Arsenic	mg/kg	4	Metals-020	<4	1	6	<4	40	103	93
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	92	85
Chromium	mg/kg	1	Metals-020	<1	1	16	9	56	95	87
Copper	mg/kg	1	Metals-020	<1	1	6	7	15	100	104
Lead	mg/kg	1	Metals-020	<1	1	12	12	0	94	89
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	98	104
Nickel	mg/kg	1	Metals-020	<1	1	4	5	22	96	93
Zinc	mg/kg	1	Metals-020	<1	1	10	15	40	96	89

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	356818-48
Date prepared	-			[NT]	25	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Date analysed	-			[NT]	25	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Arsenic	mg/kg	4	Metals-020	[NT]	25	6	7	15	106	88
Cadmium	mg/kg	0.4	Metals-020	[NT]	25	<0.4	<0.4	0	95	82
Chromium	mg/kg	1	Metals-020	[NT]	25	13	14	7	98	87
Copper	mg/kg	1	Metals-020	[NT]	25	5	6	18	102	100
Lead	mg/kg	1	Metals-020	[NT]	25	9	11	20	96	87
Mercury	mg/kg	0.1	Metals-021	[NT]	25	<0.1	<0.1	0	97	103
Nickel	mg/kg	1	Metals-020	[NT]	25	1	2	67	99	90
Zinc	mg/kg	1	Metals-020	[NT]	25	5	5	0	99	90

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	356818-122
Date prepared	-			[NT]	42	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Date analysed	-			[NT]	42	22/07/2024	22/07/2024		22/07/2024	22/07/2024
Arsenic	mg/kg	4	Metals-020	[NT]	42	6	6	0	106	91
Cadmium	mg/kg	0.4	Metals-020	[NT]	42	<0.4	<0.4	0	96	83
Chromium	mg/kg	1	Metals-020	[NT]	42	12	12	0	98	88
Copper	mg/kg	1	Metals-020	[NT]	42	21	20	5	103	98
Lead	mg/kg	1	Metals-020	[NT]	42	14	14	0	97	88
Mercury	mg/kg	0.1	Metals-021	[NT]	42	<0.1	<0.1	0	102	102
Nickel	mg/kg	1	Metals-020	[NT]	42	9	9	0	100	88
Zinc	mg/kg	1	Metals-020	[NT]	42	28	26	7	100	83

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	84	22/07/2024	22/07/2024		[NT]	[NT]
Date analysed	-			[NT]	84	22/07/2024	22/07/2024		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	84	9	7	25	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	84	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	84	8	6	29	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	84	10	9	11	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	84	11	10	10	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	84	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	84	3	3	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	84	12	11	9	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	149	22/07/2024	22/07/2024		[NT]	[NT]
Date analysed	-			[NT]	149	22/07/2024	22/07/2024		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	149	7	12	53	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	149	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	149	12	14	15	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	149	9	10	11	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	149	12	13	8	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	149	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	149	3	3	0	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	149	7	10	35	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	356818-122
Date prepared	-			19/07/2024	84	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Date analysed	-			19/07/2024	84	19/07/2024	19/07/2024		19/07/2024	19/07/2024
Perfluorohexanesulfonic acid - PFHxS	µg/kg	5	Org-029	<5	84	<5	<5	0	101	95
Perfluorooctanesulfonic acid PFOS	µg/kg	5	Org-029	<5	84	<5	<5	0	100	101
Perfluorooctanoic acid PFOA	µg/kg	5	Org-029	<5	84	<5	<5	0	80	79
6:2 FTS	µg/kg	5	Org-029	<5	84	<5	<5	0	91	92
8:2 FTS	µg/kg	5	Org-029	<5	84	<5	<5	0	92	95
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	106	84	101	113	11	109	108
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	98	84	104	103	1	99	103
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	106	84	94	105	11	98	100
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	93	84	94	92	2	93	90
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	110	84	107	108	1	106	96
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	107	84	107	111	4	103	102
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	102	84	113	107	5	112	104

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	110	19/07/2024	19/07/2024		[NT]	[NT]
Date analysed	-			[NT]	110	19/07/2024	19/07/2024		[NT]	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	5	Org-029	[NT]	110	<5	<5	0	[NT]	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	5	Org-029	[NT]	110	<5	<5	0	[NT]	[NT]
Perfluorooctanoic acid PFOA	µg/kg	5	Org-029	[NT]	110	<5	<5	0	[NT]	[NT]
6:2 FTS	µg/kg	5	Org-029	[NT]	110	<5	<5	0	[NT]	[NT]
8:2 FTS	µg/kg	5	Org-029	[NT]	110	<5	<5	0	[NT]	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	[NT]	110	105	108	3	[NT]	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	[NT]	110	105	102	3	[NT]	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	[NT]	110	104	98	6	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	[NT]	110	97	100	3	[NT]	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	[NT]	110	102	106	4	[NT]	[NT]

QUALITY CONTROL: PFAS in Soils Short					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Extracted ISTD $^{13}C_2$ 6:2FTS	%		Org-029	[NT]	110	101	104	3	[NT]	[NT]
Extracted ISTD $^{13}C_2$ 8:2FTS	%		Org-029	[NT]	110	109	99	10	[NT]	[NT]

QUALITY CONTROL: Misc Inorg - Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date prepared	-			23/07/2024	1	23/07/2024	23/07/2024		23/07/2024	[NT]
Date analysed	-			23/07/2024	1	23/07/2024	23/07/2024		23/07/2024	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	1	6.1	6.2	2	100	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	1	63	64	2	100	[NT]

QUALITY CONTROL: Misc Inorg - Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date prepared	-			[NT]	42	23/07/2024	23/07/2024		23/07/2024	[NT]
Date analysed	-			[NT]	42	23/07/2024	23/07/2024		23/07/2024	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	42	7.5	7.4	1	100	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	42	200	200	0	98	[NT]

QUALITY CONTROL: Misc Inorg - Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date prepared	-			[NT]	72	23/07/2024	23/07/2024		23/07/2024	[NT]
Date analysed	-			[NT]	72	23/07/2024	23/07/2024		23/07/2024	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	72	6.4	6.4	0	100	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	72	90	90	0	99	[NT]

QUALITY CONTROL: Misc Inorg - Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	101	23/07/2024	23/07/2024		[NT]	[NT]
Date analysed	-			[NT]	101	23/07/2024	23/07/2024		[NT]	[NT]
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	101	5.4	5.4	0	[NT]	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	[NT]	101	310	310	0	[NT]	[NT]

QUALITY CONTROL: CEC						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			23/07/2024	[NT]	[NT]	[NT]	[NT]	23/07/2024	[NT]
Date analysed	-			23/07/2024	[NT]	[NT]	[NT]	[NT]	23/07/2024	[NT]
Exchangeable Ca	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Exchangeable K	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Exchangeable Mg	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Exchangeable Na	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	87	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			23/07/2024	[NT]	[NT]	[NT]	[NT]	23/07/2024	[NT]
Date analysed	-			24/07/2024	[NT]	[NT]	[NT]	[NT]	24/07/2024	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	102	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	102	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	104	[NT]
Surrogate Toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	[NT]
Date analysed	-			20/07/2024	[NT]	[NT]	[NT]	[NT]	20/07/2024	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	112	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	115	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	112	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	115	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
Surrogate o-Terphenyl	%		Org-020	65	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: PAHs in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	[NT]
Date analysed	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	[NT]
Naphthalene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	61	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	61	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	62	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	78	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	70	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	71	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	72	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	65	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	66	[NT]	[NT]	[NT]	[NT]	81	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	[NT]
Date analysed	-			19/07/2024	[NT]	[NT]	[NT]	[NT]	19/07/2024	[NT]
Arsenic - Total	mg/L	0.05	Metals-020	<0.05	[NT]	[NT]	[NT]	[NT]	98	[NT]
Cadmium - Total	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	89	[NT]
Chromium - Total	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	91	[NT]
Copper - Total	mg/L	0.01	Metals-020	<0.01	[NT]	[NT]	[NT]	[NT]	93	[NT]
Lead - Total	mg/L	0.03	Metals-020	<0.03	[NT]	[NT]	[NT]	[NT]	93	[NT]
Mercury - Total	mg/L	0.0005	Metals-021	<0.0005	[NT]	[NT]	[NT]	[NT]	108	[NT]
Nickel - Total	mg/L	0.02	Metals-020	<0.02	[NT]	[NT]	[NT]	[NT]	94	[NT]
Zinc - Total	mg/L	0.02	Metals-020	<0.02	[NT]	[NT]	[NT]	[NT]	100	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Acid Extractable Metals in Soil:
- The laboratory RPD acceptance criteria has been exceeded for 356818-1 for Cr & Zn. Therefore a triplicate result has been issued as laboratory sample number 356818-183.

Asbestos: A portion of the supplied sample was sub-sampled for asbestos according to ASB-001 asbestos subsampling procedure. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab/MPL recommends supplying 40-60g or 500ml of sample in its own container.
Note: Sample 356818-73 was sub-sampled from a jar provided by the client.

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden, Patrick Johansson

Sample Login Details

Your reference	207476.05, Erskine Park (Stage 2)
Envirolab Reference	356818
Date Sample Received	17/07/2024
Date Instructions Received	17/07/2024
Date Results Expected to be Reported	26/07/2024

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	181 Soil, 1 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Missing sample TP244/2.7-2.9

Extra samples -
241/2.9-3.1
2.4/2.6-2.8
247/1.0-1.2
243/1.6-1.8

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	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	Asbestos ID - soils	PFAS in Soils Short	Misc Inorg - Soil	CEC	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	On Hold
TP229-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓						
TP229-0.5-0.7									✓									
TP229-1-1.2	✓	✓	✓					✓	✓			✓						
TP229-1.9-2.1									✓									
TP229-2.3-2.5									✓									
TP230-0-0.2									✓									
TP230-0.5-0.7																		✓
TP230-1-1.2									✓									
TP230-1.6-1.8																		✓
TP230-2-2.2									✓									
TP230-2.6-2.8									✓									
TP231-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓						
TP231-0.3-0.5									✓									
TP231-0.8-1	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓						
TP231-1.2-1.4									✓									
TP231-2.2-2.4									✓									
TP231-3-3.2	✓	✓	✓					✓				✓						
TP232-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓						
TP232-0.3-0.5									✓									
TP232-1-1.2	✓	✓	✓					✓	✓		✓	✓	✓					

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TP232-1.3-1.5																		✓
TP232-1.6-1.8	✓	✓	✓					✓			✓	✓						
TP233-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓						
TP233-0.5-0.7									✓									
TP233-1-1.2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓						
TP233-1.4-1.6									✓									
TP233-2.2-2.4																		✓
TP233-2.7-2.9																		✓
TP234-0-0.2									✓									
TP234-0.3-0.5									✓									
TP234-0.8-1																		✓
TP234-1.2-1.4									✓									
TP234-1.8-2									✓									
TP234-2.1-2.3																		✓
TP234-2.3-2.5																		✓
TP235-0-0.2									✓									
TP235-0.3-0.5									✓									
TP235-0.8-1									✓									
TP235-1.7-1.9									✓									
TP235-2.2-2.4	✓	✓	✓					✓			✓	✓						

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TP235-2.4-2.6																		✓
TP236-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓						
TP236-0.3-0.5									✓									
TP236-0.8-1	✓	✓	✓					✓	✓			✓						
TP236-1.2-1.4									✓									
TP236-2.4-2.6																		✓
TP236-2.7-2.9																		✓
TP237-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓						
TP237-0.3-0.5									✓									
TP237-0.8-1	✓	✓	✓					✓	✓			✓						
TP237-1.8-2									✓									
TP237-2.7-2.9																		✓
TP237-3-3.2	✓	✓	✓					✓				✓						
TP238-0-0.2	✓	✓	✓					✓	✓			✓						
TP238-0.3-0.5									✓									
TP238-0.8-1	✓	✓	✓					✓	✓			✓						
TP238-1.6-1.8									✓									
TP238-2-2.2	✓	✓	✓	✓	✓	✓	✓	✓				✓						
TP238-2.3-2.5																		✓
TP239-0-0.2									✓									

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TP239-0.5-0.7									✓									
TP239-1-1.2																		✓
TP239-1.8-2									✓									
TP239-2.1-2.3																		✓
TP239-2.4-2.6																		✓
TP240-0-0.2	✓	✓	✓					✓	✓			✓						
TP240-0.3-0.5									✓									
TP240-0.8-1	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓						
TP240-1.8-2									✓									
TP240-2-2.2									✓									
TP240-2.3-2.5																		✓
TP240-2.7-2.9	✓	✓	✓					✓				✓						
TP241-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓						
TP241-0.5-0.7	✓	✓	✓					✓	✓			✓	✓					
TP241-1-1.2																		✓
TP241-1.5-1.7																		✓
TP241-2-2.2									✓									
TP242-0-0.2	✓	✓	✓					✓	✓		✓	✓						
TP242-0.3-0.5									✓									
TP242-0.8-1	✓	✓	✓					✓	✓		✓	✓						

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TP242-1.6-1.8																		✓
TP242-2.1-2.3																		✓
TP242-2.3-2.5																		✓
TP243-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓						
TP243-0.4-0.6																		✓
TP243-0.7-0.9																		✓
TP243-1.6-1.7																		✓
TP243-1.8-2																		✓
TP243-2.2-2.4	✓	✓	✓					✓				✓						
TP244-0-0.2									✓									
TP244-0.5-0.7																		✓
TP244-1-1.2									✓									
TP244-2-2.2																		✓
TP244-2.2-2.3									✓									
TP244-2.4-2.6																		✓
TP245-0-0.2	✓	✓	✓					✓	✓			✓						
TP245-0.5-0.7									✓									
TP245-1-1.2									✓									
TP245-1.8-2	✓	✓	✓					✓	✓			✓						
TP245-2.1-2.3																		✓

