

**Broadwater Public School
9 Byrnes Street, Broadwater NSW 2472**

Contamination Investigation

ADCO Constructions Pty Ltd



Reference: 754-SYDGE319200-R03

21 July 2023

BROADWATER PUBLIC SCHOOL

Contamination Investigation

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EXECUTIVE SUMMARY¹

Tetra Tech Coffey Pty Ltd (Coffey) was engaged by ADCO Constructions Pty Ltd (ADCO) to provide contamination management services to inform/support a programme of refurbishments and development (referred to as the development area herein) within a portion Broadwater Public School 9 Byrnes Street, Broadwater NSW 2472 (the site) which was previously damaged by flood events in February/March 2022. The development site covers an approximate area of 7530m².

The objective of this assessment was to identify potential contamination issues relevant to the site in reference to the proposed refurbishments and developments.

In accordance with NSW EPA guidance, Coffey completed the following scope of works:

- A desktop review of the following information sources:
 - Acid sulfate soil risk maps
 - Local geology
 - Local hydrogeology
 - Local topography
 - A review of local Council Section 10.7 certificate in relation to the site
 - Review of historical imagery
 - Registered groundwater bore information in the public register held by NSW Office of Water.
 - Contaminated land records and environmental protection licence information in the public registers held by the NSW Environment Protection Authority.
 - A site walkover by an experienced environmental consultant to identify potential sources of contamination.

The review of available records, and observations made during a site walkover has identified the following potential contamination sources within the site:

- Potential for hazardous building materials to impact the ground surface from flood damaged buildings.
- Likely presence of hazardous materials in existing flood impacted buildings.
- Potential for floodwaters to have deposited contaminated material on site.

Following analysis, no analytes were found to be above the site assessment criteria.

Based on our investigation findings, Coffey consider the following:

- No unacceptable human health soil impacts were identified within the investigation area.
- No unacceptable ecological soil impacts were identified in the investigation area

The investigation area is considered suitable for the proposed development with respect to contamination, subject to:

- Implementation of an unexpected finds protocol
- Appropriate waste/spoil management

With respect to the acid sulfate soils, no AASS were detected in the deeper soil samples analysed. PASS are likely to be present in the underlying natural sediments. Whilst foundation/excavation details have not been confirmed, Coffey considers that an Acid Sulfate Soils Management Plan (ASSMP) would likely be required.

This report should be read in conjunction with the attached “Important information about your Coffey Environmental Report”.

¹ This executive summary must be read in the context of the full report and the attached limitations.

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ABBREVIATIONS

Abbreviations	Definition
AEC	Area of Environmental Concern
AHD	Australian Height Datum
ASC NEPM	National Environment Protection (Assessment of Site Contamination Measure 1999
BTEX	Benzene, toluene, ethylbenzene and xylene
CLM Act	Contaminated Land Management Act 1997
COPC	Contaminant of Potential Concern
CSM	Conceptual Site Model
GDE	Groundwater Dependant Ecosystem
OCP	Organochlorine pesticides
OPP	Organophosphorus Pesticides
PAH	Polycyclic aromatic hydrocarbons
POEO Act	Protection of the Environment Operations Act 1997
TRH	Total Recoverable Hydrocarbons

1. INTRODUCTION

1.1 GENERAL

Tetra Tech Coffey Pty Ltd (Coffey) was engaged by ADCO Constructions Pty Ltd (ADCO) to provide contamination management services to inform/support a programme of refurbishments and development (referred to as the development area herein) within a portion of Broadwater Public School, 9 Byrnes Street, Broadwater NSW 2472 (the site) previously damaged by flood events in February/March 2022. The site location, development area and site boundary are illustrated in Figure 1.

The Investigation was prepared in accordance with Coffey's fee proposal dated 24 March 2023 (ref: SYDGE319200-AB).

1.2 OBJECTIVES

The objective of this investigation was to provide contamination management services (including preparation of contamination documentation) to support ADCO in delivering the project. The investigation will assist with the characterisation of the extent and type of contamination (if present) within the development area.

1.3 SCOPE OF WORKS

To meet the above objective, Coffey has prepared this Investigation in general accordance with relevant guidelines including the *Guidelines for Consultants Reporting on Contaminated Land* (NSW EPA, 2020), and Schedule B2 of the *National Environment Protection (Assessment of Site Contamination) Measure 1999* (the 'ASC NEPM') (NEPC, 2013).

In accordance with NSW EPA guidance, Coffey completed the following scope of works:

- A desktop review of the following information sources:
 - Local geology, hydrogeology, topography and acid sulfate soil risk maps.
 - A selection of relevant historical aerial photographs available in public online portals, covering the site and the surrounds.
 - Registered groundwater bore information in the public register held by NSW Office of Water.
 - Contaminated land records and environmental protection licence information in the public registers held by the NSW Environment Protection Authority.
 - Current and historical titles records (if land use cannot be established by aerial photographs).
 - Review of the Section 10.7 (2 & 5) certificates for the site maintained by Council.
 - Previous contamination assessments reports made available by ADCO.
- A walkover of the site was undertaken to observe current activities and conditions within the site, and adjacent properties.
- Limited soil sampling utilising geotechnical boreholes extending at least 1.0 m below ground level (mbgl) depth, and/or into the natural soil profile. Soil samples were collected at selected depth intervals. Acid sulfate soil samples were collected in deeper natural soil profiles, where applicable.
- Limited soil sampling within the development area using hand tools up to 0.2 mbgl to target shallow impacts associated with the flood event.
- Chemical analysis at a NATA accredited laboratory for selected analytes.
- Preparation of this report.

2. SITE INFORMATION

2.1 SITE LOCATION

The site location information is summarised in Table 2.1 below:

Table 2.1: Site Information

Item	Description
Site Address	Broadwater Public School, 9 Byrnes Street, Broadwater
Site Area	Approximately 9,000 m ²
Development Area	7530m ²
Title Identification	Lot 4, 5, DP 1043232 / Lot 501, DP755624
Current Land Zoning	RU1 – Primary Production
Local Government Authority	Richmond Valley Council
Current Land Use	Educational Establishment
Proposed Land Use	Educational Establishment

2.2 SITE DESCRIPTION

An experienced environmental scientist attended the site to undertake a walkover on 3 July 2023. The following observations were made:

- The site was observed to be predominately grass covered with areas of hardstand in good condition.
- The school was unoccupied at the time of the walkover and is understood to be closed to students/teachers. Flood damaged buildings were barricaded with chain link fencing.
- Upon inspection of the exterior of the unoccupied, flood damaged buildings and given the observed age it is considered possible for building materials to comprise asbestos containing material (ACM).
- Foundations of a previous structure were observed in two locations, to the south and to the west of the playground. These areas contained cinder blocks, PVC pipes, bricks and sandy surface soils. No asbestos containing material (ACM) was identified.
- A septic tank was observed in the ground to the north of the playground.
- One grass covered stockpile (2m x 1m x 1m) was identified towards the northeast boundary, comprising grey sandy soils. Visual observations were obscured by the grass cover, however anthropogenic material was not identified.
- A drainage culvert was observed offsite in the southwest corner.

2.3 SURROUNDING LAND USES

Table 2.2 summarises the uses of surrounding land based on observations made from accessible areas within the site and site boundary during the walkover, and a review of recent, web-based aerial imagery.

Table 2.2: Surrounding Land Uses

Direction	
North	A residential property to the immediate northern boundary with Blackwall Drive and Richmond River beyond.
East	Agricultural land
South	Byrnes Street and residential areas.
West	Blackwall Drive and Richmond River beyond.

3. ENVIRONMENTAL SITE SETTING

Table 3.1 presents a summary of information to describe the environmental setting of the site and surrounding land.

Table 3.1: Summary of Environmental Setting of Site and Surrounding Land

Aspect	Description
Topography	Available topographic mapping shows regional topography is relatively flat. From east to west of the site, the elevation is recorded to be between 2-3mAHD
Geology & Soil Landscape	Based on the NSW Seamless Geology Map, the Broadwater Public School site is primarily composed of Quaternary alluvium (Q_al), which consists of "fluvially deposited fine to medium grained lithic to quartz-rich sand, silt and clay". Available soil landscape information from the eSPADE website ² indicated the site is located within the Empire Vale soil landscape, which is characterised as 'Prairie Soils and Dense Clays overlying poorly drained mixed sediments'.
Hydrogeology	Groundwater was intercepted at 2.1 mbgl and 2.4 mbgl. It is likely groundwater flows through permeable alluvial deposits on site. Available records from Water NSW indicated that within 500m of the site there is one licensed groundwater bore (GW305936) listed for monitoring.
Hydrology	Richmond River is situated approximately 30m to the west of the site. Richmond River is a tidal watercourse which flows in a north easterly direction towards the sea.
Acid Sulfate Soils Risk / Classification	The site is situated within a Class 3 Acid Sulfate Soil area under the Richmond Valley Local Environment Plan 2012. The site is within an area determined to have a high probability of encountering acid sulfate soils at 1-3mBGL according to the Acid Sulfate Soil Risk maps prepared by the Department of Land and Water Conservation 1998. Review of the eSPADE website for acid sulfate soil (ASS) risk mapping indicated the site is within an area of high probability for ASS to occur <1-3m below ground surface.

² Available: <https://www.environment.nsw.gov.au/eSpade2Webapp/>

4. SITE HISTORY

4.1 HISTORIC AERIAL PHOTOGRAPHS

A review of historical aerial photographs supplied by NSW Government Historical Imagery website is summarised in Table 4.1 below. The historical aerial photographs reviewed are provided in Appendix A

Table 4.1: Summary of historic land uses based on aerial photographs

Date	Site Features	Features of Surrounding Land
1958	The site appears predominately vacant with sporadic trees and a structure in the southwest corner of the site.	The surrounding land comprises residential areas towards the north and south with Blackwall Drive and Richmond River towards the west. Sectioned agricultural land is observed along the eastern boundary
1964	The site appears to remain unchanged from the previous aerial photograph, with the exception of an additional structure developed in the southwest corner of the site.	The surrounding land appears relatively unchanged from the previous aerial photograph.
1979	The site surface appears disturbed, additional trees and vegetation is observed on site.	Byrnes Street and a cul-de-sac has been developed to connect the site to Blackwell Drive.
1987	The site surface appears to have been levelled.	The surrounding land appears relatively unchanged from the previous aerial photograph.
1998	A building has been constructed in the western portion of the site. A line of trees have developed along the eastern boundary.	A building has been constructed to the north of the site.
2012	A large tree has been cleared from the north west portion, exposing a building in this area. A hard stand car park has been developed in the southern portion of the site.	The building in the north been extended towards the south west.
2022	The site appears relatively unchanged from the previous aerial photograph.	The site appears relatively unchanged from the previous aerial photograph.

4.2 PUBLIC RECORDS AND REGISTERS

Table 4.2: Summary of Records from Public Records and Registers

Register	Summary
NSW EPA Contaminated Land Public Record³	A search of the List of NSW Contaminated Sites Notified to NSW EPA updated 9 May 2023 was undertaken. The search indicates that the site, or properties within a 500m radius of the site, had not been notified to the NSW EPA under Section 60 of the Contaminated Land Management Act 1997.
NSW POEO Public Registers	<p>A search of the NSW EPA POEO Public Registers, was undertaken on 18 July 2023 for:</p> <ul style="list-style-type: none"> • Activities licensed by the NSW EPA under Schedule 1 of the POEO Act 1997. • Unlicensed premises regulated by the NSW EPA. <p>The search identified the following licensed activities within or in close proximity to the site:</p> <ul style="list-style-type: none"> • General agricultural processing by Manildra Stock Feeds (Manufacturing) Pty Ltd and New South Wales Sugar Milling Co-Operative limited at the Broadwater Mill located approximately 1000m to the southwest of the site. • Generation of electrical power otherwise than from coal, diesel or gas by Cape Byron Management Pty Ltd at the Broadwater Cogeneration Power Plant approximately 1000m to the southwest of the site. <p>Former delicensed activities include the application of herbicides along waterways throughout NSW.</p>
Former Gasworks	A search of NSW EPA List of Former Gasworks ⁴ was undertaken on the 9 June 2023. The search indicated that there are no known gasworks at or within 500m of the Site.
Waste Management Facilities	A search of the National Waste Reporting Mapping Tool undertaken on 9 June 2023. The search identified no waste transfer facilities or landfill sites within the site or within 500m of the site.
NSW Government PFAS Investigation Programme	<p>The NSW EPA is leading an investigation program to assess the legacy of Per- and poly-fluoroalkyl substances (PFAS) use across NSW. Current investigations are focused on sites where it is likely that large quantities of PFAS have been used.</p> <p>A search of the NSW EPA website⁵ undertaken on 9 June 2023 did not identify properties within 1,000m of the site which are being investigated for PFAS use under the NSW Government PFAS Investigation Program.</p>
Known James Hardie Waste Disposal Sites	<p>The NSW EPA published a summary project report titled Regulation Project – James Hardie Asbestos Waste Contamination Legacy in 2012. This report presented a summary of asbestos impacted sites resulting from former operations of James Hardie Industries and related entities (James Hardie).</p> <p>A review of the report indicates that the site is not listed as a known James Hardie Waste Disposal Site, and no known James Hardie disposal site is listed within 1,000m of the Site.</p>

³ Available: <https://www.epa.nsw.gov.au/your-environment/contaminated-land/notified-and-regulated-contaminated-land/list-of-notified-sites>

⁴ <https://www.epa.nsw.gov.au/your-environment/contaminated-land/other-contamination-issues/former-gasworks-sites>

⁵ <https://www.epa.nsw.gov.au/your-environment/contaminated-land/pfas-investigation-program>

4.3 PREVIOUS ENVIRONMENTAL ASSESSMENTS

No previous environmental assessments were provided for review from ADCO.

4.4 SECTION 10.7 PLANNING CERTIFICATE

Coffey obtained the Section 10.7 Planning Certificate for Lot 5 of DP1043232. Coffey reviewed this certificate, noting the following in relation to contaminated land:

- These lots have not been designated significantly contaminated land or is the subject of an approved voluntary management proposal, ongoing maintenance order or has previously been the subject of a site audit statement.
- These lots have not been listed on the Loose Fill Asbestos Register, as maintained by NSW Fair Trading.
- The subject site is identified as being part of a biological conservation area (Coastal Management SEPP – Environment Area).

4.5 SUMMARY OF SITE INFORMATION

Based on the review of site history and publicly available information sources, a summary of site history information is provided below.

- The site appears to have maintained buildings on the land since prior to the 1958 aerial photograph.
- The site has not been listed on any public registers in relation to contamination.
- Surrounding areas appear to be for agricultural uses and rural residential from the period the aerial photographs were reviewed.

4.6 INTEGRITY ASSESSMENT OF INFORMATION REVIEWED

The following information sources were referred to for this assessment.

- Historic aerial photographs for the period between 1958 and 2023.
- Section 10.7 Planning Certificate.
- Public registers, records and maps maintained and provided by various government departments; and
- Observations and interviews made in the field during the site walkover.

The site inspection was made from accessible areas of the site, which included observations from property boundaries.

The planning certificate indicates that the site has not been designated significantly contaminated land or designated orders in relation to contamination. Public registers did not indicate any items of concern in relation to contamination.

Historic aerial photographs were reviewed for the period between 1958 and 2023. This source of information used to describe these historic land uses is considered to be reliable and suitable to inform the preliminary assessment of potential contamination.

5. CONCEPTUAL SITE MODEL

A conceptual site model (CSM) was developed based on the information reviewed and observations made during a site inspection. A CSM is a representation of site-related information regarding potential sources of contamination, receptors and exposure pathways.

Contamination, if not managed appropriately could pose a potential risk to human health or the environment. For an unacceptable risk to exist, there must be a plausible pollutant linkage between the source and a receptor by means of a transport mechanism (pathway).

5.1 AREAS OF ENVIRONMENTAL CONCERN

Based on the information reviewed, the following AEC have been identified in Table 5.1 below.

Table 5.1: Areas of Environmental Concern and Contaminants of Potential Concern

AEC	Location	Description of AEC	COPC
Fill material/flood material	Exposed surface soils across the site	Whilst on site observations did not identify significant, flood related impacts to surface soils, it is possible that flood waters may deposit contaminants and contaminated material from the surrounding area.	Fill and/or flood material may contain a range of potential contaminants, including hydrocarbon residues (TRH, BTEX, PAH), pesticides (OCP, OPP), metals, asbestos
Hazardous building materials	Central portion of site (multiple buildings)	Structures on site have potential to contain hazardous building materials (e.g., asbestos, lead-based paint residues, which may enter surface soils due to poor demolition practices or weathering over time.	Heavy metals, asbestos

COPC Abbreviations:

TRH: Total recoverable hydrocarbons

BTEX: Benzene, toluene, ethylbenzene and xylene

PAH: Polycyclic aromatic hydrocarbons

OCP: Organochlorine pesticides

OPP: Organophosphorus Pesticides

5.2 RECEPTORS, POTENTIAL TRANSPORT MECHANISMS & EXPOSURE PATHWAYS

Table 5.2 summarises the potentially affected media, key potential receptors and transport mechanisms in the context of the proposed development. The following receptors were considered:

- Current site users
- Site visitors including construction or maintenance workers
- Terrestrial ecology including mature trees and protected biodiversity areas

Table 5.2: Summary of potentially affected media, receptors, transport mechanisms and exposure routes

Source & Media	Receptor	Pathway	Likelihood of Exposure
Soil – fill material from historical placements or flood deposition.	Construction worker undertaking ground disturbance activities. School users and visitors Terrestrial Ecology	Dermal contact and accidental ingestion/inhalation of soil/fibres Direct contact and uptake by terrestrial ecology	Low to moderate likelihood – No significant mounding or flood deposit was observed. Pathway potentially complete if the impacted soil is exposed.
Soil - hazardous building materials impact on surface soil.	Construction worker undertaking ground disturbance activities. School users and visitors Terrestrial ecology	Dermal contact and accidental ingestion/inhalation of soil/fibres Direct contact and uptake by terrestrial ecology	Low to moderate likelihood – Impacts, if present, are typically superficial and/or localised. Pathway potentially complete if the impacted soil is exposed.

6. SAMPLE PLAN AND METHODOLOGY

6.1 OVERVIEW

The sampling locations are shown in Figure 1 in Appendix A.

The proposed sampling strategy for the site was established with consideration to the requirements of the *National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPM)* and the *NSW Contaminated Sites: Sampling Design Guidelines* (NSW EPA, 2022) (NSW Sampling Guidelines).

This section summarises the sampling undertaken by Coffey.

6.2 SOIL

The site is shown in Figures 2-7 in Appendix A.

Coffey completed a total of nine sampling locations (five surface samples and four boreholes) concurrently with the geotechnical investigation. The locations were positioned across the subject development area to provide general coverage with some of these sampling points targeting the weathering/remnants of hazardous building materials in the vicinity of existing/demolished buildings.

The sampling locations were able to reach proposed target depths, with the exception of C-BH1, due to refusal on bedrock at 9.45 mbgl.

Overall, the sampling completed is considered to present reasonable coverage to enable identification of contamination constraints for the proposed development.

The soil sampling locations are shown in Figure 1 in Appendix A. A summary of the vertical profile is provided in Section 8.

The soil sampling methodology is described in Table 6.1 below.

Table 6.1: Soil Sampling Methodology

Activity	Detail / Comments
Drilling method	Boreholes extended to depths of between 1.0 m and 11.0 mbgl using a combination of a hand auger and a drill rig.
Sampling Frequency	Samples were collected from the near surface and then at selected intervals in fill materials based on signs of contamination. Deeper soil samples were collected from natural material for acid sulfate soil testing.

	Suspected asbestos-containing materials (ACM) were not observed at the sampling locations. Selected samples were collected for asbestos identification screening.
Surface sampling	Surface samples were collected by gloved hand or with the aid of hand tools.
Soil Sampling Containers	Soil samples were placed in clean acid washed glass jars supplied by the laboratory and sealed with a Teflon-lined lid. Laboratory provided plastic sample bags were used for asbestos analysis and acid sulfate soils.
Sample collection	Each soil sample was collected with new nitrile gloves to reduce the potential for cross contamination. The samples were generally collected from the split spoon sampler.
Soil Logging	Soil samples were logged by a suitably qualified and experienced Coffey environmental scientist in accordance with Coffey's relevant Standard Operating Practice (SOP), based on AS 1726-2017. Presence or absence of anthropogenic material and contamination (i.e., odours or staining) was recorded on the borehole logs.
Sample Handling and Transportation	Sample collection, storage and transport was conducted in general accordance with Coffey's SOP. Soil samples were placed into laboratory prepared and supplied glass jars, fitted with Teflon lined seals to limit possible volatile loss. Sample jars were filled to minimise headspace. Separate samples for asbestos analysis were collected and placed in double zip lock bags. The samples were placed into ice chilled coolers and dispatched to NATA accredited laboratories for analysis under chain of custody (COC) control.
QA/QC Samples	To measure the accuracy and precision of the data generated by the field and laboratory procedures for this assessment, Coffey collected and analyse QC samples in general accordance with Coffey's standard operating procedures (SOP) and industry's guidelines.