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TP245-2.4-2.6	✓	✓	✓					✓				✓						
TP246-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓					
TP246-0.4-0.6									✓									
TP246-0.9-1.1									✓									
TP246-1.7-1.9									✓									
TP246-2.1-2.3	✓	✓	✓	✓	✓	✓	✓	✓				✓						
TP246-2.4-2.6																		✓
TP247-0-0.2	✓	✓	✓					✓	✓		✓	✓						
TP247-0.5-0.7									✓									
TP247-0.9-1.1	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓						
TP247-1.3-1.5									✓									
TP247-2.1-2.3									✓									
TP247-2.3-2.5																		✓
TP247-2.6-2.8	✓	✓	✓					✓										
TP248-0-0.2									✓									
TP248-0.5-0.7									✓									
TP248-1-1.2									✓									
TP248-1.6-1.8									✓									
TP248-1.9-2.1																		✓
TP248-2.2-2.4																		✓

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TP249-0-0.2	✓	✓	✓					✓	✓			✓						
TP249-0.5-0.7	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓						
TP249-1-1.2									✓									
TP249-1.4-1.6	✓	✓	✓					✓			✓							
TP249-2.25-2.35									✓									
TP249-2.4-2.6																		✓
TP249-2.8-3																		✓
TP250-0-0.2									✓									
TP250-0.3-0.5									✓									
TP250-0.9-1																		✓
TP250-1.1-1.3																		✓
TP250-1.5-1.7									✓									
TP250-2.2-2.3									✓									
TP250-2.4-2.6																		✓
TP250-2.7-2.9																		✓
TP251-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓									
TP251-0.5-0.7									✓									
TP251-1-1.2									✓									
TP251-1.7-1.8									✓									
TP251-1.9-2.1																		✓

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TP251-2.1-2.3																		✓
TP252-0-0.2									✓									
TP252-0.4-0.6									✓									
TP252-0.9-1.1																		✓
TP252-1.4-1.6									✓									
TP252-2.2-2.3									✓									
TP252-2.4-2.6																		✓
TP252-2.6-2.8																		✓
TP253-0-0.2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓					
TP253-0.5-0.7									✓									
TP253-1-1.2									✓									
TP253-2-2.2	✓	✓	✓	✓	✓	✓	✓	✓				✓						
TP253-2.3-2.5																		✓
TP254-0-0.2									✓									
TP254-0.5-0.7									✓									
TP254-1-1.2																		✓
TP254-1.6-1.8									✓									
TP254-2.6-2.8																		✓
SS3-0-0.2									✓									
SS4-0-0.2	✓	✓	✓					✓	✓			✓						

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SS5-0-0.2	✓	✓	✓					✓	✓			✓						
BD1/20240710																		✓
BD2/20240710																		✓
BD3/20240710																		✓
BD4/20240710																		✓
BD1/20240715	✓	✓	✓					✓										
BD2/20240715																		✓
BD3/20240715	✓	✓	✓					✓										
BD4/20240715																		✓
BD5/20240715																		✓
BD6/20240715																		✓
BD1/20240716	✓	✓	✓					✓										
BD2/20240716																		✓
BD3/20240716																		✓
BD4/20240716																		✓
TS-160724	✓																	
TB-160724	✓																	
RINS-160724														✓	✓	✓	✓	
241-2.9-3.1																		✓
241-2.6-2.8																		✓

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	Organophosphorus Pesticides in Soil	PCBs in Soil	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	Asbestos ID - soils	PFAS in Soils Short	Misc Inorg - Soil	CEC	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	Metals in Waters -Acid extractable	On Hold
247-1.0-1.2																		✓
243-1.6-1.8																		✓

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.

coc: 17/07/24 1732

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

Project No: 207476.06	**Suburb:** Erskine Park (Stage 2)		**To:** Envirolab Services
Project Manager: DIH	**Order Number:**	**Sampler:** PJ	12 Ashley St, Chatswood 2067 NSW
Email: david.holden@douglaspartners.com.au; patrick.johansson@douglaspartners.com.au			**Attn:** Aileen Hie
Turnaround time ☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day			
Prior Storage ☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?** ☑ No ☐ YES, handle, transport, store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - Class Jar P - PFAS B - AFFA BAG	Analytes: Combo 8AN	Combo 8	Combo 3AN	Combo 3	Asbestos 500mL	PFAS (short suite)	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
1	TP229	0	0.2	16/07/24	S	G / B	x							x		x					
2	TP229	0.5	0.7	16/07/24	S	G / B					x										
3	TP229	1	1.2	16/07/24	S	G / B			x					x		x					
4	TP229	1.9	2.1	16/07/24	S	G / B					x										
5	TP229	2.3	2.5	16/07/24	S	G / B					x										
6	TP230	0	0.2	16/07/24	S	G / B					x										
7	TP230	0.5	0.7	16/07/24	S	G / B														x	
8	TP230	1	1.2	16/07/24	S	G / B					x										
9	TP230	1.6	1.8	16/07/24	S	G / B														x	
10	TP230	2	2.2	16/07/24	S	G / B					x										
11	TP230	2.6	2.8	16/07/24	S	G / B					x										
12	TP231	0	0.2	16/07/24	S	G / B	x							x		x					
13	TP231	0.3	0.5	16/07/24	S	G / B					x										
14	TP231	0.8	1	16/07/24	S	G / B	x							x		x					

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

Job No: 356818
Date Received: 17/7/24
Time Received: 1130
Received By: CN
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Metals to analyse: 8ha			**LAB RECEIPT**
Number of samples in container:	**Transported to laboratory by:** PJ		**Lab Ref. No:**
Send results to: Douglas Partners Pty Ltd			**Received by:**
Address: 96 Hermitage Rd, West Ryde 2114 NSW	**Phone:** 9809 0666		**Date & Time:**
Relinquished by: PJ	**Date:** 17/07/2024	**Signed:**	**Signed:**

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

356818

Project No: 207476.06	**Suburb:** Erskine Park (Stage 2)	**To:** Envirolab Services	
Project Manager: DIH		**Dispatch date:**	45490

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Combo 8AN	Combo 8	Combo 3AN	Combo 3	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
15	TP231	1.2	1.4	16/07/24	S	G / B					x										
16	TP231	2.2	2.4	16/07/24	S	G / B					x										
17	TP231	3	3.2	16/07/24	S	G				x				x		x					
18	TP232	0	0.2	16/07/24	S	G / P / B	x							x		x					
19	TP232	0.3	0.5	16/07/24	S	G / P / B					x										
20	TP232	1	1.2	16/07/24	S	G / P / B			x			x		x	x	x					
11	TP232	1.3	1.5	16/07/24	S	G / P															
22	TP232	1.6	1.8	16/07/24	S	G / P				x		x		x		x					
23	TP233	0	0.2	16/07/24	S	G / B	x							x		x					
24	TP233	0.5	0.7	16/07/24	S	G / B					x										
25	TP233	1	1.2	16/07/24	S	G / B	x							x		x					
26	TP233	1.4	1.6	16/07/24	S	G / B					x										
27	TP233	2.2	2.4	16/07/24	S	G														x	
28	TP233	2.7	2.9	16/07/24	S	G														x	
29	TP234	0	0.2	15/07/24	S	G / B					x										
30	TP234	0.3	0.5	15/07/24	S	G / B					x										
31	TP234	0.8	1	15/07/24	S	G / B														x	
32	TP234	1.2	1.4	15/07/24	S	G / B					x										

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

35681Y

Project No: 207476.06	**Suburb:** Erskine Park (Stage 2)	**To:** Envirolab Services	
Project Manager: DIH		**Dispatch date:**	45490

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Combo 8AN	Combo 8	Combo 3AN	Combo 3	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
33	TP234	1.8	2	15/07/24	S	G / B			/		x										
34	TP234	2.1	2.3	15/07/24	S	G														x	
35	TP234	2.3	2.5	15/07/24	S	G														x	
36	TP235	0	0.2	15/07/24	S	G / P / B					x										
37	TP235	0.3	0.5	15/07/24	S	G / P / B					x										
38	TP235	0.8	1	15/07/24	S	G / P / B					x										
39	TP235	1.7	1.9	15/07/24	S	G / P / B					x										
40	TP235	2.2	2.4	15/07/24	S	G / P				x		x		x		x					
41	TP235	2.4	2.6	15/07/24	S	G / P														x	
42	TP236	0	0.2	15/07/24	S	G / B	x							x		x					
43	TP236	0.3	0.5	15/07/24	S	G / B					x										
44	TP236	0.8	1	15/07/24	S	G / B			x					x		x					
45	TP236	1.2	1.4	15/07/24	S	G / B					x										
46	TP236	2.4	2.6	15/07/24	S	G														x	
47	TP236	2.7	2.9	15/07/24	S	G														x	
48	TP237	0	0.2	16/07/24	S	G / B	x							x		x					
49	TP237	0.3	0.5	16/07/24	S	G / B					x										
50	TP237	0.8	1	16/07/24	S	G / B			x					x		x					
51	TP237	1.8	2	16/07/24	S	G / B					x										

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

356818

Project No: 207476.06	**Suburb:** Erskine Park (Stage 2)	**To:** Envirolab Services	
Project Manager: DIH		**Dispatch date:**	45490

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Combo 8AN	Combo 8	Combo 3AN	Combo 3	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
52	TP237	2.7	2.9	16/07/24	S	G														x	
53	TP237	3	3.2	16/07/24	S	G				x				x		x					
54	TP238	0	0.2	15/07/24	S	G / B			x					x		x					
55	TP238	0.3	0.5	15/07/24	S	G / B					x										
56	TP238	0.8	1	15/07/24	S	G / B			x					x		x					
57	TP238	1.6	1.8	15/07/24	S	G / B					x										
58	TP238	2	2.2	15/07/24	S	G		x						x		x					
59	TP238	2.3	2.5	15/07/24	S	G														x	
60	TP239	0	0.2	15/07/24	S	G / P / B					x										
61	TP239	0.5	0.7	15/07/24	S	G / P / B					x										
62	TP239	1	1.2	15/07/24	S	G / P / B														x	
63	TP239	1.8	2	15/07/24	S	G / P / B					x										
64	TP239	2.1	2.3	15/07/24	S	G / P														x	
65	TP239	2.4	2.6	15/07/24	S	G / P														x	
66	TP240	0	0.2	15/07/24	S	G / B			x					x		x					
67	TP240	0.3	0.5	15/07/24	S	G / B					x										
68	TP240	0.8	1	15/07/24	S	G / B	x							x		x					
69	TP240	1.8	2	15/07/24	S	G / B					x										
70	TP240	2	2.2	15/07/24	S	G / B					x										

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

356818

Project No: 207476.06	**Suburb:** Erskine Park (Stage 2)	**To:** Envirolab Services	
Project Manager: DIH		**Dispatch date:**	45490

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Combo 8AN	Combo 8	Combo 3AN	Combo 3	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
71	TP240	2.3	2.5	15/07/24	S	G														x	
72	TP240	2.7	2.9	15/07/24	S	G				x				x		x					
73	TP241	0	0.2	11/07/24	S	G / B	x							x		x					
74	TP241	0.5	0.7	11/07/24	S	G / B			x					x	x	x					
75	TP241	1	1.2	11/07/24	S	G / B					x										
76	TP241	1.5	1.7	11/07/24	S	G														x	
77	TP241	2	2.2	11/07/24	S	G														x	
78	TP242	0	0.2	15/07/24	S	G / P / B			x			x		x		x					
79	TP242	0.3	0.5	15/07/24	S	G / P / B					x										
80	TP242	0.8	1	15/07/24	S	G / P / B			x			x		x		x					
81	TP242	1.6	1.8	15/07/24	S	G / P / B					x										
82	TP242	2.1	2.3	15/07/24	S	G / P														x	
83	TP242	2.3	2.5	15/07/24	S	G / P														x	
84	TP243	0	0.2	15/07/24	S	G / B	x							x		x					
85	TP243	0.4	0.6	15/07/24	S	G / B														x	
86	TP243	0.7	0.9	15/07/24	S	G / B														x	
87	TP243	1.6	1.7	15/07/24	S	G / B														x	
88	TP243	1.8	2	15/07/24	S	G														x	
89	TP243	2.2	2.4	15/07/24	S	G				x				x		x					

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

356818

Project No: 207476.06	**Suburb:** Erskine Park (Stage 2)	**To:** Envirolab Services	
Project Manager: DIH		**Dispatch date:**	45490

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Combo 8AN	Combo 8	Combo 3AN	Combo 3	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
90	TP244	0	0.2	15/07/24	S	G / P / B					x										
91	TP244	0.5	0.7	15/07/24	S	G / P / B														x	
92	TP244	1	1.2	15/07/24	S	G / P / B					x										
93	TP244	2	2.2	15/07/24	S	G / P / B														x	
94	TP244	2.2	2.3	15/07/24	S	G / P / B					x										
95	TP244	2.4	2.6	15/07/24	S	G / P														x	
96 NR	TP244	2.7	2.9	15/07/24	S	G / P														x	
96	TP245	0	0.2	15/07/24	S	G / B			x					x		x					
97	TP245	0.5	0.7	15/07/24	S	G / B					x										
98	TP245	1	1.2	15/07/24	S	G / B					x										
99	TP245	1.8	2	15/07/24	S	G / B			x					x		x					
100	TP245	2.1	2.3	15/07/24	S	G														x	
101	TP245	2.4	2.6	15/07/24	S	G				x				x		x					
102	TP246	0	0.2	10/07/24	S	G / B	x							x	x	x					
103	TP246	0.4	0.6	10/07/24	S	G / B					x										
104	TP246	0.9	1.1	10/07/24	S	G / B					x										
105	TP246	1.7	1.9	10/07/24	S	G / B					x										
106	TP246	2.1	2.3	10/07/24	S	G		x						x		x					
107	TP246	2.4	2.6	10/07/24	S	G														x	

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

356818

Project No: 207476.06	**Suburb:** Erskine Park (Stage 2)	**To:** Envirolab Services	
Project Manager: DIH		**Dispatch date:**	45490

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Combo 8AN	Combo 8	Combo 3AN	Combo 3	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
108	TP247	0	0.2	10/07/24	S	G / P / B			x			x		x		x					
109	TP247	0.5	0.7	10/07/24	S	G / P / B					x										
110	TP247	0.9	1.1	10/07/24	S	G / P / B	x					x		x		x					
111	TP247	1.3	1.5	10/07/24	S	G / P / B					x										
112	TP247	2.1	2.3	10/07/24	S	G / P / B					x										
113	TP247	2.3	2.5	10/07/24	S	G / P														x	
114	TP247	2.6	2.8	10/07/24	S	G / P				x											
115	TP248	0	0.2	10/07/24	S	G / B					x										
116	TP248	0.5	0.7	10/07/24	S	G / B					x										
117	TP248	1	1.2	10/07/24	S	G / B					x										
118	TP248	1.6	1.8	10/07/24	S	G / B					x										
119	TP248	1.9	2.1	10/07/24	S	G														x	
120	TP248	2.2	2.4	10/07/24	S	G														x	
121	TP249	0	0.2	10/07/24	S	G / P / B			x					x		x					
122	TP249	0.5	0.7	10/07/24	S	G / P / B	x					x		x		x					
123	TP249	1	1.2	10/07/24	S	G / P / B					x										
124	TP249	1.4	1.6	10/07/24	S	G / P / B				x		x									
125	TP249	2.25	2.35	10/07/24	S	G / P / B					x										
126	TP249	2.4	2.6	10/07/24	S	G / P														x	

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

356818

Project No: 207476.06	**Suburb:** Erskine Park (Stage 2)	**To:** Envirolab Services	
Project Manager: DIH		**Dispatch date:**	45490

Lab ID	Sample ID: Location / Other ID	Sample ID: Depth From	Sample ID: Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Combo 8AN	Combo 8	Combo 3AN	Combo 3	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
127	TP249	2.8	3	10/07/24	S	G / P														x	
128	TP250	0	0.2	10/07/24	S	G / B					x										
129	TP250	0.3	0.5	10/07/24	S	G / B					x										
130	TP250	0.9	1	10/07/24	S	G / B														x	
131	TP250	1.1	1.3	10/07/24	S	G / B														x	
132	TP250	1.5	1.7	10/07/24	S	G / B					x										
133	TP250	2.2	2.3	10/07/24	S	G / B					x										
134	TP250	2.4	2.6	10/07/24	S	G														x	
135	TP250	2.7	2.9	10/07/24	S	G														x	
136	TP251	0	0.2	10/07/24	S	G / P / B	x														
137	TP251	0.5	0.7	10/07/24	S	G / P / B					x										
138	TP251	1	1.2	10/07/24	S	G / P / B					x										
139	TP251	1.7	1.8	10/07/24	S	G / P / B					x										
140	TP251	1.9	2.1	10/07/24	S	G / P														x	
141	TP251	2.1	2.3	10/07/24	S	G / P														x	
142	TP252	0	0.2	10/07/24	S	G / B					x										
143	TP252	0.4	0.6	10/07/24	S	G / B					x										
144	TP252	0.9	1.1	10/07/24	S	G / B														x	
145	TP252	1.4	1.6	10/07/24	S	G / B					x										

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

356818

Project No: 207476.06	**Suburb:** Erskine Park (Stage 2)	**To:** Envirolab Services	
Project Manager: DIH		**Dispatch date:**	45490

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Combo 8AN	Combo 8	Combo 3AN	Combo 3	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
146	TP252	2.2	2.3	10/07/24	S	G / B					x										
147	TP252	2.4	2.6	10/07/24	S	G														x	
148	TP252	2.6	2.8	10/07/24	S	G														x	
149	TP253	0	0.2	10/07/24	S	G / P / B	x							x	x	x					
150	TP253	0.5	0.7	10/07/24	S	G / P / B					x										
151	TP253	1	1.2	10/07/24	S	G / P / B					x										
152	TP253	2	2.2	10/07/24	S	G / P		x						x		x					
153	TP253	2.3	2.5	10/07/24	S	G / P														x	
154	TP254	0	0.2	16/07/24	S	G / P / B					x										
155	TP254	0.5	0.7	16/07/24	S	G / P / B					x										
156	TP254	1	1.2	16/07/24	S	G / P / B														x	
157	TP254	1.6	1.8	16/07/24	S	G / P / B					x										
158	TP254	2.6	2.8	16/07/24	S	G / P / B														x	
159	SS3	0	0.2	16/07/24	S	G / B					x										
160	SS4	0	0.2	16/07/24	S	G / B			x					x		x					
161	SS5	0	0.2	16/07/24	S	G / B			x					x		x					
167	BD1/20240710			10/07/24	S	G														x	
163	BD2/20240710			10/07/24	S	G / P														x	
164	BD3/20240710			10/07/24	S	G														x	

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

356818

Project No: 207476.06	**Suburb:** Erskine Park (Stage 2)	**To:** Envirolab Services	
Project Manager: DIH		**Dispatch date:** 45490	

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M -	Container Type: G - Glass Jar P - PFAS B - AFFA	Analytes: Combo 8AN	Combo 8	Combo 3AN	Combo 3	Asbestos 500mL	PFAS (short	BTEX	pH	CEC	EC	Metals (total)	TRH	PAH	Hold	Notes/ Preservation/ Additional Requirements
165	BD4/20240710			10/07/24	S	G / P														x	
166	BD1/20240715			15/07/24	S	G				x											
167	BD2/20240715			15/07/24	S	G / P														x	
168	BD3/20240715			15/07/24	S	G				x											
169	BD4/20240715			15/07/24	S	G / P														x	
170	BD5/20240715			15/07/24	S	G / P														x	
171	BD6/20240715			15/07/24	S	G														x	
172	BD1/20240716			16/07/24	S	G				x											
173	BD2/20240716			16/07/24	S	G														x	
174	BD3/20240716			16/07/24	S	G / P				x										Please send for inter-laboratory analysis	
175	BD4/20240716			16/07/24	S	G / P				x										Please send for inter-laboratory analysis	
176	TS-160724			16/07/24	S	G							x								
177	TB-160724			16/07/24	S	G							x								
178	RINS-160724			16/07/24	W	G / P							x				x	x	x		
179	241	2.9	31																		
180	241	2.6	2.8		extra 0.W																
181	247	~~0.6~~ 1.6	~~1.1~~ 1.2 CH																		
182	60" 243	1.6	1.8																		

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

#356818

Project No: 207476.06	**Suburb:** Erskine Park (Stage 2)		**To:** Envirolab Services
Project Manager: DIH	**Order Number:**	**Sampler:** PJ	12 Ashley St, Chatswood 2067 NSW
Email: david.holden@douglaspartners.com.au; patrick.johansson@douglaspartners.com.au			**Attn:** Aileen Hie
Turnaround time ☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day			
Prior Storage ☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?** ☑ No ☐ YES, handle, transport, store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - Glass Jar P - PFAS B - AFFA BAG	Analytes: Metals 8ha	BTEX	TRH	PAH									Notes/ Preservation/ Additional Requirements
	BD3/20240716			16/07/24	S	G / P	x	x	x	x									Please send for inter-laboratory analysis
	BD4/20240716			16/07/24	S	G / P	x	x	x	x									Please send for inter-laboratory analysis

Metals to analyse: 8ha			**LAB RECEIPT**
Number of samples in container:	**Transported to laboratory by:** PJ		**Lab Ref. No:**
Send results to: Douglas Partners Pty Ltd			**Received by:**
Address: 96 Hermitage Rd, West Ryde 2114 NSW	**Phone:** 9809 0666		**Date & Time:**
Relinquished by: PJ	**Date:** 17/07/2024	**Signed:**	**Signed:**

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 356818-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**207476.06, Erskine Park (Stage 2)**
Number of Samples	181 Soil, 1 Water
Date samples received	17/07/2024
Date completed instructions received	25/07/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	01/08/2024
Date of Issue	01/08/2024

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Sneha Shakya
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Amanda Chui, LC/Air Toxics Supervisor
Diego Bigolin, Inorganics Supervisor
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Loren Bardwell, Development Chemist
Lucy Zhu, Asbestos Supervisor
Timothy Toll, Senior Chemist

Authorised By
Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		356818-A-36	356818-A-70
Your Reference	UNITS	TP235	TP240
Depth		0-0.2	2-2.2
Date Sampled		15/07/24	15/07/24
Type of sample		Soil	Soil
Date extracted	-	29/07/2024	29/07/2024
Date analysed	-	30/07/2024	30/07/2024
TRH C_6 - C_9	mg/kg	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25
vTRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
Naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	102	105

svTRH (C10-C40) in Soil			
Our Reference		356818-A-36	356818-A-70
Your Reference	UNITS	TP235	TP240
Depth		0-0.2	2-2.2
Date Sampled		15/07/24	15/07/24
Type of sample		Soil	Soil
Date extracted	-	29/07/2024	29/07/2024
Date analysed	-	30/07/2024	30/07/2024
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TRH >C_{10} -C_{16} less Naphthalene (F2)	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surrogate o-Terphenyl	%	82	83

PAHs in Soil			
Our Reference		356818-A-36	356818-A-70
Your Reference	UNITS	TP235	TP240
Depth		0-0.2	2-2.2
Date Sampled		15/07/24	15/07/24
Type of sample		Soil	Soil
Date extracted	-	29/07/2024	29/07/2024
Date analysed	-	29/07/2024	30/07/2024
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	78	103

Organochlorine Pesticides in soil		
Our Reference		356818-A-70
Your Reference	UNITS	TP240
Depth		2-2.2
Date Sampled		15/07/24
Type of sample		Soil
Date extracted	-	29/07/2024
Date analysed	-	30/07/2024
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
Surrogate 4-Chloro-3-NBTF	%	105

Organophosphorus Pesticides in Soil		
Our Reference		356818-A-70
Your Reference	UNITS	TP240
Depth		2-2.2
Date Sampled		15/07/24
Type of sample		Soil
Date extracted	-	29/07/2024
Date analysed	-	30/07/2024
Dichlorvos	mg/kg	<0.1
Mevinphos	mg/kg	<0.1
Phorate	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Diazinon	mg/kg	<0.1
Disulfoton	mg/kg	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1
Parathion-Methyl	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Malathion	mg/kg	<0.1
Chlorpyriphos	mg/kg	<0.1
Fenthion	mg/kg	<0.1
Parathion	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Methidathion	mg/kg	<0.1
Fenamiphos	mg/kg	<0.1
Ethion	mg/kg	<0.1
Phosalone	mg/kg	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1
Coumaphos	mg/kg	<0.1
Surrogate 4-Chloro-3-NBTF	%	105

PCBs in Soil		
Our Reference		356818-A-70
Your Reference	UNITS	TP240
Depth		2-2.2
Date Sampled		15/07/24
Type of sample		Soil
Date extracted	-	29/07/2024
Date analysed	-	30/07/2024
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate 2-Fluorobiphenyl	%	99

Misc Soil - Inorg		
Our Reference		356818-A-70
Your Reference	UNITS	TP240
Depth		2-2.2
Date Sampled		15/07/24
Type of sample		Soil
Date prepared	-	29/07/2024
Date analysed	-	29/07/2024
Total Phenolics (as Phenol)	mg/kg	<5

Acid Extractable metals in soil			
Our Reference		356818-A-36	356818-A-70
Your Reference	UNITS	TP235	TP240
Depth		0-0.2	2-2.2
Date Sampled		15/07/24	15/07/24
Type of sample		Soil	Soil
Date prepared	-	29/07/2024	29/07/2024
Date analysed	-	30/07/2024	30/07/2024
Arsenic	mg/kg	10	10
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	10	23
Copper	mg/kg	15	12
Lead	mg/kg	15	30
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	6	12
Zinc	mg/kg	20	32

Moisture			
Our Reference		356818-A-36	356818-A-70
Your Reference	UNITS	TP235	TP240
Depth		0-0.2	2-2.2
Date Sampled		15/07/24	15/07/24
Type of sample		Soil	Soil
Date prepared	-	29/07/2024	29/07/2024
Date analysed	-	30/07/2024	30/07/2024
Moisture	%	18	13

Asbestos ID - soils NEPM				
Our Reference		356818-A-85	356818-A-86	356818-A-87
Your Reference	UNITS	TP243	TP243	TP243
Depth		0.4-0.6	0.7-0.9	1.6-1.7
Date Sampled		15/07/24	15/07/24	15/07/24
Type of sample		Soil	Soil	Soil
Date analysed	-	31/07/2024	31/07/2024	31/07/2024
Sample mass tested	g	815.14	661.82	678.21
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–
FA and AF Estimation*	g	–	–	–
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001
Asbestos comments	-	Nil	Nil	Nil

PFAS in Soils Short		
Our Reference		356818-A-36
Your Reference	UNITS	TP235
Depth		0-0.2
Date Sampled		15/07/24
Type of sample		Soil
Date prepared	-	29/07/2024
Date analysed	-	29/07/2024
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<5
Perfluorooctanesulfonic acid PFOS	µg/kg	<5
Perfluorooctanoic acid PFOA	µg/kg	<5
6:2 FTS	µg/kg	<5
8:2 FTS	µg/kg	<5
Surrogate $^{13}C_8$ *PFOS*	%	99
Surrogate $^{13}C_2$ *PFOA*	%	99
Extracted ISTD $^{18}O_2$ *PFHxS*	%	92
Extracted ISTD $^{13}C_4$ *PFOS*	%	95
Extracted ISTD $^{13}C_4$ *PFOA*	%	97
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	99
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	94
Total Positive PFHxS & PFOS	µg/kg	<5
Total Positive PFOS & PFOA	µg/kg	<5
Total Positive PFHxS & PFOS & PFOA	µg/kg	<5
Total Positive PFAS	µg/kg	<5

CEC		
Our Reference		356818-A-1
Your Reference	UNITS	TP229
Depth		0-0.2
Date Sampled		16/07/2024
Type of sample		Soil
Date prepared	-	31/07/2024
Date analysed	-	31/07/2024
Exchangeable Ca	meq/100g	2.5
Exchangeable K	meq/100g	0.1
Exchangeable Mg	meq/100g	1.9
Exchangeable Na	meq/100g	0.2
Cation Exchange Capacity	meq/100g	4.7

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. NOTE#1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF relative to the sample mass tested) NOTE#2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-020	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-OES analytical finish.
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.