Samples were analysed by laboratories holding accreditation to ISO 17025 General requirements for the competence of testing and calibration laboratories and using National Association of Testing Authorities (NATA) accredited methods.

7. ASSESSMENT CRITERIA

To assess the significance of contaminant concentrations in soil, reference was primarily made to NEPM 2013, specifically 'Schedule B1 Guideline on Investigation Levels for Soil and Groundwater' (Schedule B1) for assessment criteria, where available.

Schedule B1 provides a framework for the use of investigation and screening levels based on human health and ecological risks. In the absence of relative criteria in NEPM 2013, reference was made to other appropriate state, national or international guideline.

Table 7.1: Adopted Soil Assessment Criteria

Criteria Adopted	Reference	Receptors/Relevance	Pathway/Comments
HIL-A for non-volatile contaminants	ASC NEPM (2013)	Primary school receptors	Dermal contact and ingestion
HSL-A for petroleum volatiles, sand	ASC NEPM (2013)	Primary school receptors in buildings	Inhalation
HSL intrusive maintenance worker 0m to<2m, fine grained, for petroleum volatiles	CRC CARE (2011)	Intrusive maintenance worker (shallow trench)	Inhalation
HSL-A for direct contact, for petroleum contaminants	CRC CARE (2011)	Primary school receptors	Dermal contact and inhalation
Management limits, residential, parkland and public open space,	ASC NEPM (2013)	Primary school setting	Formation of LNAPL, fire and explosion and property damage

coarse grained soil texture, for petroleum TPH fractions			
EIL and ESL for residential and open space, coarse grained soil texture, for soil contaminants [^]	ASC NEPM (2013) & Olszowy et al (1995) [^]	Plants and terrestrial organisms (top 2m)	Leaching, adsorption, intake or direct exposure
HSL-A for asbestos	ASC NEPM (2013)	Primary school receptors	Inhalation

[^] EIL developed based on pH of 5.5, CEC of 5cmolc/kg, iron content of 0.3%, in a low traffic old suburb setting

8. RESULTS

8.1 SUBSURFACE CONDITIONS

Subsurface conditions are summarised in Table 8.1. Borehole logs are shown in Appendix E.

Table 8.1: Vertical Profile Overview

Fill/ Natural	Depth (mbgl)	Material Description
Fill	0.0 – 0.2	SAND – fine to coarse grained, brown, trace rootlets
Natural	0.2 – 1.0	Sandy CLAY – brown
Natural	1.0 – 7.0	CLAY – brown mottled orange, trace sand
Natural	7.0 – 10.0	Silty SAND – fine to coarse grained, brown/yellow

During the investigation, materials suspected to be asbestos containing material (ACM) were not apparent in or around the borehole/sampling locations. Furthermore, indicators of contamination (staining, demolition waste, odorous soil etc.) were not apparent during the investigation.

9. ANALYTICAL RESULTS

9.1 SOIL

The laboratory results are presented in Table I1 in Appendix I and indicate that the current and previous results were all within the site assessment criteria (SAC).

9.1.1 Heavy Metals

Heavy metals were not detected above the LOR in any of the samples tested.

9.1.2 BTEX

BTEX compounds were not detected above the laboratory limit of reporting (LOR) in any of the samples tested.

9.1.3 Organochlorine Pesticides

OCP compounds were not detected above the LOR in any of the samples tested.

9.1.4 Total Petroleum Hydrocarbons

TPH compounds were either not detected above the LOR or were detected within the SAC.

9.1.5 Polyaromatic Hydrocarbons

PAH were either not detected above the LOR or were detected within the SAC.

9.1.6 Pesticides

Pesticides were not detected above the LOR in any of the samples tested.

9.1.7 Asbestos

Asbestos was not detected above the reporting limit in any of the samples tested.

9.2 PRELIMINARY WASTE CLASSIFICATION

The assessed shallow soils are likely to meet the General Solid Waste (non-putrescible) criteria when TCLP results are considered, subject to further confirmation/characterisation and acid sulfate soils considerations (where applicable).

9.3 ACID SULFATE SOIL ASSESSMENT

Two deeper samples (approx. 7m depth) were assessed for acid sulfate soils properties. pH_(f) values were reported to range from 5.7 to 6.4, not indicative of actual acid sulfate soils (AASS). pH_(ox) values were reported to range from 2.6 to 3.3, indicative of potential acid sulfate soils (PASS).

9.4 QUALITY CONTROLS AND DATA USEABILITY

Coffey has reviewed the quality control (QC) results and considers the data reasonably representative for the purposes of this report. The majority of the field and laboratory QC results is generally reported within the acceptable control limits. The data is considered useable for this contamination investigation.

10. CONCLUSIONS AND RECOMMENDATIONS

Based on our investigation findings, Coffey considers that:

- No unacceptable human health soil impacts were identified in the investigation area
- No unacceptable ecological soil impacts were identified in the investigation area

The investigation area is considered suitable for the proposed development with respect to contamination, subject to:

- Implementation of an unexpected finds protocol
- Appropriate waste/spoil management

With respect to the acid sulfate soils, no AASS were detected in the deeper soil samples analysed. PASS are likely to be present in the underlying natural sediments. Whilst foundation/excavation details have not been confirmed, Coffey considers that an Acid Sulfate Soils Management Plan (ASSMP) would likely be required.

This report should be read in conjunction with the attached “Important information about your Coffey Environmental Report”.

11. LIMITATIONS

This contamination assessment was completed as per the scope outlined in Coffey Proposal ref: SYDGE319200-AB. It is applicable to the proposed development and is not intended to identify or address all contamination issues, if present, for the wider school site. Visual assessments during walkover are subject to access and limitations (eg. long grass).

IMPORTANT INFORMATION ABOUT YOUR TETRA TECH COFFEY ENVIRONMENTAL REPORT

Introduction

This report has been prepared by Tetra Tech Coffey for you, as Tetra Tech Coffey's client, in accordance with our agreed purpose, scope, schedule and budget.

The report has been prepared using accepted procedures and practices of the consulting profession at the time it was prepared, and the opinions, recommendations and conclusions set out in the report are made in accordance with generally accepted principles and practices of that profession.

The report is based on information gained from environmental conditions (including assessment of some or all of soil, groundwater, vapour and surface water) and supplemented by reported data of the local area and professional experience. Assessment has been scoped with consideration to industry standards, regulations, guidelines and your specific requirements, including budget and timing. The characterisation of site conditions is an interpretation of information collected during assessment, in accordance with industry practice.

This interpretation is not a complete description of all material on or in the vicinity of the site, due to the inherent variation in spatial and temporal patterns of contaminant presence and impact in the natural environment. Tetra Tech Coffey may have also relied on data and other information provided by you and other qualified individuals in preparing this report. Tetra Tech Coffey has not verified the accuracy or completeness of such data or information except as otherwise stated in the report. For these reasons the report must be regarded as interpretative, in accordance with industry standards and practice, rather than being a definitive record.

Your report has been written for a specific purpose

Your report has been developed for a specific purpose as agreed by us and applies only to the site or area investigated. Unless otherwise stated in the report, this report cannot be applied to an adjacent site or area, nor can it be used when the nature of the specific purpose changes from that which we agreed.

For each purpose, a tailored approach to the assessment of potential soil and groundwater contamination is required. In most cases, a key objective is to identify, and if possible quantify, risks that both recognised and potential contamination pose in the context of the agreed purpose. Such risks may be financial (for example, clean up costs or constraints on site use) and/or physical (for example, potential health risks to users of the site or the general public).

Limitations of the Report

The work was conducted, and the report has been prepared, in response to an agreed purpose and scope, within time and budgetary constraints, and in reliance on certain data and information made available to Tetra Tech Coffey.

The analyses, evaluations, opinions and conclusions presented in this report are based on that purpose and scope, requirements, data or information, and they could change if such requirements or data are inaccurate or incomplete.

This report is valid as of the date of preparation. The condition of the site (including subsurface conditions) and extent or nature of contamination or other environmental hazards can change over time, as a result of either natural processes or human influence. Tetra Tech Coffey should be kept apprised of any such events and should be consulted for further investigations if any changes are noted, particularly during construction activities where excavations often reveal subsurface conditions.

In addition, advancements in professional practice regarding contaminated land and changes in applicable statutes and/or guidelines may affect the validity of this report. Consequently, the currency of conclusions and recommendations in this report should be verified if you propose to use this report more than 6 months after its date of issue.

The report does not include the evaluation or assessment of potential geotechnical engineering constraints of the site.

Interpretation of factual data

Environmental site assessments identify actual conditions only at those points where samples are taken and on the date collected. Data derived from indirect field measurements, and sometimes other reports on the site, are interpreted by geologists, engineers or scientists to provide an opinion about overall site conditions, their likely impact with respect to the report purpose and recommended actions.

Variations in soil and groundwater conditions may occur between test or sample locations and actual conditions may differ from those inferred to exist. No environmental assessment program, no matter how comprehensive, can reveal all subsurface details and anomalies. Similarly, no professional, no matter how well qualified, can reveal what is hidden by earth, rock or changed through time.

The actual interface between different materials may be far more gradual or abrupt than assumed based on the facts obtained. Nothing can be done to change the actual site conditions which exist, but steps can be taken to reduce the impact of unexpected conditions.

For this reason, parties involved with land acquisition, management and/or redevelopment should retain the services of a suitably qualified and experienced environmental consultant through the development and use of the site to identify variances, conduct additional tests if required, and recommend solutions to unexpected conditions or other unrecognised features encountered on site. Tetra Tech Coffey would be pleased to assist with any investigation or advice in such circumstances.

Recommendations in this report

This report assumes, in accordance with industry practice, that the site conditions recognised through discrete sampling are representative of actual conditions throughout the investigation area. Recommendations are based on the resulting interpretation.

Should further data be obtained that differs from the data on which the report recommendations are based (such as through excavation or other additional assessment), then the recommendations would need to be reviewed and may need to be revised.

Report for benefit of client

Unless otherwise agreed between us, the report has been prepared for your benefit and no other party. Other parties should not rely upon the report or the accuracy or completeness of any recommendation and should make their own enquiries and obtain independent advice in relation to such matters.

Tetra Tech Coffey assumes no responsibility and will not be liable to any other person or organisation for, or in relation to, any matter dealt with or conclusions expressed in the report, or for any loss or damage suffered by any other person or organisation arising from matters dealt with or conclusions expressed in the report.