Method ID	Methodology Summary
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.
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.

Method ID	Methodology Summary
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-4	[NT]
Date extracted	-			29/07/2024	70	29/07/2024	29/07/2024		29/07/2024	[NT]
Date analysed	-			30/07/2024	70	30/07/2024	30/07/2024		30/07/2024	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	70	<25	<25	0	85	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	70	<25	<25	0	85	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	70	<0.2	<0.2	0	82	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	70	<0.5	<0.5	0	89	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	70	<1	<1	0	82	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	70	<2	<2	0	85	[NT]
o-Xylene	mg/kg	1	Org-023	<1	70	<1	<1	0	85	[NT]
Naphthalene	mg/kg	1	Org-023	<1	70	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	107	70	105	99	6	97	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			29/07/2024	70	29/07/2024	29/07/2024		29/07/2024	[NT]
Date analysed	-			30/07/2024	70	30/07/2024	30/07/2024		30/07/2024	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	70	<50	<50	0	107	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	70	<100	<100	0	97	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	70	<100	<100	0	114	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	70	<50	<50	0	107	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	70	<100	<100	0	97	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	70	<100	<100	0	114	[NT]
Surrogate o-Terphenyl	%		Org-020	83	70	83	86	4	115	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			29/07/2024	70	29/07/2024	29/07/2024		29/07/2024	[NT]
Date analysed	-			29/07/2024	70	30/07/2024	30/07/2024		30/07/2024	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	82	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	90	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	82	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	88	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	92	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	84	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	74	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	70	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	70	<0.05	<0.05	0	90	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	99	70	103	102	1	92	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			29/07/2024	70	29/07/2024	29/07/2024		29/07/2024	[NT]
Date analysed	-			30/07/2024	70	30/07/2024	30/07/2024		30/07/2024	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	88	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	84	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	90	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	92	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	104	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	86	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	94	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	96	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	94	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	100	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Mirex	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	108	70	105	103	2	105	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			29/07/2024	70	29/07/2024	29/07/2024		29/07/2024	[NT]
Date analysed	-			30/07/2024	70	30/07/2024	30/07/2024		30/07/2024	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	90	[NT]
Mevinphos	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Phorate	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Disulfoton	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Parathion-Methyl	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	88	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	82	[NT]
Malathion	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	82	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	80	[NT]
Fenthion	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	74	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Methidathion	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Fenamiphos	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	92	[NT]
Phosalone	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Coumaphos	mg/kg	0.1	Org-022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Surrogate 4-Chloro-3-NBTF	%		Org-022/025	108	70	105	103	2	105	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			29/07/2024	70	29/07/2024	29/07/2024		29/07/2024	[NT]
Date analysed	-			30/07/2024	70	30/07/2024	30/07/2024		30/07/2024	[NT]
Aroclor 1016	mg/kg	0.1	Org-021/022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021/022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021/022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021/022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021/022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021/022/025	<0.1	70	<0.1	<0.1	0	108	[NT]
Aroclor 1260	mg/kg	0.1	Org-021/022/025	<0.1	70	<0.1	<0.1	0	[NT]	[NT]
Surrogate 2-Fluorobiphenyl	%		Org-021/022/025	105	70	99	98	1	99	[NT]

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date prepared	-			29/07/2024	[NT]	[NT]	[NT]	[NT]	29/07/2024	[NT]
Date analysed	-			29/07/2024	[NT]	[NT]	[NT]	[NT]	29/07/2024	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date prepared	-			29/07/2024	70	29/07/2024	29/07/2024		29/07/2024	[NT]
Date analysed	-			30/07/2024	70	30/07/2024	30/07/2024		30/07/2024	[NT]
Arsenic	mg/kg	4	Metals-020	<4	70	10	11	10	114	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	70	<0.4	<0.4	0	107	[NT]
Chromium	mg/kg	1	Metals-020	<1	70	23	23	0	108	[NT]
Copper	mg/kg	1	Metals-020	<1	70	12	12	0	113	[NT]
Lead	mg/kg	1	Metals-020	<1	70	30	29	3	111	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	70	<0.1	<0.1	0	98	[NT]
Nickel	mg/kg	1	Metals-020	<1	70	12	11	9	113	[NT]
Zinc	mg/kg	1	Metals-020	<1	70	32	32	0	108	[NT]

QUALITY CONTROL: PFAS in Soils Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			29/07/2024	[NT]	[NT]	[NT]	[NT]	29/07/2024	[NT]
Date analysed	-			29/07/2024	[NT]	[NT]	[NT]	[NT]	29/07/2024	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	95	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	97	[NT]
Perfluorooctanoic acid PFOA	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	93	[NT]
6:2 FTS	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	93	[NT]
8:2 FTS	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	94	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	96	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	96	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	104	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	107	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	103	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	108	[NT]	[NT]	[NT]	[NT]	107	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	107	[NT]	[NT]	[NT]	[NT]	106	[NT]

QUALITY CONTROL: CEC					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			31/07/2024	[NT]	[NT]	[NT]	[NT]	31/07/2024	[NT]
Date analysed	-			31/07/2024	[NT]	[NT]	[NT]	[NT]	31/07/2024	[NT]
Exchangeable Ca	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Exchangeable K	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Exchangeable Mg	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Exchangeable Na	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	David Holden

Sample Login Details

Your reference	207476.06, Erskine Park (Stage 2)
Envirolab Reference	356818-A
Date Sample Received	17/07/2024
Date Instructions Received	25/07/2024
Date Results Expected to be Reported	01/08/2024

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	181 Soil, 1 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10
Cooling Method	Ice
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	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	PFAS in Soils Short	CEC	On Hold
TP229-0-0.2											✓	
TP229-0.5-0.7												✓
TP229-1-1.2												✓
TP229-1.9-2.1												✓
TP229-2.3-2.5												✓
TP230-0-0.2												✓
TP230-0.5-0.7												✓
TP230-1-1.2												✓
TP230-1.6-1.8												✓
TP230-2-2.2												✓
TP230-2.6-2.8												✓
TP231-0-0.2												✓
TP231-0.3-0.5												✓
TP231-0.8-1												✓
TP231-1.2-1.4												✓
TP231-2.2-2.4												✓
TP231-3-3.2												✓
TP232-0-0.2												✓
TP232-0.3-0.5												✓
TP232-1-1.2												✓
TP232-1.3-1.5												✓
TP232-1.6-1.8												✓
TP233-0-0.2												✓
TP233-0.5-0.7												✓
TP233-1-1.2												✓
TP233-1.4-1.6												✓
TP233-2.2-2.4												✓
TP233-2.7-2.9												✓
TP234-0-0.2												✓
TP234-0.3-0.5												✓
TP234-0.8-1												✓
TP234-1.2-1.4												✓

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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	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	PFAS in Soils Short	CEC	On Hold
TP234-1.8-2												✓
TP234-2.1-2.3												✓
TP234-2.3-2.5												✓
TP235-0-0.2	✓	✓	✓					✓		✓		
TP235-0.3-0.5												✓
TP235-0.8-1												✓
TP235-1.7-1.9												✓
TP235-2.2-2.4												✓
TP235-2.4-2.6												✓
TP236-0-0.2												✓
TP236-0.3-0.5												✓
TP236-0.8-1												✓
TP236-1.2-1.4												✓
TP236-2.4-2.6												✓
TP236-2.7-2.9												✓
TP237-0-0.2												✓
TP237-0.3-0.5												✓
TP237-0.8-1												✓
TP237-1.8-2												✓
TP237-2.7-2.9												✓
TP237-3-3.2												✓
TP238-0-0.2												✓
TP238-0.3-0.5												✓
TP238-0.8-1												✓
TP238-1.6-1.8												✓
TP238-2-2.2												✓
TP238-2.3-2.5												✓
TP239-0-0.2												✓
TP239-0.5-0.7												✓
TP239-1-1.2												✓
TP239-1.8-2												✓
TP239-2.1-2.3												✓

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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	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	PFAS in Soils Short	CEC	On Hold
TP239-2.4-2.6												✓
TP240-0-0.2												✓
TP240-0.3-0.5												✓
TP240-0.8-1												✓
TP240-1.8-2												✓
TP240-2-2.2	✓	✓	✓	✓	✓	✓	✓	✓				
TP240-2.3-2.5												✓
TP240-2.7-2.9												✓
TP241-0-0.2												✓
TP241-0.5-0.7												✓
TP241-1-1.2												✓
TP241-1.5-1.7												✓
TP241-2-2.2												✓
TP242-0-0.2												✓
TP242-0.3-0.5												✓
TP242-0.8-1												✓
TP242-1.6-1.8												✓
TP242-2.1-2.3												✓
TP242-2.3-2.5												✓
TP243-0-0.2												✓
TP243-0.4-0.6									✓			
TP243-0.7-0.9									✓			
TP243-1.6-1.7									✓			
TP243-1.8-2												✓
TP243-2.2-2.4												✓
TP244-0-0.2												✓
TP244-0.5-0.7												✓
TP244-1-1.2												✓
TP244-2-2.2												✓
TP244-2.2-2.3												✓
TP244-2.4-2.6												✓
TP245-0-0.2												✓

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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	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	PFAS in Soils Short	CEC	On Hold
TP245-0.5-0.7												✓
TP245-1-1.2												✓
TP245-1.8-2												✓
TP245-2.1-2.3												✓
TP245-2.4-2.6												✓
TP246-0-0.2												✓
TP246-0.4-0.6												✓
TP246-0.9-1.1												✓
TP246-1.7-1.9												✓
TP246-2.1-2.3												✓
TP246-2.4-2.6												✓
TP247-0-0.2												✓
TP247-0.5-0.7												✓
TP247-0.9-1.1												✓
TP247-1.3-1.5												✓
TP247-2.1-2.3												✓
TP247-2.3-2.5												✓
TP247-2.6-2.8												✓
TP248-0-0.2												✓
TP248-0.5-0.7												✓
TP248-1-1.2												✓
TP248-1.6-1.8												✓
TP248-1.9-2.1												✓
TP248-2.2-2.4												✓
TP249-0-0.2												✓
TP249-0.5-0.7												✓
TP249-1-1.2												✓
TP249-1.4-1.6												✓
TP249-2.25-2.35												✓
TP249-2.4-2.6												✓
TP249-2.8-3												✓
TP250-0-0.2												✓

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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	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	PFAS in Soils Short	CEC	On Hold
TP250-0.3-0.5												✓
TP250-0.9-1												✓
TP250-1.1-1.3												✓
TP250-1.5-1.7												✓
TP250-2.2-2.3												✓
TP250-2.4-2.6												✓
TP250-2.7-2.9												✓
TP251-0-0.2												✓
TP251-0.5-0.7												✓
TP251-1-1.2												✓
TP251-1.7-1.8												✓
TP251-1.9-2.1												✓
TP251-2.1-2.3												✓
TP252-0-0.2												✓
TP252-0.4-0.6												✓
TP252-0.9-1.1												✓
TP252-1.4-1.6												✓
TP252-2.2-2.3												✓
TP252-2.4-2.6												✓
TP252-2.6-2.8												✓
TP253-0-0.2												✓
TP253-0.5-0.7												✓
TP253-1-1.2												✓
TP253-2-2.2												✓
TP253-2.3-2.5												✓
TP254-0-0.2												✓
TP254-0.5-0.7												✓
TP254-1-1.2												✓
TP254-1.6-1.8												✓
TP254-2.6-2.8												✓
SS3-0-0.2												✓
SS4-0-0.2												✓

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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	Misc Soil - Inorg	Acid Extractable metalsin soil	Asbestos ID - soils NEPM	PFAS in Soils Short	CEC	On Hold
SS5-0-0.2												✓
BD1/20240710												✓
BD2/20240710												✓
BD3/20240710												✓
BD4/20240710												✓
BD1/20240715												✓
BD2/20240715												✓
BD3/20240715												✓
BD4/20240715												✓
BD5/20240715												✓
BD6/20240715												✓
BD1/20240716												✓
BD2/20240716												✓
BD3/20240716												✓
BD4/20240716												✓
TS-160724												✓
TB-160724												✓
RINS-160724												✓
241-2.9-3.1												✓
241-2.6-2.8												✓
247-1.0-1.2												✓
243-1.6-1.8												✓
TP229 - [TRIPLICATE]-0-0.2												✓

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 356818-B

Client Details

Client	Douglas Partners Pty Ltd
Attention	Patrick Johansson
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**207476.06, Erskine Park (Stage 2)**
Number of Samples	Additional analysis
Date samples received	17/07/2024
Date completed instructions received	02/08/2024

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	09/08/2024
Date of Issue	09/08/2024

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Results Approved By
Amanda Chui, LC/Air Toxics Supervisor

Authorised By
Nancy Zhang, Laboratory Manager

PFAS in TCLP Short				
Our Reference		356818-B-22	356818-B-78	356818-B-122
Your Reference	UNITS	TP232	TP242	TP249
Depth		1.6-1.8	0-0.2	0.5-0.7
Date Sampled		16/07/24	15/07/24	10/07/24
Type of sample		Soil	Soil	Soil
Date prepared	-	07/08/2024	07/08/2024	07/08/2024
Date analysed	-	07/08/2024	07/08/2024	07/08/2024
pH of soil for fluid# determ.	pH units	6.3	7.0	6.6
pH of soil TCLP (after HCl)	pH units	1.8	1.9	1.9
Extraction fluid used		1	1	1
pH of final Leachate	pH units	4.9	4.9	4.9
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.01	<0.01	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	<0.01	<0.01	<0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01	<0.01	<0.01
6:2 FTS	µg/L	<0.01	<0.01	<0.01
8:2 FTS	µg/L	<0.02	<0.02	<0.02
Surrogate $^{13}C_8$ *PFOS*	%	104	103	100
Surrogate $^{13}C_2$ *PFOA*	%	103	100	104
Extracted ISTD $^{18}O_2$ *PFHxS*	%	89	92	91
Extracted ISTD $^{13}C_4$ *PFOS*	%	86	90	92
Extracted ISTD $^{13}C_4$ *PFOA*	%	100	101	104
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	103	108	109
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	136	136	136
Total Positive PFHxS & PFOS	µg/L	<0.01	<0.01	<0.01
Total Positive PFOS & PFOA	µg/L	<0.01	<0.01	<0.01
Total Positive PFAS	µg/L	<0.01	<0.01	<0.01

Method ID	Methodology Summary
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439. Please note that the mass used may be scaled down from default based on sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
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: PFAS in TCLP Short						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	356818-B-22
Date prepared	-			07/08/2024	[NT]	[NT]	[NT]	[NT]	07/08/2024	07/08/2024
Date analysed	-			07/08/2024	[NT]	[NT]	[NT]	[NT]	07/08/2024	07/08/2024
Perfluorohexanesulfonic acid - PFHxS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	103	102
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	100	100
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	103	104
6:2 FTS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	99	95
8:2 FTS	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	103	110
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	107	102
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	104	[NT]	[NT]	[NT]	[NT]	101	102
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	90	[NT]	[NT]	[NT]	[NT]	88	91
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	91	[NT]	[NT]	[NT]	[NT]	86	87
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	103	[NT]	[NT]	[NT]	[NT]	98	99
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	107	[NT]	[NT]	[NT]	[NT]	107	109
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	136	[NT]	[NT]	[NT]	[NT]	129	122

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

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SAMPLE RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	Patrick Johansson

Sample Login Details

Your reference	207476.06, Erskine Park (Stage 2)
Envirolab Reference	356818-B
Date Sample Received	17/07/2024
Date Instructions Received	02/08/2024
Date Results Expected to be Reported	09/08/2024

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	Additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10
Cooling Method	Ice
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	PFAS in TCLP Short	On Hold
TP229-0-0.2		✓
TP229-0.5-0.7		✓
TP229-1-1.2		✓
TP229-1.9-2.1		✓
TP229-2.3-2.5		✓
TP230-0-0.2		✓
TP230-0.5-0.7		✓
TP230-1-1.2		✓
TP230-1.6-1.8		✓
TP230-2-2.2		✓
TP230-2.6-2.8		✓
TP231-0-0.2		✓
TP231-0.3-0.5		✓
TP231-0.8-1		✓
TP231-1.2-1.4		✓
TP231-2.2-2.4		✓
TP231-3-3.2		✓
TP232-0-0.2		✓
TP232-0.3-0.5		✓
TP232-1-1.2		✓
TP232-1.3-1.5		✓
TP232-1.6-1.8	✓	
TP233-0-0.2		✓
TP233-0.5-0.7		✓
TP233-1-1.2		✓
TP233-1.4-1.6		✓
TP233-2.2-2.4		✓
TP233-2.7-2.9		✓
TP234-0-0.2		✓
TP234-0.3-0.5		✓
TP234-0.8-1		✓
TP234-1.2-1.4		✓

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Sample ID	PFAS in TCLP Short	On Hold
TP234-1.8-2		✓
TP234-2.1-2.3		✓
TP234-2.3-2.5		✓
TP235-0-0.2		✓
TP235-0.3-0.5		✓
TP235-0.8-1		✓
TP235-1.7-1.9		✓
TP235-2.2-2.4		✓
TP235-2.4-2.6		✓
TP236-0-0.2		✓
TP236-0.3-0.5		✓
TP236-0.8-1		✓
TP236-1.2-1.4		✓
TP236-2.4-2.6		✓
TP236-2.7-2.9		✓
TP237-0-0.2		✓
TP237-0.3-0.5		✓
TP237-0.8-1		✓
TP237-1.8-2		✓
TP237-2.7-2.9		✓
TP237-3-3.2		✓
TP238-0-0.2		✓
TP238-0.3-0.5		✓
TP238-0.8-1		✓
TP238-1.6-1.8		✓
TP238-2-2.2		✓
TP238-2.3-2.5		✓
TP239-0-0.2		✓
TP239-0.5-0.7		✓
TP239-1-1.2		✓
TP239-1.8-2		✓
TP239-2.1-2.3		✓

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Sample ID	PFAS in TCLP Short	On Hold
TP239-2.4-2.6		✓
TP240-0-0.2		✓
TP240-0.3-0.5		✓
TP240-0.8-1		✓
TP240-1.8-2		✓
TP240-2-2.2		✓
TP240-2.3-2.5		✓
TP240-2.7-2.9		✓
TP241-0-0.2		✓
TP241-0.5-0.7		✓
TP241-1-1.2		✓
TP241-1.5-1.7		✓
TP241-2-2.2		✓
TP242-0-0.2	✓	
TP242-0.3-0.5		✓
TP242-0.8-1		✓
TP242-1.6-1.8		✓
TP242-2.1-2.3		✓
TP242-2.3-2.5		✓
TP243-0-0.2		✓
TP243-0.4-0.6		✓
TP243-0.7-0.9		✓
TP243-1.6-1.7		✓
TP243-1.8-2		✓
TP243-2.2-2.4		✓
TP244-0-0.2		✓
TP244-0.5-0.7		✓
TP244-1-1.2		✓
TP244-2-2.2		✓
TP244-2.2-2.3		✓
TP244-2.4-2.6		✓
TP245-0-0.2		✓

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	PFAS in TCLP Short	On Hold
TP245-0.5-0.7		✓
TP245-1-1.2		✓
TP245-1.8-2		✓
TP245-2.1-2.3		✓
TP245-2.4-2.6		✓
TP246-0-0.2		✓
TP246-0.4-0.6		✓
TP246-0.9-1.1		✓
TP246-1.7-1.9		✓
TP246-2.1-2.3		✓
TP246-2.4-2.6		✓
TP247-0-0.2		✓
TP247-0.5-0.7		✓
TP247-0.9-1.1		✓
TP247-1.3-1.5		✓
TP247-2.1-2.3		✓
TP247-2.3-2.5		✓
TP247-2.6-2.8		✓
TP248-0-0.2		✓
TP248-0.5-0.7		✓
TP248-1-1.2		✓
TP248-1.6-1.8		✓
TP248-1.9-2.1		✓
TP248-2.2-2.4		✓
TP249-0-0.2		✓
TP249-0.5-0.7	✓	
TP249-1-1.2		✓
TP249-1.4-1.6		✓
TP249-2.25-2.35		✓
TP249-2.4-2.6		✓
TP249-2.8-3		✓
TP250-0-0.2		✓

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www.envirolab.com.au

Sample ID	PFAS in TCLP Short	On Hold
TP250-0.3-0.5		✓
TP250-0.9-1		✓
TP250-1.1-1.3		✓
TP250-1.5-1.7		✓
TP250-2.2-2.3		✓
TP250-2.4-2.6		✓
TP250-2.7-2.9		✓
TP251-0-0.2		✓
TP251-0.5-0.7		✓
TP251-1-1.2		✓
TP251-1.7-1.8		✓
TP251-1.9-2.1		✓
TP251-2.1-2.3		✓
TP252-0-0.2		✓
TP252-0.4-0.6		✓
TP252-0.9-1.1		✓
TP252-1.4-1.6		✓
TP252-2.2-2.3		✓
TP252-2.4-2.6		✓
TP252-2.6-2.8		✓
TP253-0-0.2		✓
TP253-0.5-0.7		✓
TP253-1-1.2		✓
TP253-2-2.2		✓
TP253-2.3-2.5		✓
TP254-0-0.2		✓
TP254-0.5-0.7		✓
TP254-1-1.2		✓
TP254-1.6-1.8		✓
TP254-2.6-2.8		✓
SS3-0-0.2		✓
SS4-0-0.2		✓

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Sample ID	PFAS in TCLP Short	On Hold
SS5-0-0.2		✓
BD1/20240710		✓
BD2/20240710		✓
BD3/20240710		✓
BD4/20240710		✓
BD1/20240715		✓
BD2/20240715		✓
BD3/20240715		✓
BD4/20240715		✓
BD5/20240715		✓
BD6/20240715		✓
BD1/20240716		✓
BD2/20240716		✓
BD3/20240716		✓
BD4/20240716		✓
TS-160724		✓
TB-160724		✓
RINS-160724		✓
241-2.9-3.1		✓
241-2.6-2.8		✓
247-1.0-1.2		✓
243-1.6-1.8		✓
TP229 - [TRIPLICATE]-0-0.2		✓

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.

CERTIFICATE OF ANALYSIS

Work Order	: **ES2423910**	Page	: 1 of 6
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services ES
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 2 8784 8555
Project	: 207476.06 Erskine Park (Stage 1)	Date Samples Received	: 19-Jul-2024 10:05
Order number	: ----	Date Analysis Commenced	: 22-Jul-2024
C-O-C number	: ----	Issue Date	: 26-Jul-2024 14:03
Sampler	: PJ		
Site	:		
Quote number	: EN/222		
No. of samples received	: 3		
No. of samples analysed	: 3		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Sydney, NATA accreditation no. 825, site no. 10911.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD4/20240711	BD3/20240712	BD4/20240712	----	----
			Sampling date / time	11-Jul-2024 00:00	12-Jul-2024 00:00	12-Jul-2024 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2423910-001	ES2423910-002	ES2423910-003	-------	--------
				Result	Result	Result	---	---
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**12.2**	**14.9**	**17.1**	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	**6**	<5	<5	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	**17**	**13**	**4**	----	----
Copper	7440-50-8	5	mg/kg	**17**	**31**	**14**	----	----
Lead	7439-92-1	5	mg/kg	**8**	**28**	**9**	----	----
Nickel	7440-02-0	2	mg/kg	**9**	**8**	**3**	----	----
Zinc	7440-66-6	5	mg/kg	**26**	**49**	**28**	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD4/20240711	BD3/20240712	BD4/20240712	----	----
			Sampling date / time	11-Jul-2024 00:00	12-Jul-2024 00:00	12-Jul-2024 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2423910-001	ES2423910-002	ES2423910-003	--------	--------
				Result	Result	Result	---	---
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	**0.6**	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	**1.2**	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	----	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD4/20240711	BD3/20240712	BD4/20240712	----	----
			Sampling date / time	11-Jul-2024 00:00	12-Jul-2024 00:00	12-Jul-2024 00:00	----	----
Compound	CAS Number	LOR	Unit	ES2423910-001	ES2423910-002	ES2423910-003	--------	--------
				Result	Result	Result	---	---
EP080: BTEXN - Continued								
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**87.9**	**82.6**	**83.1**	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	**82.2**	**83.1**	**81.7**	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%	**54.2**	**60.2**	**55.7**	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**86.9**	**88.3**	**82.2**	----	----
Anthracene-d10	1719-06-8	0.5	%	**83.2**	**80.3**	**87.1**	----	----
4-Terphenyl-d14	1718-51-0	0.5	%	**94.4**	**93.9**	**82.2**	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**89.3**	**95.3**	**93.2**	----	----
Toluene-D8	2037-26-5	0.2	%	**92.2**	**99.9**	**99.6**	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	**99.6**	**102**	**99.2**	----	----

Surrogate Control Limits

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	63	125
Toluene-D8	2037-26-5	67	124
4-Bromofluorobenzene	460-00-4	66	131