To avoid misuse of the information presented in your report, we recommend that Tetra Tech Coffey be consulted before the report is provided to another party who may not be familiar with the background and the purpose of the report. In particular, an environmental disclosure report for a property vendor may not be suitable for satisfying the needs of that property's purchaser. This report should not be applied for any purpose other than that stated in the report.

Interpretation by other professionals

Costly problems can occur when other professionals develop their plans based on misinterpretations of a report. To help avoid misinterpretations, a suitably qualified and experienced environmental consultant should be retained to explain the implications of the report to other professionals referring to the report and then review plans and specifications produced to see how other professionals have incorporated the report findings.

Given Tetra Tech Coffey prepared the report and has familiarity with the site, Tetra Tech Coffey is well placed to provide such assistance. If another party is engaged to interpret the recommendations of the report, there is a risk that the contents of the report may be misinterpreted and Tetra Tech Coffey disowns any responsibility for such misinterpretation.

Data should not be separated from the report

The report as a whole presents the findings of the site assessment and the report should not be copied in part or altered in any way. Logs, figures, laboratory data, drawings, etc. are customarily included in our reports and are developed by scientists or engineers based on their interpretation of field logs, field testing and laboratory evaluation of samples. This information should not under any circumstances be redrawn for inclusion in other documents or separated from the report in any way.

This report should be reproduced in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties.

Responsibility

Environmental reporting relies on interpretation of factual information using professional judgement and opinion and has a level of uncertainty attached to it, which is much less exact than other design disciplines. This has often resulted in claims being lodged against consultants, which are unfounded. As noted earlier, the recommendations and findings set out in this report should only be regarded as interpretive and should not be taken as accurate and complete information about all environmental media at all depths and locations across the site.

APPENDIX A: FIGURES



LEGEND

- 2022 Geotechnical boreholes by DP
- 2023 Geotechnical boreholes by Coffey
- 2023 Environmental boreholes by Coffey
- △ Approximate Surface Sample

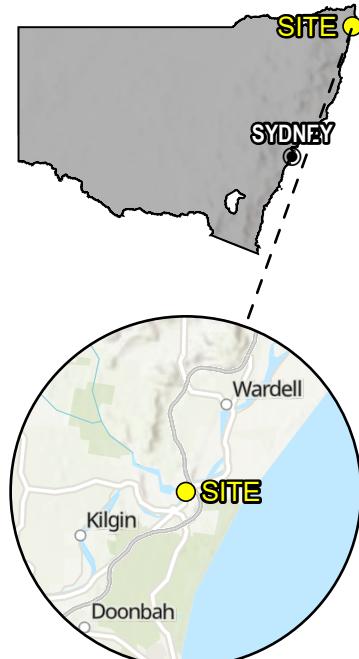
drawn	IG	 TETRA TECH COFFEY	client:
approved	VN		project:
date	13/07/2023		Northern River School Cluster
scale	NTC		title:
original size	A4		Borehole Location Plan
			project no: SYDGE319200 figure no: 1







LEGEND
Property boundary
Site boundary



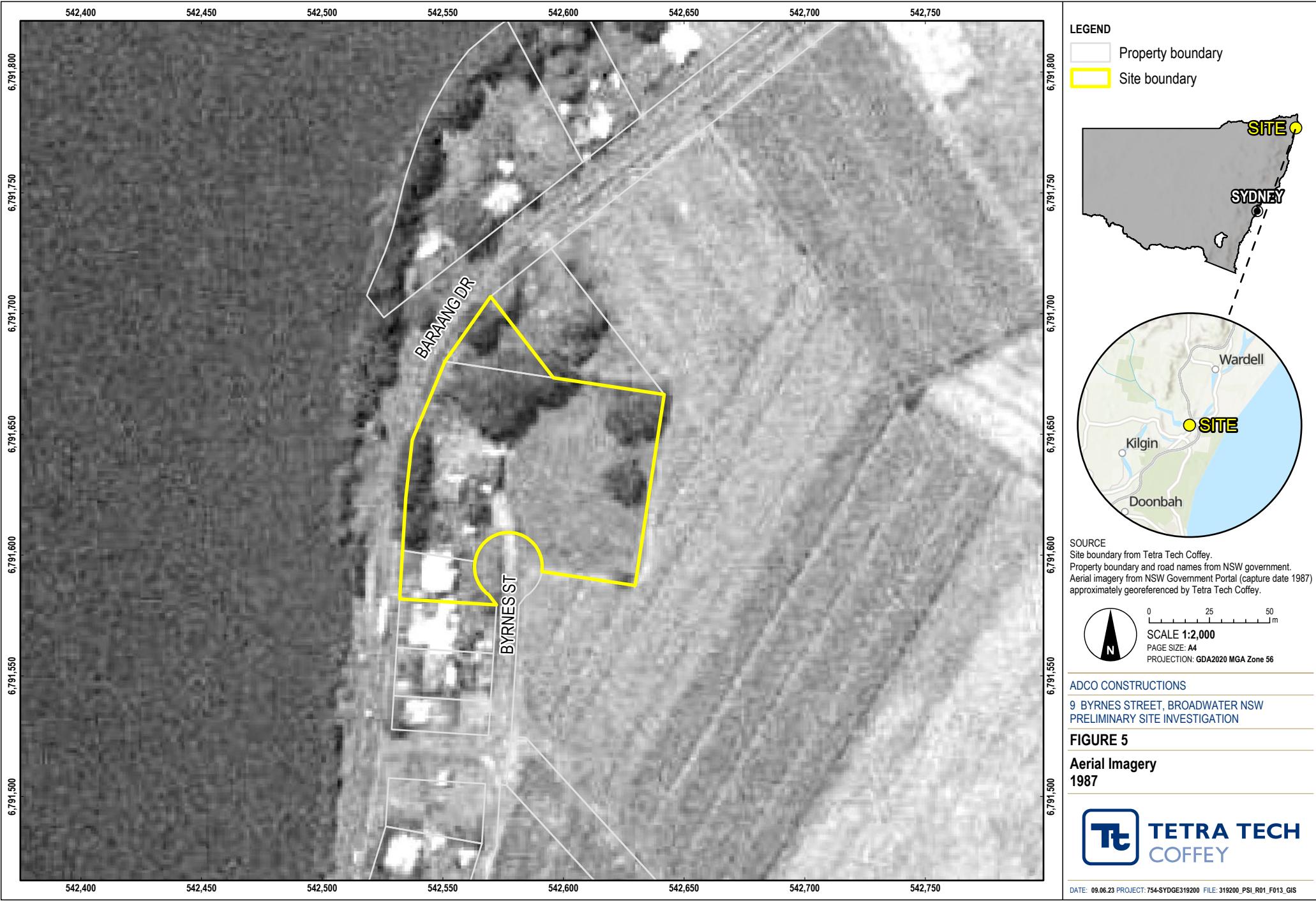
SOURCE
Site boundary from Tetra Tech Coffey.
Property boundary and road names from NSW government.
Aerial imagery from NSW Government Portal (capture date 1979)
approximately georeferenced by Tetra Tech Coffey.