QUALITY CONTROL REPORT

Work Order	: **ES2423910**	Page	: 1 of 7
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services ES
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 2 8784 8555
Project	: 207476.06 Erskine Park (Stage 1)	Date Samples Received	: 19-Jul-2024
Order number	: ----	Date Analysis Commenced	: 22-Jul-2024
C-O-C number	: ----	Issue Date	: 26-Jul-2024
Sampler	: PJ		
Site	:		
Quote number	: EN/222		
No. of samples received	: 3		
No. of samples analysed	: 3		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5947231)									
ES2423823-058	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	26	27	0.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	98	104	6.0	0% - 20%
		EG005T: Arsenic	7440-38-2	5	mg/kg	9	8	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	25	25	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	14	14	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	70	69	1.7	0% - 50%
ES2423824-014	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	26	25	0.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	104	100	4.1	0% - 20%
		EG005T: Arsenic	7440-38-2	5	mg/kg	14	10	30.8	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	30	29	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	16	16	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	80	77	3.8	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5947243)									
ES2423823-073	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	9.7	9.3	3.8	No Limit
ES2424136-001	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	14.6	14.6	0.0	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5947230)									
ES2423823-058	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2423824-014	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5939928)									
ES2423893-003	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5939889)									
ES2423899-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5939929)									
ES2423893-003	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5939889)									
ES2423899-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5939929)									
ES2423893-003	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080: BTEXN (QC Lot: 5939889)									
ES2423899-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080: BTEXN (QC Lot: 5939889) - continued									
ES2423899-001	Anonymous	EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5947231)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	96.9	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	97.1	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	112	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	101	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	95.4	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	97.2	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	90.5	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5947230)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	85.2	70.0	125
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5939928)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	94.2	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	94.4	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	92.7	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	94.1	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	93.2	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	90.2	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	93.5	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	94.5	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	90.0	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	89.7	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	99.3	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	90.8	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	93.8	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	82.1	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	84.7	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	88.4	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5939889)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	101	72.2	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5939929)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	107	75.0	129

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	LCS: Spike Recovery (%)	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5939929) - continued								
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	108	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	109	71.0	129
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5939889)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	95.8	72.4	133
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5939929)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	111	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	106	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	116	63.0	131
EP080: BTEXN (QCLot: 5939889)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	101	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	98.4	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	100	77.4	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	107	78.2	121
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	104	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	100	78.8	122

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5947231)							
ES2423823-058	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	95.4	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	91.4	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	98.3	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	96.8	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	91.6	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	113	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	93.5	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5947230)							
ES2423823-058	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	99.7	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5939928)							
ES2423893-003	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	95.1	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5939928) - continued							
ES2423893-003	Anonymous	EP075(SIM): Pyrene	129-00-0	10 mg/kg	101	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5939889)							
ES2423899-001	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	90.7	60.4	142
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5939929)							
ES2423893-003	Anonymous	EP071: C10 - C14 Fraction	----	480 mg/kg	126	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	110	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	107	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5939889)							
ES2423899-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	89.0	61.1	142
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5939929)							
ES2423893-003	Anonymous	EP071: >C10 - C16 Fraction	----	860 mg/kg	107	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	110	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	116	52.0	132
EP080: BTEXN (QCLot: 5939889)							
ES2423899-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	89.8	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	86.8	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	92.5	67.4	123
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	95.6	66.4	121
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	94.5	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	87.0	61.1	115

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2423910**	Page	: 1 of 5
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Telephone	: +61 2 8784 8555
Project	: 207476.06 Erskine Park (Stage 1)	Date Samples Received	: 19-Jul-2024
Site	:	Issue Date	: 26-Jul-2024
Sampler	: PJ	No. of samples received	: 3
Order number	: ----	No. of samples analysed	: 3

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) BD4/20240711	**11-Jul-2024**	**----**	----	----	**25-Jul-2024**	25-Jul-2024	✓
Soil Glass Jar - Unpreserved (EA055) BD3/20240712, BD4/20240712	**12-Jul-2024**	**----**	----	----	**25-Jul-2024**	26-Jul-2024	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) BD4/20240711	**11-Jul-2024**	**25-Jul-2024**	07-Jan-2025	✓	**25-Jul-2024**	07-Jan-2025	✓
Soil Glass Jar - Unpreserved (EG005T) BD3/20240712, BD4/20240712	**12-Jul-2024**	**25-Jul-2024**	08-Jan-2025	✓	**25-Jul-2024**	08-Jan-2025	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) BD4/20240711	**11-Jul-2024**	**25-Jul-2024**	08-Aug-2024	✓	**26-Jul-2024**	08-Aug-2024	✓
Soil Glass Jar - Unpreserved (EG035T) BD3/20240712, BD4/20240712	**12-Jul-2024**	**25-Jul-2024**	09-Aug-2024	✓	**26-Jul-2024**	09-Aug-2024	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM)) BD4/20240711	**11-Jul-2024**	**23-Jul-2024**	25-Jul-2024	✓	**24-Jul-2024**	01-Sep-2024	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) BD3/20240712, BD4/20240712	**12-Jul-2024**	**23-Jul-2024**	26-Jul-2024	✓	**24-Jul-2024**	01-Sep-2024	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080) BD4/20240711	**11-Jul-2024**	**22-Jul-2024**	25-Jul-2024	✓	**22-Jul-2024**	25-Jul-2024	✓
Soil Glass Jar - Unpreserved (EP071) BD4/20240711	**11-Jul-2024**	**23-Jul-2024**	25-Jul-2024	✓	**25-Jul-2024**	01-Sep-2024	✓
Soil Glass Jar - Unpreserved (EP080) BD3/20240712	**12-Jul-2024**	**22-Jul-2024**	26-Jul-2024	✓	**22-Jul-2024**	26-Jul-2024	✓
Soil Glass Jar - Unpreserved (EP080) BD4/20240712	**12-Jul-2024**	**22-Jul-2024**	26-Jul-2024	✓	**23-Jul-2024**	26-Jul-2024	✓
Soil Glass Jar - Unpreserved (EP071) BD3/20240712, BD4/20240712	**12-Jul-2024**	**23-Jul-2024**	26-Jul-2024	✓	**25-Jul-2024**	01-Sep-2024	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080) BD4/20240711	**11-Jul-2024**	**22-Jul-2024**	25-Jul-2024	✓	**22-Jul-2024**	25-Jul-2024	✓
Soil Glass Jar - Unpreserved (EP071) BD4/20240711	**11-Jul-2024**	**23-Jul-2024**	25-Jul-2024	✓	**25-Jul-2024**	01-Sep-2024	✓
Soil Glass Jar - Unpreserved (EP080) BD3/20240712	**12-Jul-2024**	**22-Jul-2024**	26-Jul-2024	✓	**22-Jul-2024**	26-Jul-2024	✓
Soil Glass Jar - Unpreserved (EP080) BD4/20240712	**12-Jul-2024**	**22-Jul-2024**	26-Jul-2024	✓	**23-Jul-2024**	26-Jul-2024	✓
Soil Glass Jar - Unpreserved (EP071) BD3/20240712, BD4/20240712	**12-Jul-2024**	**23-Jul-2024**	26-Jul-2024	✓	**25-Jul-2024**	01-Sep-2024	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080) BD4/20240711	**11-Jul-2024**	**22-Jul-2024**	25-Jul-2024	✓	**22-Jul-2024**	25-Jul-2024	✓
Soil Glass Jar - Unpreserved (EP080) BD3/20240712	**12-Jul-2024**	**22-Jul-2024**	26-Jul-2024	✓	**22-Jul-2024**	26-Jul-2024	✓
Soil Glass Jar - Unpreserved (EP080) BD4/20240712	**12-Jul-2024**	**22-Jul-2024**	26-Jul-2024	✓	**23-Jul-2024**	26-Jul-2024	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2423910**

Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services ES
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: david.holden@douglaspartners.com.au	E-mail	: ALSEnviro.Sydney@ALSGlobal.com
Telephone	: +61 02 9809 0666	Telephone	: +61 2 8784 8555
Facsimile	: +61 02 9809 4095	Facsimile	: +61-2-8784 8500
Project	: 207476.06 Erskine Park (Stage 1)	Page	: 1 of 3
Order number	: ----	Quote number	: EM2017DOUPAR0002 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	:		
Sampler	: PJ		

Dates

Date Samples Received	: 19-Jul-2024 10:05	Issue Date	: 22-Jul-2024
Client Requested Due Date	: 26-Jul-2024	Scheduled Reporting Date	: **26-Jul-2024**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 10.1'C, 9.8'C, 9.5'C - Ice Bricks present
Receipt Detail	:	No. of samples received / analysed	: 3 / 3

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Sydney, NATA accreditation no. 825, site no. 10911.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	*Sampling date / time*	*Sample ID*	SOIL - EA055-103 Moisture Content	SOIL - S-26 8 metals/TRH/BTEXN/PAH
ES2423910-001	11-Jul-2024 00:00	BD4/20240711	✓	✓
ES2423910-002	12-Jul-2024 00:00	BD3/20240712	✓	✓
ES2423910-003	12-Jul-2024 00:00	BD4/20240712	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS PAYABLE INVOICES

- A4 - AU Tax Invoice (INV)	Email	accounts.payable.invoices@douglaspartners.com.au

DAVID HOLDEN

- *AU Certificate of Analysis - NATA (COA)	Email	david.holden@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	david.holden@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	david.holden@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	david.holden@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	david.holden@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	david.holden@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	david.holden@douglaspartners.com.au

ESDAT ESDAT

- EDI Format - ESDAT (ESDAT)	Email	ESdat_AU+douglaspartners@ESdatLabSync.net

Patrick Johansson

- *AU Certificate of Analysis - NATA (COA)	Email	patrick.johansson@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	patrick.johansson@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	patrick.johansson@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	patrick.johansson@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	patrick.johansson@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	patrick.johansson@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	patrick.johansson@douglaspartners.com.au

Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

356782

Project No:	207476.06	**Suburb:**	Erskine Park (Stage 1)	**To:**	Envirolab Services
Project Manager:	David Holden	**Order Number:**		**Sampler:**	PJ
Email:	David.Holden@douglaspartners.com.au; patrick.johansson@douglaspartners.com.au			**Attn:**	Sample Receipt
Turnaround time:	☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day				(02) 9910 6200 samplereceipt@envirolab.cor
Prior Storage:	☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?**	☑ No ☐ Yes, handle, transport, store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil W - water M - Material	Container Type: G - Glass Jar P - PFAS B - AFFA BAG	Analytes: Metals 8ha	BTEX	TRH	PAH								Notes/ Preservation/ Additional Requirements
1	BD4/20240711	-	-	11/07/24	S	G,P	x	x	x	x								Please send for inter-laboratory analysis
2	BD3/20240712	-	-	12/07/24	S	G,P	x	x	x	x								Please send for inter-laboratory analysis
3	BD4/20240712	-	-	12/07/24	S	G	x	x	x	x								Please send for inter-laboratory analysis

Environmental Division
Sydney
Work Order Reference
ES2423910

Telephone : +61-2-8784 8555

Metals to analyse:	8ha			**LAB RECEIPT**	
Number of samples in container:		**Transported to laboratory by:**	PJ	**Lab Ref. No:**	
Send results to:	Douglas Partners Pty Ltd			**Received by:**	
Address:	96 Hermitage Road, West Ryde NSW 211	**Phone:**	(02) 9809 0666	**Date & Time:**	17/7 1005
Relinquished by:	Patrick Johansson	**Date:**	17/07/2024	**Signed:**	

Relinquished by ELS (SYD)
T. Trinh 18.07.24

CERTIFICATE OF ANALYSIS

Work Order	: **ES2423915**	Page	: 1 of 6
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services ES
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 2 8784 8555
Project	: 207476.06 Erskine Park (Stage 2)	Date Samples Received	: 19-Jul-2024 10:05
Order number	: ----	Date Analysis Commenced	: 22-Jul-2024
C-O-C number	: ----	Issue Date	: 26-Jul-2024 14:03
Sampler	: PJ		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 2		
No. of samples analysed	: 2		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Sydney, NATA accreditation no. 825, site no. 10911.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD3/20240716	BD4/20240716	---	----	----
			Sampling date / time	16-Jul-2024 00:00	16-Jul-2024 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2423915-001	ES2423915-002	-------	--------	--------
				Result	Result	---	---	---
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**21.1**	**18.0**	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	**7**	**8**	----	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	----	----	----
Chromium	7440-47-3	2	mg/kg	**22**	**23**	----	----	----
Copper	7440-50-8	5	mg/kg	**26**	**24**	----	----	----
Lead	7439-92-1	5	mg/kg	**12**	**12**	----	----	----
Nickel	7440-02-0	2	mg/kg	**13**	**13**	----	----	----
Zinc	7440-66-6	5	mg/kg	**38**	**27**	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD3/20240716	BD4/20240716	---	---	---
			Sampling date / time	16-Jul-2024 00:00	16-Jul-2024 00:00	---	---	---
Compound	CAS Number	LOR	Unit	ES2423915-001	ES2423915-002	-------	-------	-------
				Result	Result	---	---	---
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	**0.6**	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	**1.2**	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	----	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	<50	----	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	<100	----	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	<100	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	----	----	----
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	----	----	----
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	----	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	----	----	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	----	----	----
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	BD3/20240716	BD4/20240716	---	----	----
			Sampling date / time	16-Jul-2024 00:00	16-Jul-2024 00:00	---	----	---
Compound	CAS Number	LOR	Unit	ES2423915-001	ES2423915-002	-------	--------	--------
				Result	Result	---	---	---
EP080: BTEXN - Continued								
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	<0.5	----	----	----
Naphthalene	91-20-3	1	mg/kg	<1	<1	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	**88.2**	**85.0**	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	**81.0**	**84.2**	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%	**62.9**	**60.5**	----	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	**87.4**	**86.4**	----	----	----
Anthracene-d10	1719-06-8	0.5	%	**84.7**	**85.2**	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%	**91.8**	**87.8**	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**102**	**89.8**	----	----	----
Toluene-D8	2037-26-5	0.2	%	**108**	**96.2**	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	**107**	**99.3**	----	----	----

Surrogate Control Limits

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	63	125
Toluene-D8	2037-26-5	67	124
4-Bromofluorobenzene	460-00-4	66	131

QUALITY CONTROL REPORT

Work Order	: **ES2423915**	Page	: 1 of 7
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services ES
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 02 9809 0666	Telephone	: +61 2 8784 8555
Project	: 207476.06 Erskine Park (Stage 2)	Date Samples Received	: 19-Jul-2024
Order number	: ----	Date Analysis Commenced	: 22-Jul-2024
C-O-C number	: ----	Issue Date	: 26-Jul-2024
Sampler	: PJ		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 2		
No. of samples analysed	: 2		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
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Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5947231)									
ES2423823-058	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	26	27	0.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	98	104	6.0	0% - 20%
		EG005T: Arsenic	7440-38-2	5	mg/kg	9	8	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	25	25	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	14	14	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	70	69	1.7	0% - 50%
ES2423824-014	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	26	25	0.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	104	100	4.1	0% - 20%
		EG005T: Arsenic	7440-38-2	5	mg/kg	14	10	30.8	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	30	29	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	16	16	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	80	77	3.8	0% - 50%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5947243)									
ES2423823-073	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	9.7	9.3	3.8	No Limit
ES2424136-001	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	14.6	14.6	0.0	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 5947230)									
ES2423823-058	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
ES2423824-014	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 5939928)									
ES2423893-003	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5939889)									
ES2423899-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 5939929)									
ES2423893-003	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5939889)									
ES2423899-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 5939929)									
ES2423893-003	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080: BTEXN (QC Lot: 5939889)									
ES2423899-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080: BTEXN (QC Lot: 5939889) - continued									
ES2423899-001	Anonymous	EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5947231)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	121.1 mg/kg	96.9	88.0	113
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	0.74 mg/kg	97.1	70.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	19.6 mg/kg	112	68.0	132
EG005T: Copper	7440-50-8	5	mg/kg	<5	52.9 mg/kg	101	89.0	111
EG005T: Lead	7439-92-1	5	mg/kg	<5	60.8 mg/kg	95.4	82.0	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.3 mg/kg	97.2	80.0	120
EG005T: Zinc	7440-66-6	5	mg/kg	<5	139.3 mg/kg	90.5	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5947230)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.087 mg/kg	85.2	70.0	125
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5939928)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	94.2	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	94.4	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	92.7	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	94.1	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	93.2	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	90.2	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	93.5	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	94.5	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	90.0	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	89.7	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	99.3	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	90.8	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	93.8	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	82.1	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	84.7	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	88.4	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5939889)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	101	72.2	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5939929)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	107	75.0	129

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5939929) - continued								
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	108	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	109	71.0	129
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5939889)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	95.8	72.4	133
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5939929)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	111	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	106	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	116	63.0	131
EP080: BTEXN (QCLot: 5939889)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	101	76.0	124
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	98.4	78.5	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	100	77.4	121
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	107	78.2	121
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	104	81.3	121
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	100	78.8	122

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5947231)							
ES2423823-058	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	95.4	70.0	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	91.4	70.0	130
		EG005T: Chromium	7440-47-3	50 mg/kg	98.3	68.0	132
		EG005T: Copper	7440-50-8	250 mg/kg	96.8	70.0	130
		EG005T: Lead	7439-92-1	250 mg/kg	91.6	70.0	130
		EG005T: Nickel	7440-02-0	50 mg/kg	113	70.0	130
		EG005T: Zinc	7440-66-6	250 mg/kg	93.5	66.0	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 5947230)							
ES2423823-058	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	99.7	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5939928)							
ES2423893-003	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	95.1	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 5939928) - continued							
ES2423893-003	Anonymous	EP075(SIM): Pyrene	129-00-0	10 mg/kg	101	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5939889)							
ES2423899-001	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	90.7	60.4	142
EP080/071: Total Petroleum Hydrocarbons (QCLot: 5939929)							
ES2423893-003	Anonymous	EP071: C10 - C14 Fraction	----	480 mg/kg	126	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	110	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	107	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5939889)							
ES2423899-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	89.0	61.1	142
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 5939929)							
ES2423893-003	Anonymous	EP071: >C10 - C16 Fraction	----	860 mg/kg	107	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	110	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	116	52.0	132
EP080: BTEXN (QCLot: 5939889)							
ES2423899-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	89.8	62.1	122
		EP080: Toluene	108-88-3	2.5 mg/kg	86.8	66.6	119
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	92.5	67.4	123
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	95.6	66.4	121
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	94.5	70.7	121
		EP080: Naphthalene	91-20-3	2.5 mg/kg	87.0	61.1	115

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2423915**	Page	: 1 of 4
Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Telephone	: +61 2 8784 8555
Project	: 207476.06 Erskine Park (Stage 2)	Date Samples Received	: 19-Jul-2024
Site	: ----	Issue Date	: 26-Jul-2024
Sampler	: PJ	No. of samples received	: 2
Order number	: ----	No. of samples analysed	: 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055)								
BD3/20240716,	BD4/20240716	**16-Jul-2024**	**----**	----	----	**25-Jul-2024**	30-Jul-2024	✓
EG005(ED093)T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
BD3/20240716,	BD4/20240716	**16-Jul-2024**	**25-Jul-2024**	12-Jan-2025	✓	**25-Jul-2024**	12-Jan-2025	✓
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T)								
BD3/20240716,	BD4/20240716	**16-Jul-2024**	**25-Jul-2024**	13-Aug-2024	✓	**26-Jul-2024**	13-Aug-2024	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075(SIM))								
BD3/20240716,	BD4/20240716	**16-Jul-2024**	**23-Jul-2024**	30-Jul-2024	✓	**24-Jul-2024**	01-Sep-2024	✓
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP080)								
BD3/20240716,	BD4/20240716	**16-Jul-2024**	**22-Jul-2024**	30-Jul-2024	✓	**23-Jul-2024**	30-Jul-2024	✓
Soil Glass Jar - Unpreserved (EP071)								
BD3/20240716,	BD4/20240716	**16-Jul-2024**	**23-Jul-2024**	30-Jul-2024	✓	**25-Jul-2024**	01-Sep-2024	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Soil Glass Jar - Unpreserved (EP080)								
BD3/20240716,	BD4/20240716	**16-Jul-2024**	**22-Jul-2024**	30-Jul-2024	✓	**23-Jul-2024**	30-Jul-2024	✓
Soil Glass Jar - Unpreserved (EP071)								
BD3/20240716,	BD4/20240716	**16-Jul-2024**	**23-Jul-2024**	30-Jul-2024	✓	**25-Jul-2024**	01-Sep-2024	✓
EP080: BTEXN								
Soil Glass Jar - Unpreserved (EP080)								
BD3/20240716,	BD4/20240716	**16-Jul-2024**	**22-Jul-2024**	30-Jul-2024	✓	**23-Jul-2024**	30-Jul-2024	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2423915**

Client	: **DOUGLAS PARTNERS PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR DAVID HOLDEN	Contact	: Customer Services ES
Address	: 96 HERMITAGE ROAD WEST RYDE NSW, AUSTRALIA 2114	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: david.holden@douglaspartners.com.au	E-mail	: ALSEnviro.Sydney@ALSGlobal.com
Telephone	: +61 02 9809 0666	Telephone	: +61 2 8784 8555
Facsimile	: +61 02 9809 4095	Facsimile	: +61-2-8784 8500
Project	: 207476.06 Erskine Park (Stage 2)	Page	: 1 of 3
Order number	: ----	Quote number	: EM2017DOUPAR0002 (EN/222)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: PJ		

Dates

Date Samples Received	: 19-Jul-2024 10:05	Issue Date	: 22-Jul-2024
Client Requested Due Date	: 26-Jul-2024	Scheduled Reporting Date	: **26-Jul-2024**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 10.1'C, 9.8'C, 9.5'C - Ice Bricks present
Receipt Detail	:	No. of samples received / analysed	: 2 / 2

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Sydney, NATA accreditation no. 825, site no. 10911.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	*Sampling date / time*	*Sample ID*	SOIL - EA055-103 Moisture Content	SOIL - S-26 8 metals/TRH/BTEXN/PAH
ES2423915-001	16-Jul-2024 00:00	BD3/20240716	✓	✓
ES2423915-002	16-Jul-2024 00:00	BD4/20240716	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS PAYABLE INVOICES

- A4 - AU Tax Invoice (INV)	Email	accounts.payable.invoices@douglaspartners.com.au

DAVID HOLDEN

- *AU Certificate of Analysis - NATA (COA)	Email	david.holden@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	david.holden@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	david.holden@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	david.holden@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	david.holden@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	david.holden@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	david.holden@douglaspartners.com.au

ESDAT ESDAT

- EDI Format - ESDAT (ESDAT)	Email	ESdat_AU+douglaspartners@ESdatLabSync.net

Patrick Johansson

- *AU Certificate of Analysis - NATA (COA)	Email	patrick.johansson@douglaspartners.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	patrick.johansson@douglaspartners.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	patrick.johansson@douglaspartners.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	patrick.johansson@douglaspartners.com.au
- Chain of Custody (CoC) (COC)	Email	patrick.johansson@douglaspartners.com.au
- EDI Format - ESDAT (ESDAT)	Email	patrick.johansson@douglaspartners.com.au
- EDI Format - XTab (XTAB)	Email	patrick.johansson@douglaspartners.com.au

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Douglas PARTNERS

CHAIN OF CUSTODY DESPATCH SHEET

Project No: 207476.06	**Suburb:** Erskine Park (Stage 2)		**To:** Envirolab Services
Project Manager: DIH	**Order Number:**	**Sampler:** PJ	12 Ashley St, Chatswood 2067 NSW
Email: david.holden@douglaspartners.com.au; patrick.johansson@douglaspartners.com.au			**Attn:** Aileen Hie
Turnaround time: ☑ Standard ☐ 72 hour ☐ 48 hour ☐ 24 hour ☐ Same day			
Prior Storage: ☑ Fridge ☐ Freezer ☐ Esky ☐ Shelf	**Do samples contain 'potential' HBM?** ☑ No ☐ Yes, handle, transport, store in accordance with FPM HAZID)		

Lab ID	Sample ID: Location / Other ID	Depth From	Depth To	Date Sampled	Sample Type: S - soil, W - water, M - Material	Container Type: G - Glass Jar, P - PFAS, B - AFFA BAG	Analytes: Metals 8ha	BTEX	TRH	PAH									Notes/ Preservation/ Additional Requirements
1	BD3/20240716			16/07/24	S	G / P	x	x	x	x									Please send for inter-laboratory analysis
2	BD4/20240716			16/07/24	S	G / P	x	x	x	x									Please send for inter-laboratory analysis

Environmental Division Sydney
Work Order Reference
ES2423915

Telephone : +61-2-8784 8555

Metals to analyse: 8ha			
Number of samples in container:	**Transported to laboratory by:** PJ		
Send results to: Douglas Partners Pty Ltd			
Address: 96 Hermitage Rd, West Ryde 2114 NSW	**Phone:** 9809 0666		
Relinquished by: PJ	**Date:** 17/07/2024	**Signed:**	

LAB RECEIPT	
Lab Ref. No:	
Received by:	
Date & Time:	17/7 1005
Signed:	

Relinquished by ELS (SN)
T. Trinh 18.07.24

ES2423915

Appendix L

Quality Assurance and Quality Control

1. Field and Laboratory Data Quality Assurance and Quality Control

The field and laboratory data quality assurance and quality control (QA / QC) procedures and results are summarised in the following Table 1. Reference should be made to the field work methodology and the laboratory results / certificates of analysis for further details. The relative percentage difference (RPD) results, along with the other field QC samples are included in the summary results tables at the end of this appendix.

Table 1: Field and Laboratory Quality Control

Item	Evaluation / Acceptance Criteria	Compliance
Analytical laboratories used	NATA accreditation	C
Holding times	Various based on type of analysis	C
Intra-laboratory replicates	5% of primary samples; <30-50% RPD	C PC
Inter-laboratory replicates	5% of primary samples; <30-50% RPD	C PC
Trip Spikes	1 per sampling event; 60-140% recovery	C
Trip Blanks	1 per sampling event; <LRL	C
Laboratory / Reagent Blanks	1 per batch; <LRL	C
Laboratory Duplicate	1 per lab batch - As per laboratory certificate.	C
Matrix Spikes	1 per lab batch; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Surrogate Spikes	All organics analysis; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Control Samples	1 per lab batch; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Standard Operating Procedures (SOP)	Adopting SOP for all aspects of the sampling field work.	C

Notes: LRL = laboratory reporting limit; C = compliance; PC = partial compliance; NC = non-compliance

The RPD results were all within the acceptable range, with the exception of those results shaded grey in Tables L1 and L2. The exceedances are not, however, considered to be of concern given that:

- Actual low differences in the concentrations of the replicate pairs were recorded where some RPD exceedances occurred;
- Replicates, rather than homogenised duplicates, were used to minimise risk of volatile loss, hence greater variability can be expected;
- Most of the recorded concentrations were relatively close to the LRL. RPD's are not considered significant where concentrations were less than 5-10 times the LRL;

- The majority of RPDs within a replicate pair being within the acceptable limits;and
- Other QA / QC parameters met the data quality indicators (DQIs).