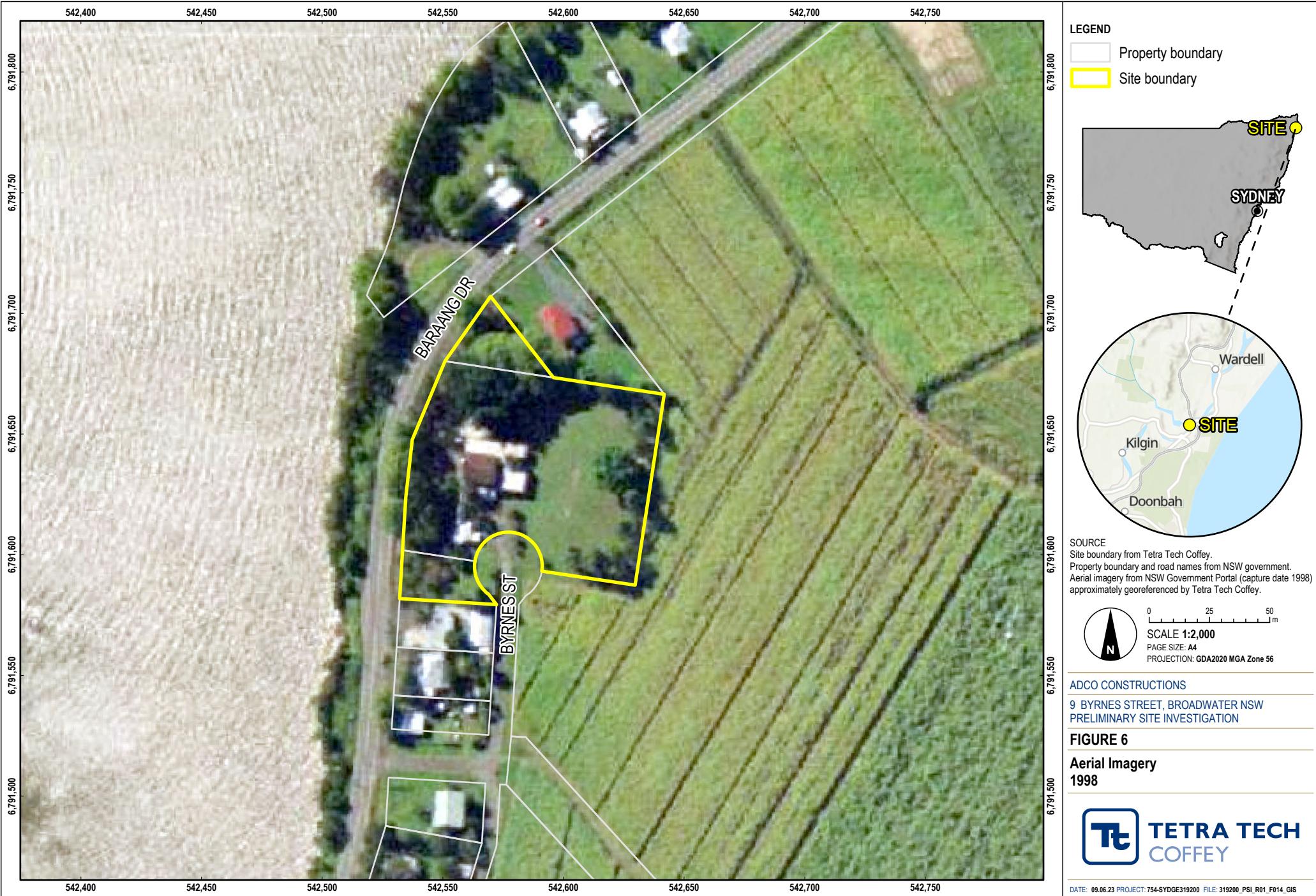


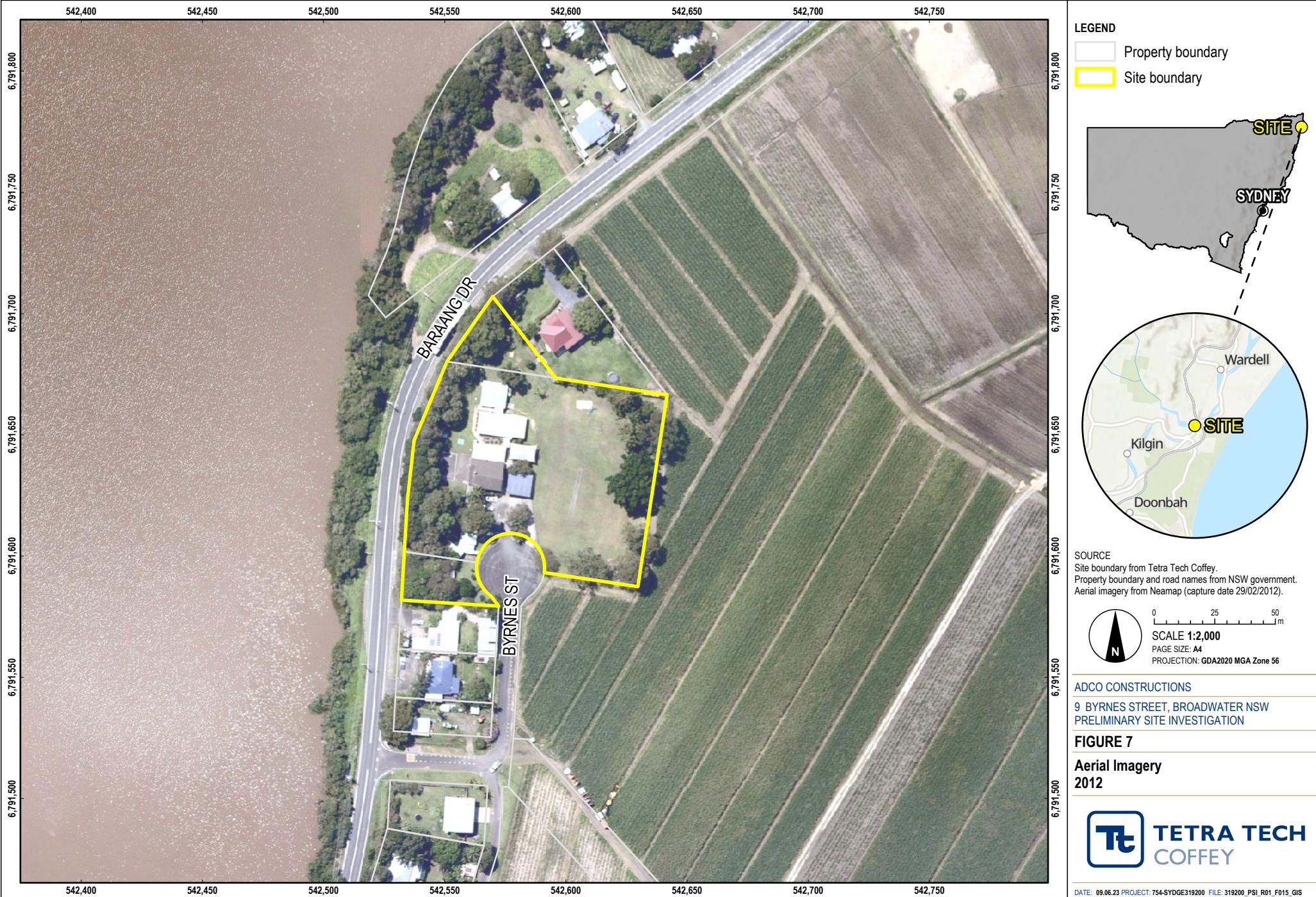
ADCO CONSTRUCTIONS
9 BYRNES STREET, BROADWATER NSW
PRELIMINARY SITE INVESTIGATION

FIGURE 4
Aerial Imagery
1979



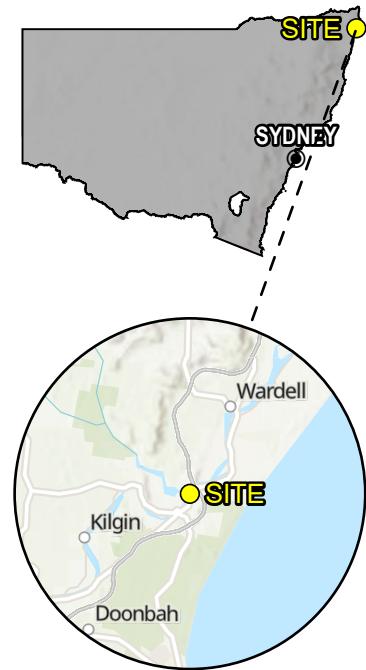






**LEGEND**

- Property boundary
- Site boundary



SOURCE
Site boundary from Tetra Tech Coffey.
Property boundary and road names from NSW government.
Aerial imagery from Neamap (capture date 16/07/2022).

**ADCO CONSTRUCTIONS**

9 BYRNES STREET, BROADWATER NSW
PRELIMINARY SITE INVESTIGATION

FIGURE 8
Aerial Imagery
2022



APPENDIX B: PHOTOGRAPHS



Photograph 1: Unoccupied, flood damaged buildings barricaded with chain link fencing



Photograph 2: Foundations of a previous structure, cinder blocks and PVC pipes, located west of the playground



Photograph 3: Foundations of a previous structure, bricks, located south of the playground



Photograph 4: Stockpile, comprising sandy soils, located within the north east portion of the site



Photograph 5: drainage culvert located offsite in the southwest corner.



Photograph 6: Example of clay surface soils at SS2

APPENDIX C: LABORATORY REPORT AND SUMMARY TABLES

EQL	Physical Parameters		Metals												Organic Compounds				Ethylenediamine
	Cation Exchange Capacity (CEC) meg/100g	Moisture Content (dried @ 103°C) %	Arsenic mg/kg	Cadmium mg/kg	Chromium (III+VI) mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Mercury mg/kg	Nickel mg/kg	Zinc mg/kg	Benzene		Toluene		Ethylenediamine mg/kg			
												Benzene ug/L	Toluene ug/L	Ethylenediamine mg/kg	Ethylenediamine mg/kg				
CRC Care HSL-A Residential(Low Density)	-	-	-	-	-	-	-	-	-	-	-	100	-	14,000	-	4,500			
NEPM 2013 Table 1A(1) HILs Res A Soil	-	-	100	20	-	6,000	-	300	40	400	7,400	-	-	-	-	-			
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	0.5 0.5 0.5 0.5	-	160 220 310 540	-	55			
NEPM 2013 Table 1B(5) EIL - Urban Res & Public Open Space	-	-	100	-	190	65	-	1100	-	35	190	-	-	-	-	-			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	50	-	85	-	70			
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Field ID	Date	Lab Report Number	Sample Code																
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	2.8	11	<2	<0.4	<5	<5	1,700	10	<0.1	<5	15	<0.1	-	<0.1	-	<0.1
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	24	<2	<0.4	34	22	-	10	<0.1	18	51	<0.1	-	<0.1	-	<0.1
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	2.2	9.2	<2	<0.4	<5	<5	2,200	8.6	<0.1	<5	18	<0.1	-	<0.1	-	<0.1
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	31	2.0	<0.4	37	14	-	10	<0.1	17	46	<0.1	-	<0.1	-	<0.1
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	19	<2	<0.4	11	6.2	-	13	<0.1	9.0	44	<0.1	-	<0.1	-	<0.1
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	28	<2	<0.4	35	13	-	9.0	<0.1	12	33	<0.1	-	<0.1	-	<0.1
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	8.2	<2	<0.4	<5	<5	-	8.8	<0.1	<5	22	<0.1	-	<0.1	-	<0.1
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	28	<2	<0.4	34	18	-	10	<0.1	17	49	<0.1	-	<0.1	-	<0.1
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	19	<2	<0.4	<5	<5	-	5.6	<0.1	<5	13	<0.1	-	<0.1	-	<0.1
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	10.0	<2	<0.4	<5	<5	-	<5	<0.1	<5	11	<0.1	-	<0.1	-	<0.1
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	18	<2	<0.4	14	14	-	43	0.1	9.7	82	<0.1	-	<0.1	-	<0.1
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	17	<2	<0.4	30	14	-	27	<0.1	9.1	48	<0.1	-	<0.1	-	<0.1
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	-	15	3.2	<0.4	7.1	7.2	-	15	<0.1	<5	29	<0.1	-	<0.1	-	<0.1
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	3.0	9.8	<2	<0.4	<5	<5	5,100	5.4	<0.1	<5	31	<0.1	-	<0.1	-	<0.1
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	8.3	<2	<0.4	<5	<5	-	<5	<0.1	<5	9.3	<0.1	-	<0.1	-	<0.1
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-	-	-	<1	-	<1	-	-

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil

EQL	BTEX																					
	Xylylene		Xylene (m & p)		Xylene (o)		Xylene Total		Naphthalene (VOC)		ACM - Comment		AF - Comment		Asbestos Reported Result		Mass ACM		Mass AF		Mass Asbestos in ACM	
	ug/L	mg/kg	ug/L	mg/kg	ug/L	mg/kg	ug/L	mg/kg	ug/L	Comment	Comment	Comment	Comment	as	as	as	as	as	as	as	as	
CRC Care HSL-A Residential(Low Density)	-	-	-	-	-	12,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1A(1) HILs Res A Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	40 60 95 170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(5) EIL - Urban Res & Public Open Space	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	-	-	-	-	-	105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Field ID	Date	Lab Report Number	Sample Code	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	1	1	1	0.0000	0.0000	0	0	0	0	
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	1	1	1	0.0000	0.0000	0	0	0	0	
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
TB	03 Jul 2023	1005684	S23-JI0012219	<1	-	<2	-	<1	-	<3	-	<10	-	-	-	-	-	-	-	-	-	-

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil

	Asbestos												NA	Total Recoverable Hydro					
	% Mass Asbestos in FA	% Mass Asbestos in FA & AF	% Mass FA	% Asbestos (ACM in Soil)	% Approximate Sample Mass	% Asbestos (FA & AF in Soil)	FA- Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Tokuition	F1 (C6 - C10)	F1 (C6 - C10) less BTEX	F2 (C10 - C16)					
EQL	-	-	-	-	-	-	-	-	-	-	-	0.2	20	20	20	20	50		
CRC Care HSL-A Residential(Low Density)	-	-	-	-	-	-	-	-	-	-	-	4,400	-	-	-	-	3,300		
NEPM 2013 Table 1A(1) HILs Res A Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	45 70 110 200	-	-	-	-		
NEPM 2013 Table 1B(5) EIL - Urban Res & Public Open Space	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	180	-	-	-	-		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	700	-	-	-	-	1,000		