Trip spikes and trip blanks were taken into the field during sampling. The trip spikes (Table L3) recorded acceptable recovery (between 85-108 %) whilst all results for the trip blank (Table L4) were below LRL. Moreover, the rinsate samples (Table L5) taken from soil sampling equipment all recorded results below the LRL.

In summary, the QC data is determined to be of sufficient quality to be considered acceptable for the assessment.

2. Data Quality Indicators

The reliability of field procedures and analytical results was assessed against the following DQI as outlined in National Environment Protection Council (NEPC), *'National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)'*, dated 2013. These being:

- Completeness: A measure of the amount of usable data from a data collection activity;
- Comparability: The confidence (qualitative) that data may be considered to be equivalent for each sampling and analytical event;
- Representativeness: The confidence (qualitative) of data representativeness of media present on-site;
- Precision: A measure of variability or reproducibility of data; and
- Accuracy: A measure of closeness of the data to the 'true' value.

Table 2: Data Quality Indicators

Data Quality Indicator	Method(s) of Achievement
Completeness	Systematic and selected target locations sampled.
	Preparation of test pit sample location plan, field records sheets, and chain of custody (COC) records.
	Laboratory sample receipt information received confirming receipt of samples intact and appropriateness of the COC.
	Completion of COC documentation.
	NATA accredited laboratory results certificates provided by the laboratory.
	Satisfactory frequency and results for field and laboratory quality control (QC) samples as discussed in Section 1 above.
Comparability	Using appropriate techniques for sample recovery, storage and transportation, which were the same for the duration of the project.
	Experienced samplers used.
	Use of NATA registered laboratories, with test methods the same or similar between laboratories.
	Satisfactory results for field and laboratory QC samples.
Representativeness	Target media sampled.
	Sample numbers recovered and analysed are considered to be representative of the target media and complying with data quality objectives.
	Samples were extracted and analysed within holding times.
	Samples were analysed in accordance with the COC.
Precision	Field staff followed Douglas Partners Pty Ltd (DP) SOP.
	Acceptable RPD between original samples and replicates.
	Satisfactory results for all other field and laboratory QC samples.
Accuracy	Field staff followed DP SOP.
	Satisfactory results for all field and laboratory QC samples.

Based on the above, it is considered that the DQI have been generally complied with.

3. Conclusion

Based on the results of the field QA and field and laboratory QC, and evaluation against the DQI it is concluded that the field and laboratory test data obtained are reliable and useable for this assessment.

Table L1: Quality Assurance Quality Control - Intra-Laboratory Replicates

Sample Description	Depth	Sample Date	Metals								TRH											
			Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	TRH C6 - C9	TRH C6 - C10	TRH C10 - C14	TRH C15 - C28	TRH C29 - C36	Total +ve TRH (C10-C36)	TRH >C10-C16	F1 (vTRH C6 - C10 less BTEX)	F2 (TRH >C10-C16 less Naphthalene)	F3 (TRH >C16-C34)	F4 (TRH >C34-C40)	Total +ve TRH (>C10-C40)
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL			4	0.4	1	1	1	0.1	1	1	25	25	50	100	100	50	50	25	50	100	100	50
TP203	0.9-1.1	12/07/2024	<4	<0.4	**3**	**9**	**7**	<0.1	**<1**	**6**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
BD5/20240712	0.9-1.1	12/07/2024	**8**	<0.4	**10**	**15**	**15**	<0.1	**2**	**9**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
Difference			**4**	0	**7**	**6**	**8**	0	0	**3**	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			**66%**	0%	**108%**	**50%**	**73%**	0%	0%	**40%**	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP218	1.6-1.8	12/07/2024	<4	<0.4	**13**	**34**	**14**	<0.1	**15**	**58**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
BD6/20240712	1.6-1.8	12/07/2024	<4	<0.4	**13**	**22**	**19**	<0.1	**11**	**45**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
Difference			0	0	0	**12**	**5**	0	**4**	**13**	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	0%	**43%**	**30%**	0%	**31%**	**25%**	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP223	3.4-3.6	11/07/2024	**5**	<0.4	**12**	**16**	**9**	<0.1	**4**	**18**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
BD1/20240711	3.4-3.6	11/07/2024	<4	<0.4	**11**	**14**	**8**	<0.1	**4**	**15**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
Difference			**1**	0	**1**	**2**	**1**	0	0	**3**	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			**22%**	0%	**9%**	**13%**	**12%**	0%	0%	**18%**	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP237	3-3.2	16/07/2024	**9**	<0.4	**16**	**22**	**19**	<0.1	**11**	**32**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
BD1/20240716	3-3.2	16/07/2024	**5**	<0.4	**11**	**17**	**9**	<0.1	**8**	**23**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
Difference			**4**	0	**5**	**5**	**10**	0	**3**	**9**	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			**57%**	0%	**37%**	**26%**	**71%**	0%	**32%**	**33%**	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP243	2.2-2.4	15/07/2024	**6**	<0.4	**18**	**20**	**16**	<0.1	**8**	**24**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
BD3/20240715	2.2-2.4	15/07/2024	**6**	<0.4	**16**	**17**	**15**	<0.1	**8**	**24**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
Difference			0	0	**2**	**3**	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	**12%**	**16%**	**6%**	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP245	2.4-2.6	15/07/2024	**5**	<0.4	**13**	**20**	**12**	<0.1	**13**	**25**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
BD1/20240715	2.4-2.6	15/07/2024	**6**	<0.4	**14**	**23**	**23**	<0.1	**17**	**31**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
Difference			**1**	0	**1**	**3**	**11**	0	**4**	**6**	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			**18%**	0%	**7%**	**14%**	**63%**	0%	**27%**	**21%**	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Table L1: Quality Assurance Quality Control - Intra-Laboratory Replicates

Sample Description	Depth	Sample Date	BTEX						PAH																
			Benzene	Toluene	Ethylbenzene	m+p-xylene	o-Xylene	Total +ve Xylenes	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,j+k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-c,d)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	Benzo(a)pyrene TEQ	Total +ve PAH's
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL			0.2	0.5	1	2	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.1	0.1	0.1	0.5	0.05
TP203	0.9-1.1	12/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD5/20240712	0.9-11	12/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
Difference			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP218	1.6-1.8	12/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD6/20240712	1.6-1.8	12/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
Difference			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP223	3.4-3.6	11/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD1/20240711	3.4-3.6	11/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
Difference			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP237	3-3.2	16/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD1/20240716	3-3.2	16/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
Difference			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP243	2.2-2.4	15/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD3/20240715	2.2-2.4	15/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
Difference			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP245	2.4-2.6	15/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD1/20240715	2.4-2.6	15/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
Difference			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Note: Where results were less that five times the laboratory reporting limit, exceedances of the RPD acceptable range are not considered significant and hence the RPD is not shaded.

Table L2: Quality Assurance Quality Control - Inter-Laboratory Replicates

Sample Description	Depth	Sample Date	Metals								TRH											
			Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	TRH C6 - C9	TRH C6 - C10	TRH C10 - C14	TRH C15 - C28	TRH C29 - C36	Total +ve TRH (C10-C36)	TRH >C10-C16	F1 (vTRH C6 - C10 less BTEX)	F2 (TRH >C10-C16 less Naphthalene)	F3 (TRH >C16-C34)	F4 (TRH >C34-C40)	Total +ve TRH (>C10-C40)
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL			4	0.4	1	1	1	0.1	1	1	25	25	50	100	100	50	50	25	50	100	100	50
TP205	0.8-1	12/07/2024	<4	<0.4	**3**	**21**	**10**	<0.1	**3**	**26**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
BD4/20240712	0.8-1	12/07/2024	<5	<1	**4**	**14**	**9**	<0.1	**3**	**28**	<10	-	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
Difference			0	0	**1**	**7**	**1**	0	0	**2**	0	-	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	**29%**	**40%**	**11%**	0%	0%	**7%**	0%	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP227	2.4-2.6	11/07/2024	**6**	<0.4	**14**	**19**	**10**	<0.1	**8**	**20**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
BD4/20240711	2.4-2.6	11/07/2024	**6**	<1	**17**	**17**	**8**	<0.1	**9**	**26**	<10	-	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
Difference			0	0	**3**	**2**	**2**	0	**1**	**6**	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	**19%**	**11%**	**22%**	0%	**12%**	**26%**	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP206	1.2-1.4	12/07/2024	<4	<0.4	**14**	**57**	**23**	<0.1	**53**	**170**												
BD3/20240712	1.2-1.4	12/07/2024	<5	<1	**13**	**31**	**28**	<0.1	**8**	**49**												
Difference			0	0	**1**	**26**	**5**	0	**45**	**121**												
Relative Percentage Difference			0%	0%	**7%**	**59%**	**20%**	0%	**148%**	**111%**												
TP231	3-3.2	16/07/2024	**6**	<0.4	**16**	**19**	**10**	<0.1	**10**	**19**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
BD4/20240716	3-3.2	16/07/2024	**8**	<1	**23**	**24**	**12**	<0.1	**13**	**27**	<10	-	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
Difference			**2**	0	**7**	**5**	**2**	0	**3**	**8**	0	-	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			**29%**	0%	**36%**	**23%**	**18%**	0%	**26%**	**35%**	0%	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP232	1.6-1.8	16/07/2024	**5**	<0.4	**14**	**18**	**9**	<0.1	**6**	**20**	<25	<25	<50	<100	<100	<50	<50	<25	<50	<100	<100	<50
BD3/20240716	1.6-1.8	16/07/2024	**7**	<1	**22**	**26**	**12**	<0.1	**13**	**38**	<10	-	<50	<100	<100	<50	<50	<10	<50	<100	<100	<50
Difference			**2**	0	**8**	**8**	**3**	0	**7**	**18**	0	-	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			**33%**	0%	**44%**	**36%**	**29%**	0%	**74%**	**62%**	0%	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Table L2: Quality Assurance Quality Control - Inter-Laboratory Replicates

Sample Description	Depth	Sample Date	BTEX						PAH															
			Benzene	Toluene	Ethylbenzene	m+p-xylene	o-Xylene	Total +ve Xylenes	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,j+k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-c,d)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	Benzo(a)pyrene TEQ	Total +ve PAH's
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PQL			0.2	0.5	1	2	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.1	0.1	0.1	0.5	0.05
TP205	0.8-1	12/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD4/20240712	0.8-1	12/07/2024	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Difference			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP227	2.4-2.6	11/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD4/20240711	2.4-2.6	11/07/2024	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Difference			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP231	3-3.2	16/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD4/20240716	3-3.2	16/07/2024	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Difference			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TP232	1.6-1.8	16/07/2024	<0.2	<0.5	<1	<2	<1	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.05	<0.1	<0.1	<0.1	<0.5	<0.05
BD3/20240716	1.6-1.8	16/07/2024	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Difference			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Relative Percentage Difference			0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Note: Where results were less that five times the laboratory reporting limit, exceedances of the RPD acceptable range are not considered significant and hence the RPD is not shaded.

Table L3: Quality Assurance Quality Control - Trip Spike Recovery %

Sample Description	Sample Date	Matrix Type	Benzene	Toluene	Ethylbenzene	m+p-xylene	o-Xylene
TS-120724	12/07/2024	Soil	108%	101%	100%	100%	100%
TS-160724	16/07/2024	Soil	87%	85%	89%	89%	89%

Table L4: Quality Assurance Quality Control - Trip Blank Results

Sample Description	Sample Date	Matrix Type	TRH C6 - C9	TRH C6 - C10	F1 (vTRH C6 - C10 less BTEX)	Benzene	Toluene	Ethylbenzene	m+p-xylene	o-Xylene	Naphthalene	Total +ve Xylenes
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TB-120724	12/07/2024	Soil	<25	<25	<25	<0.2	<0.5	<1	<2	<1	<1	<1
TB-160724	16/07/2024	Soil	<25	<25	<25	<0.2	<0.5	<1	<2	<1	<1	<1

Table L5: Quality Assurance Quality Control: Rinsate Results

Sample Description	Sample Date	Matrix Type	Total Metals								TRH											BTEX					
			Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	TRH C6 - C9	TRH C6 - C10	TRH C6 - C10 lessBTEX (F1)	TRH C10 - C14	TRH C15 - C28	TRH C29 - C36	Total +ve TRH (C10-C36)	TRH >C10 - C16	TRH >C10 - C16less Naphthalene (F2)	TRH >C16 - C34	TRH >C34 - C40	Total +ve TRH (>C10-C40)	Benzene	Toluene	Ethylbenzene	m+p-xylene	o-xylene	Naphthalene
Units			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
PQL			0.05	0.01	0.01	0.01	0.03	0.0005	0.02	0.02	10	10	10	50	100	100	50	50	50	100	100	50	1	1	1	2	1	1
RINS-120724	12/07/2024	Water	<0.05	<0.01	<0.01	<0.01	<0.03	<0.0005	<0.02	<0.02	<10	<10	<10	<50	<100	<100	<50	<50	<50	<100	<100	<50	<1	<1	<1	<2	<1	<1
RINS-160724	16/07/2024	Water	<0.05	<0.01	<0.01	<0.01	<0.03	<0.0005	<0.02	<0.02	<10	<10	<10	<50	<100	<100	<50	<50	<50	<100	<100	<50	<1	<1	<1	<2	<1	<1

Sample Description	Sample Date	Matrix Type	PAH																
			Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b,j+k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-c,d)pyrene	Dibenzo(a,h)anthracene	Benzo(g,h,i)perylene	Benzo(a)pyrene TEQ	Total +vePAH's
Units			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
PQL			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.5	0.1
RINS-120724	12/07/2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1
RINS-160724	16/07/2024	Water	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1