Field ID	Date	Lab Report Number	Sample Code	-		-		-		-		<0.2		<20		-		<20	
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	-	-	-	-	-	-	-	-	-	-	<0.2	<20	-	<20	-	<50
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	<50
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	<50	
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	<50	
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	<50	
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	<50	
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	<50	
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	<50	
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	<50	
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	<50	
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	<50	
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	<50	
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	0	0	0.0000	0	387	0	1	1	0	1	-	<20	-	<20	-	<50
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	0	0	0.0000	0	349	0	1	1	1	1	<0.2	<20	-	<20	-	<50
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	<50	
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-	-	<20	-	<20	-	-	

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil

EQL	Total Petroleum Hydrocarbons				Inorganics											
	Total Petroleum Hydrocarbons				Inorganics											
	F2 C10 - C16 (minus Naphthalene)	F3 (C16 - C34)	F4 (C34 - C40)	C10 - C40 (Sum of total)	C6 - C9	C10 - C14	C15 - C28	C29 - C36	C10 - C36 (Sum of total)	Conductivity (1:5 aqueous extract)	TOC	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+)fluoranthene	Acenaphthene
EQL	50	100	100	100	20	20	20	50	50	10	1,000	0.5	0.5	0.5	0.5	0.5
CRC Care HSL-A Residential(Low Density)	-	4,500	6,300	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil	-	-	-	-	-	-	-	-	-	-	-	3	3	3	-	-
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	110 240 440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) EIL - Urban Res & Public Open Space	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	120	300	2,800	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	2,500	10,000	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number	Sample Code	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	12	5,000	0.6	1.2	<0.5	<0.5	<0.5
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	12	5,000	0.6	1.2	<0.5	<0.5	<0.5
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	<10	8,000	0.6	1.2	<0.5	<0.5	<0.5
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	<10	10,000	0.6	1.2	<0.5	<0.5	<0.5
DUP1	03 Jul 2023	1005684	S23-JI0012217	<50	<100	<100	<100	<20	-	<20	<50	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	<20	-	-	-	-	-	-	-	-	-	-	

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil

EQL	Polycyclic Aromatic Hydrocarbons															Halogenated Benzenes
	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Hexachlorobenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CRC Care HSL-A Residential(Low Density)	-	-	-	-	-	-	-	-	-	-	-	1,400	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300	10
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
NEPM 2013 Table 1B(5) EIL - Urban Res & Public Open Space	-	-	-	-	-	-	-	-	-	-	-	170	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	-	-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number	Sample Code	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<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	<0.05
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	<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	-
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	<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
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	<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
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	<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
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	<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
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	<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
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	<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
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	<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
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	<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
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	<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
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	<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
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	<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
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<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	<0.05
DUP1	03 Jul 2023	1005684	S23-JI0012217	<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	-
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-	-	-	-	-	

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil

EQL	OCP		Organop																	
	Organochlorine pesticides EPAVIC	Other organochlorine pesticides EPAVIC	Azinphos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Disulfoton	Dimethoate	Ethoprop	Ethion	Fentrothion			
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CRC Care HSL-A Residential(Low Density)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(1) HILs Res A Soil	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(5) EIL - Urban Res & Public Open Space	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number	Sample Code	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil

Hosphorous Pesticides																		
EQL	Fensulfothion	Fenthion	EPN	Merphos	Malathion	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Pyrazophos	Ronnel	Terbufos	Trichloronate	Tetrachlorvinphos	4,4-DDE	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
CRC Care HSL-A Residential(Low Density)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1A(1) HILs Res A Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(5) EIL - Urban Res & Public Open Space	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Field ID	Date	Lab Report Number	Sample Code	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.05
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.05	
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil

Organochlorine Pesticides																		
	a-BHC	Aldrin	Aldrin + Dieldrin	b-BHC	chlordane	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endrin aldehyde	Endrin ketone	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	g-BHC (Lindane)	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
CRC Care HSL-A Residential(Low Density)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1A(1) HILs Res A Soil	-	-	6	-	50	-	-	-	240	-	-	-	-	-	-	10	-	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(5) EIL - Urban Res & Public Open Space	-	-	-	-	-	-	-	180	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Field ID	Date	Lab Report Number	Sample Code	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil

EQL					Pesticides		SPOCAS	
	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	Parathion	Pirimiphos-methyl	Reaction Rate	Field pH of Peroxide extract
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	pH Unit
CRC Care HSL-A Residential(Low Density)	0.05	0.05	0.05	0.5	0.2	0.2	0	0.1
NEPM 2013 Table 1A(1) HILs Res A Soil	-	-	-	-	-	-	-	-
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand	6	-	300	20	-	-	-	-
NEPM 2013 Table 1B(5) EIL - Urban Res & Public Open Space	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil	-	-	-	-	-	-	-	-
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number	Sample Code	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	-	-	-
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	-	-	-
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	-	-	-	-	-	-	-	-
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	1.0	3.3	6.4
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	-	-	-	-	-	-	-	-
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	1.0	2.6	5.7
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	-	-	-	-	-	-	-	-
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	-	-	-	-	-	-	-	-
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	-	-	-	-	-	-	-	-
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	-	-	-	-	-	-	-	-
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	-	-	-	-	-	-	-	-
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	-	-	-	-	-	-	-	-
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	-	-	-	-	-	-	-	-
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	-	-	-	-	-	-	-	-	-
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<0.05	<0.05	<0.05	<0.5	<0.2	<0.2	-	-	-
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	-	-	-	-	-	-	-	-
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil

EQL	Physical Parameters		Metals										Organic Compounds			
	Cation Exchange Capacity (CEC) meg/100g	Moisture Content (dried @ 103°C) %	Arsenic mg/kg	Cadmium mg/kg	Chromium (III+VI) mg/kg	Copper mg/kg	Iron mg/kg	Lead mg/kg	Mercury mg/kg	Nickel mg/kg	Zinc mg/kg	Benzene ug/L	Toluene mg/kg	Ethylbenzene ug/L		
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	100	20	-	-	-	100	4	40	-	10	-	288	-	600
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	500	100	-	-	-	1,500	50	1,050	-	18	-	518	-	1,080
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	500	-	14,400	-	30,000
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	400	80	-	-	-	400	16	160	-	40	-	1,152	-	2,400
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	2,000	400	-	-	-	6,000	200	4,200	-	72	-	2,073	-	4,320
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	2,000	-	57,600	-	120,000

Field ID	Date	Lab Report Number	Sample Code	2.8	11	<2	<0.4	<5	<5	1,700	10	<0.1	<5	15	<0.1	-	<0.1	-	<0.1	-
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	2.8	11	<2	<0.4	<5	<5	1,700	10	<0.1	<5	15	<0.1	-	<0.1	-	<0.1	-
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	24	<2	<0.4	34	22	-	10	<0.1	18	51	<0.1	-	<0.1	-	<0.1	-
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	2.2	9.2	<2	<0.4	<5	<5	2,200	8.6	<0.1	<5	18	<0.1	-	<0.1	-	<0.1	-
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	31	2.0	<0.4	37	14	-	10	<0.1	17	46	<0.1	-	<0.1	-	<0.1	-
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	19	<2	<0.4	11	6.2	-	13	<0.1	9.0	44	<0.1	-	<0.1	-	<0.1	-
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	28	<2	<0.4	35	13	-	9.0	<0.1	12	33	<0.1	-	<0.1	-	<0.1	-
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	8.2	<2	<0.4	<5	<5	-	8.8	<0.1	<5	22	<0.1	-	<0.1	-	<0.1	-
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	28	<2	<0.4	34	18	-	10	<0.1	17	49	<0.1	-	<0.1	-	<0.1	-
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	19	<2	<0.4	<5	<5	-	5.6	<0.1	<5	13	<0.1	-	<0.1	-	<0.1	-
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	10.0	<2	<0.4	<5	<5	-	<5	<0.1	<5	11	<0.1	-	<0.1	-	<0.1	-
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	18	<2	<0.4	14	14	-	43	0.1	9.7	82	<0.1	-	<0.1	-	<0.1	-
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	17	<2	<0.4	30	14	-	27	<0.1	9.1	48	<0.1	-	<0.1	-	<0.1	-
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	-	15	3.2	<0.4	7.1	7.2	-	15	<0.1	<5	29	<0.1	-	<0.1	-	<0.1	-
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	3.0	9.8	<2	<0.4	<5	<5	5,100	5.4	<0.1	<5	31	<0.1	-	<0.1	-	<0.1	-
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	8.3	<2	<0.4	<5	<5	-	<5	<0.1	<5	9.3	<0.1	-	<0.1	-	<0.1	-
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-	-	-	<1	-	<1	-	<1	-

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
 NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
 NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

EQL	BTX										Asbestos																	
	Xylene (m & p)		Xylene (o)		Xylene Total		Naphthalene (VOC)		Naphthalene (VOC)		ACM - Comment		AF - Comment		Asbestos Reported Result		Mass ACM		Mass AF		Mass Asbestos in ACM		Mass Asbestos in AF		Mass Asbestos in FA		Mass Asbestos in FA & AF	
	mg/kg	ug/L	mg/kg	ug/L	mg/kg	ug/L	mg/kg	ug/L	Comment	Comment	Comment	Comment	Comment	Comment	Asbestos Result	Mass ACM	Mass AF	Mass Asbestos in ACM	Mass Asbestos in AF	Mass Asbestos in FA	Mass Asbestos in FA & AF							
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	-	-	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	-	-	1,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	50,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	-	-	4,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	-	-	7,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	200,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					

Field ID	Date	Lab Report Number	Sample Code	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	-
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	<0.2	-	<0.1	-	<0.3	-	<0.5	-	1	1	1	0.0000	0.0000	0	0	0	0	
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<0.2	-	<0.1	-	<0.3	-	<0.5	-	1	1	1	0.0000	0.0000	0	0	0	0	
DUP1	03 Jul 2023	1005684	S23-JI0012217	<0.2	-	<0.1	-	<0.3	-	<0.5	-	-	-	-	-	-	-	-	-	-	
TB	03 Jul 2023	1005684	S23-JI0012219	-	<2	-	<1	-	<3	-	<10	-	-	-	-	-	-	-	-	-	-

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
 NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
 NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

EQL	Total Recoverable Hydrocarbons															
	% Mass FA	Asbestos (ACM in Soil)	Approximate Sample Mass	Asbestos (FA & AF in Soil)	FA- Comment	Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	NA	F1 (C6 - C10)	F1 (C6 - C10) less BTEX	F2 (C10 - C16)	F2 C10 - C16 (minus Naphthalene)	F3 (C16 - C34)	F4 (C34 - C40)
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number	Sample Code	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	-	-	-	-	-	-	<0.2	<20	-	<20	-	<50	<50
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	-	-	-	-	-	-	<20	-	<20	-	<50	<50
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	-	-	-	-	-	-	-	<20	-	<20	-	<50	<50
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	-	-	-	-	-	-	<20	-	<20	-	<50	<50
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	-	-	-	-	-	-	<20	-	<20	-	<50	<50
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	-	-	-	-	-	-	<20	-	<20	-	<50	<50
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	-	-	-	-	-	-	<20	-	<20	-	<50	<50
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	-	-	-	-	-	-	<20	-	<20	-	<50	<50
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	-	-	-	-	-	-	<20	-	<20	-	<50	<50
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	-	-	-	-	-	-	<20	-	<20	-	<50	<50
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	-	-	-	-	-	-	<20	-	<20	-	<50	<50
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	-	-	-	-	-	-	<20	-	<20	-	<50	<50
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	0.0000	0	387	0	1	1	0	1	-	<20	-	<50	<50
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	0.0000	0	349	0	1	1	1	1	<0.2	<20	-	<50	<50
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	-	-	-	-	-	-	-	-	<20	-	<50	<50
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-	<20	-	-	-

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
 NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
 NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

EQL	C10 - C40 (Sum of total)	Total Petroleum Hydrocarbons						Inorganics										
		C6 - C9		C10 - C14	C15 - C28	C29 - C36	C10 - C36 (Sum of total)		Conductivity (1.5 aqueous extract)	TOC	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene
		mg/kg	mg/kg	ug/L	mg/kg	mg/kg	mg/kg	mg/kg	uS/cm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
NSW 2014 General Solid Waste CT1 (No Leaching)	-	650	-	-	-	-	10,000	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste SCC1 (with leached)	-	6,500	-	-	-	-	10,000	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	2,600	-	-	-	-	40,000	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	2,600	-	-	-	-	40,000	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Field ID	Date	Lab Report Number	Sample Code	<100	<20	-	<20	<50	<50	12	5,000	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<100	<20	-	<20	<50	<50	12	5,000	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	<100	<20	-	<20	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	<100	<20	-	<20	<50	<50	<10	8,000	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	<100	<20	-	<20	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	<100	<20	-	<20	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	<100	<20	-	<20	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	<100	<20	-	<20	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	<100	<20	-	<20	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	<100	<20	-	<20	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	<100	<20	-	<20	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	<100	<20	-	<20	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	<100	<20	-	<20	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	<100	<20	-	<20	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5	<0.5
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<100	<20	-	<20	<50	<50	<10	10,000	0.6	1.2	<0.5	<0.5	<0.5	<0.5
DUP1	03 Jul 2023	1005684	S23-JI0012217	<100	<20	-	<20	<50	<50	-	-	0.6	1.2	<0.5	<0.5	<0.5	<0.5
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	<20	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
 NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
 NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

EQL	Polycyclic Aromatic Hydrocarbons													Halogenated Benzenes	OCP	
	Benzo(a) pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-c,d]pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)				
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
NSW 2014 General Solid Waste CT1 (No Leaching)	0.5	0.5	0.5	0.5	0.5	-	-	-	-	-	-	200	-	-	-	
NSW 2014 General Solid Waste SCC1 (with leached)	10	-	-	-	-	-	-	-	-	-	-	200	-	-	-	
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	3.2	-	-	-	-	-	-	-	-	-	-	800	-	-	-	
NSW 2014 Restricted Solid Waste SCC2 (with leached)	23	-	-	-	-	-	-	-	-	-	-	800	-	-	-	
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Field ID	Date	Lab Report Number	Sample Code	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.1	<0.1	<0.2
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.1	<0.1	<0.2
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.1	<0.1
DUP1	03 Jul 2023	1005684	S23-JI0012217	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
 NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
 NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

EQL	Organophosphorous Pesticides																	
	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Disulfoton	Dimethoate	Ethoprop	Ethion	Fenitrothion	Fensulfothion	Fenthion	EPN	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Field ID	Date	Lab Report Number	Sample Code	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
 NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
 NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

	Morphos	Malathion	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Pyrazophos	Ronnel	Tebufos	Trichloronate	Tetrachlorvinphos				
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	4,4-DDE	a-BHC	Aldrin	Aldrin + Dieldrin
EQL	0.2	0.2	0.2	0.2	2	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.05	0.05	0.05	0.05
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Field ID	Date	Lab Report Number	Sample Code	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
 NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
 NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

EQL	Organochlorine Pesticides																	
	b-BHC	chlordane	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endrin aldehyde	Endrin ketone	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NSW 2014 General Solid Waste CT1 (No Leaching)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Field ID	Date	Lab Report Number	Sample Code	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
 NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
 NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
 NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

EQL	Pesticides			SPOCAS		
	Toxaphene	Parathion	Primiphos-methyl	Reaction Rate	Field pH of Peroxide extract	pH (F)
	mg/kg	mg/kg	mg/kg	-	pH Unit	pH Unit
NSW 2014 General Solid Waste CT1 (No Leaching)	0.5	0.2	0.2	0	0.1	0.1
NSW 2014 General Solid Waste SCC1 (with leached)	-	-	-	-	-	-
NSW 2014 General Solid Waste TCLP1 (leached)	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste SCC2 (with leached)	-	-	-	-	-	-
NSW 2014 Restricted Solid Waste TCLP2 (leached)	-	-	-	-	-	-

Field ID	Date	Lab Report Number	Sample Code	<0.5	<0.2	<0.2	-	-	-
BROAD C-BH1 0.1-0.5	03 Jul 2023	1005684	S23-JI0012203	<0.5	<0.2	<0.2	-	-	-
BROAD C-BH1 0.5-1.0	03 Jul 2023	1005684	S23-JI0012204	-	-	-	-	-	-
BROAD C-BH1 6.8-7.0	03 Jul 2023	1005684	S23-JI0012205	-	-	-	1.0	3.3	6.4
BROAD C-BH2 0.1-0.35	03 Jul 2023	1005684	S23-JI0012206	-	-	-	-	-	-
BROAD C-BH2 0.35-0.8	03 Jul 2023	1005684	S23-JI0012207	-	-	-	-	-	-
BROAD C-BH2 6.8-7.0	03 Jul 2023	1005684	S23-JI0012208	-	-	-	1.0	2.6	5.7
BROAD E-BH1 0.1-0.4	03 Jul 2023	1005684	S23-JI0012209	-	-	-	-	-	-
BROAD E-BH1 0.4-1.0	03 Jul 2023	1005684	S23-JI0012210	-	-	-	-	-	-
BROAD E-BH2 0.1-0.5	03 Jul 2023	1005684	S23-JI0012229	-	-	-	-	-	-
BROAD E-BH2 0.5-1.0	03 Jul 2023	1005684	S23-JI0012230	-	-	-	-	-	-
BR-SS1	03 Jul 2023	1005684	S23-JI0012211	-	-	-	-	-	-
BR-SS2	03 Jul 2023	1005684	S23-JI0012212	-	-	-	-	-	-
BR-SS3	03 Jul 2023	1005684	S23-JI0012213	-	-	-	-	-	-
BR-SS4	03 Jul 2023	1005684	S23-JI0012214	-	-	-	-	-	-
BR-SS5	03 Jul 2023	1005684	S23-JI0012215	-	-	-	-	-	-
BR-SS6	03 Jul 2023	1005684	S23-JI0012216	<0.5	<0.2	<0.2	-	-	-
DUP1	03 Jul 2023	1005684	S23-JI0012217	-	-	-	-	-	-
TB	03 Jul 2023	1005684	S23-JI0012219	-	-	-	-	-	-

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

			Lab Report Number	1005684	1005684	
			Field ID	BR-SS2	DUP1	
			Matrix Type	Soil	Soil	
			Date	03 Jul 2023	03 Jul 2023	RPD
	Unit	EQL	RPD			
Physical Parameters						
Cation Exchange Capacity (CEC)	meq/100g	0.5		-	-	-
Moisture Content (dried @ 103°C)	%	1		10.0	8.3	19
Metals						
Arsenic	mg/kg	2		<2	<2	0
Cadmium	mg/kg	0.4		<0.4	<0.4	0
Chromium (III+VI)	mg/kg	5		<5	<5	0
Copper	mg/kg	5		<5	<5	0
Iron	mg/kg	20		-	-	-
Lead	mg/kg	5		<5	<5	0
Mercury	mg/kg	0.1		<0.1	<0.1	0
Nickel	mg/kg	5		<5	<5	0
Zinc	mg/kg	5		11	9.3	17
BTEX						
Benzene	mg/kg	0.1		<0.1	<0.1	0
Toluene	mg/kg	0.1		<0.1	<0.1	0
Ethylbenzene	mg/kg	0.1		<0.1	<0.1	0
Xylene (m & p)	mg/kg	0.2		<0.2	<0.2	0
Xylene (o)	mg/kg	0.1		<0.1	<0.1	0
Xylene Total	mg/kg	0.3		<0.3	<0.3	0
Naphthalene (VOC)	mg/kg	0.5		<0.5	<0.5	0
NA						
Tokuthion	mg/kg	0.2		-	-	-
Total Recoverable Hydrocarbons						
F1 (C6 - C10)	mg/kg	20		<20	<20	0
F1 (C6 - C10) less BTEX	mg/kg	20		<20	<20	0
F2 (C10 - C16)	mg/kg	50		<50	<50	0
F2 C10 - C16 (minus Naphthalene)	mg/kg	50		<50	<50	0
F3 (C16 - C34)	mg/kg	100		<100	<100	0
F4 (C34 - C40)	mg/kg	100		<100	<100	0
C10 - C40 (Sum of total)	mg/kg	100		<100	<100	0
Total Petroleum Hydrocarbons						
C6 - C9	mg/kg	20		<20	<20	0
C10 - C14	mg/kg	20		<20	<20	0
C15 - C28	mg/kg	50		<50	<50	0
C29 - C36	mg/kg	50		<50	<50	0
C10 - C36 (Sum of total)	mg/kg	50		<50	<50	0
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5		0.6	0.6	0
Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5		1.2	1.2	0
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5		<0.5	<0.5	0
Benzo(b+j)fluoranthene	mg/kg	0.5		<0.5	<0.5	0
Acenaphthene	mg/kg	0.5		<0.5	<0.5	0
Acenaphthylene	mg/kg	0.5		<0.5	<0.5	0
Anthracene	mg/kg	0.5		<0.5	<0.5	0
Benz(a)anthracene	mg/kg	0.5		<0.5	<0.5	0
Benzo(a) pyrene	mg/kg	0.5		<0.5	<0.5	0
Benzo(g,h,i)perylene	mg/kg	0.5		<0.5	<0.5	0
Benzo(k)fluoranthene	mg/kg	0.5		<0.5	<0.5	0
Chrysene	mg/kg	0.5		<0.5	<0.5	0
Dibenz(a,h)anthracene	mg/kg	0.5		<0.5	<0.5	0
Fluoranthene	mg/kg	0.5		<0.5	<0.5	0
Fluorene	mg/kg	0.5		<0.5	<0.5	0
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5		<0.5	<0.5	0
Naphthalene	mg/kg	0.5		<0.5	<0.5	0
Phenanthrene	mg/kg	0.5		<0.5	<0.5	0
Pyrene	mg/kg	0.5		<0.5	<0.5	0
PAHs (Sum of total)	mg/kg	0.5		<0.5	<0.5	0
Halogenated Benzenes						
Hexachlorobenzene	mg/kg	0.05		-	-	-
OCP						
Organochlorine pesticides EPA Vic	mg/kg	0.1		-	-	-
Other organochlorine pesticides						
EPA Vic	mg/kg	0.1		-	-	-
Organophosphorous Pesticides						
Azinophos methyl	mg/kg	0.2		-	-	-
Bolstar (Sulprofos)	mg/kg	0.2		-	-	-
Chlorfenvinphos	mg/kg	0.2		-	-	-
Chlorpyrifos	mg/kg	0.2		-	-	-
Chlorpyrifos-methyl	mg/kg	0.2		-	-	-
Coumaphos	mg/kg	2		-	-	-
Demeton-O	mg/kg	0.2		-	-	-
Demeton-S	mg/kg	0.2		-	-	-
Diazinon	mg/kg	0.2		-	-	-
Dichlorvos	mg/kg	0.2		-	-	-
Disulfoton	mg/kg	0.2		-	-	-
Dimethoate	mg/kg	0.2		-	-	-
Ethoprop	mg/kg	0.2		-	-	-
Ethion	mg/kg	0.2		-	-	-
Fenitrothion	mg/kg	0.2		-	-	-
Fensulfothion	mg/kg	0.2		-	-	-
Fenthion	mg/kg	0.2		-	-	-
EPN	mg/kg	0.2		-	-	-
Merphos	mg/kg	0.2		-	-	-
Malathion	mg/kg	0.2		-	-	-
Methyl parathion	mg/kg	0.2		-	-	-
Mevinphos (Phosdrin)	mg/kg	0.2		-	-	-
Monocrotophos	mg/kg	2		-	-	-
Naled (Dibrom)	mg/kg	0.2		-	-	-
Omethoate	mg/kg	2		-	-	-
Phorate	mg/kg	0.2		-	-	-
Pyrazophos	mg/kg	0.2		-	-	-
Ronnel	mg/kg	0.2		-	-	-
Terbufos	mg/kg	0.2		-	-	-
Trichloronate	mg/kg	0.2		-	-	-
Tetrachlorvinphos	mg/kg	0.2		-	-	-
Organochlorine Pesticides						
4,4-DDE	mg/kg	0.05		-	-	-
a-BHC	mg/kg	0.05		-	-	-

	Unit	EQL	RPD	1005684	1005684	RPD
				Field ID	Matrix Type	
				BR-SS2	Soil	
				Date	03 Jul 2023	
Aldrin	mg/kg	0.05		-	-	-
Aldrin + Dieldrin	mg/kg	0.05		-	-	-
b-BHC	mg/kg	0.05		-	-	-
chlordane	mg/kg	0.1		-	-	-
d-BHC	mg/kg	0.05		-	-	-
DDD	mg/kg	0.05		-	-	-
DDT	mg/kg	0.05		-	-	-
DDT+DDE+DDD	mg/kg	0.05		-	-	-
Dieldrin	mg/kg	0.05		-	-	-
Endrin aldehyde	mg/kg	0.05		-	-	-
Endrin ketone	mg/kg	0.05		-	-	-
Endosulfan I	mg/kg	0.05		-	-	-
Endosulfan II	mg/kg	0.05		-	-	-
Endosulfan sulphate	mg/kg	0.05		-	-	-
Endrin	mg/kg	0.05		-	-	-
g-BHC (Lindane)	mg/kg	0.05		-	-	-
Heptachlor	mg/kg	0.05		-	-	-
Heptachlor epoxide	mg/kg	0.05		-	-	-
Methoxychlor	mg/kg	0.05		-	-	-
Toxaphene	mg/kg	0.5		-	-	-
Pesticides						
Parathion	mg/kg	0.2		-	-	-
Pirimiphos-methyl	mg/kg	0.2		-	-	-

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 50 (1 - 10 x EQL); 50 (10 - 10 x EQL); 30 (> 10 x EQL))

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page **3** of **5**



Consigning Office: kelsie.mcgillen@tetratech.com
 Report Results to: Edward.Wu@tetratech.com
 Mobile: 61294061030 Email:
 Invoices to: Accounts Phone:

Project No: SYDGE319200 Task No:
 Project Name: Northern Rivers Laboratory:
 Sampler's Name: Kelsie McGillen

Quote number (if different to current quoted price):
 Special Instructions:

Lab Batch Ref	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	NOTES
	C/M - SSI	4/7/23		Soil	J Z	Standard	X
"	SSI			"	"		X
"	SSJ			"	"		X
"	SSK			"	"		X
"	SSL			"	"		X
"	SSM			"	"		X
"	SSN			"	"		X
B/L - SSI				"	"		X
"	SS1			"	"		X
"	SS2			"	"		X
"	SS3			"	"		X
"	SS4			"	"		X
"	SS5			"	"		X
"	SS6			"	"		X
"	WA - CBH 10-0-1			J	J		
"	" 0-1-0-3			J	J		
"	" 0-3-0-8			J	J		
"	" 1-0-1-25			Z	Z		

RELINQUISHED BY

Name: *Kelsie McGillen* Date: **5/7/23**
 Coffey Time:

Name: Date:
 Company: Time:

RECEIVED BY

Sample Receipt Advice: (Lab Use Only)	
<input type="checkbox"/>	All Samples Received in Good Condition
<input type="checkbox"/>	All Documentation is in Proper Order
<input type="checkbox"/>	Samples Received Properly Chilled
Lab. Ref/Batch No.: 1005684	

*Container Type & Preservation Codes: P - Plastic, G - Glass Bottle, J - Glass Jar, V - Vial, Z - Ziplock bag, N - Nitric Acid Preserved, C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice, ST - Sodium Thiosulfate, NP .. No Preservative

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



ETRA TECH

ESTRATI

ESTRA

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TETRA TECH COFFEY		Project No.: SYDGE319200	Task No.:	Consigning Office:	kelsie.mcgillen@tetratech.com	Report Results to:	Edward.Wu@ tetratech.com	Mobile:	61294061030	Email:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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CBR1 0-0-1</u>							<u>Asbestos 50g</u>				"	"			J		X	X			"	"			Z		X	X			"	"			J		X	X			<u>WA - CBR1 0-0-1</u>							<u>CEC TOC Iron</u>				"	"			J		X	X			"	"			Z		X	X			"	"			J		X	X			<u>WA - CBR1 0-0-1</u>							<u>B1 (TRH BTEX)</u>				"	"			J		X	X			"	"			Z		X	X			"	"			J		X	X			<u>WA - CBR1 0-0-1</u>							<u>B14 (OCP OPP)</u>				"	"			J		X	X			"	"			Z		X	X			"	"			J		X	X			<u>WA - CBR1 0-0-1</u>							<u>B6 (TRH BTEX PAH 8 Metals)</u>				"	"			J		X	X			"	"			Z		X	X			"	"			J		X	X			<u>WA - CBR1 0-0-1</u>							<u>CEC TOC Iron</u>				"	"			J		X	X			"	"			Z		X	X			"	"			J		X	X			<u>WA - CBR1 0-0-1</u>							<u>Asbestos 50g</u>				"	"			J		X	X			"	"			Z		X	X			"	"			J		X	X			<u>WA - CBR1 0-0-1</u>							<u>ASS Ph Screening</u>				"	"			J		X	X			"	"			Z		X	X			"	"			J		X	X			<u>WA - CBR1 0-0-1</u>							<u>CEC TOC Iron</u>				"	"			J		X	X			"	"			Z		X	X			"	"			J		X	X			<u>WA - CBR1 0-0-1</u>							<u>B1 (TRH BTEX)</u>				"	"			J		X	X			"	"			Z		X	X			"	"			J		X	X			<u>WA - CBR1 0-0-1</u>							<u>B14 (OCP OPP)</u>				"	"			J		X	X			"	"			Z		X	X			"	"			J		X	X			<u>WA - 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Chain of custody
Issued: 5 April 2010
UNCONTROLLED

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ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 25403	Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 18217	1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	1/2 Frost Drive Mayfield West NSW 2304 NATA# 1261 Site# 20794 Site# 25079 & 25289

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Sample Receipt Advice

Company name:	Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
Contact name:	Kelsie McGillen
Project name:	NORTHERN RIVERS
Project ID:	SYDGE319200
Turnaround time:	5 Day
Date/Time received	Jul 6, 2023 9:30 AM
Eurofins reference	1005684

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 2.4 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A** Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Asim Khan on phone : or by email: AsimKhan@eurofins.com

Results will be delivered electronically via email to Kelsie McGillen - kelsie.mcgillen@tetratech.com.

Note: A copy of these results will also be delivered to the general Tetra Tech Coffey Geotechnics Pty Ltd Chatswood email address.





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Fax: +61 2 9406 1002

Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254

Sydney Laboratory - NATA # 1261 Site # 18217

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	X			X	X	
1	BROAD C-BH1 0.1-0.5	Jul 03, 2023		Soil	S23-JI0012203		X	X	X	X	
2	BROAD C-BH1 0.5-1.0	Jul 03, 2023		Soil	S23-JI0012204				X		
3	BROAD C-BH1 6.8-7.0	Jul 03, 2023		Soil	S23-JI0012205			X			
4	BROAD C-BH2 0.1-0.35	Jul 03, 2023		Soil	S23-JI0012206		X	X	X	X	
5	BROAD C-BH2 0.35-0.8	Jul 03, 2023		Soil	S23-JI0012207				X		
6	BROAD C-BH2 6.8-7.0	Jul 03, 2023		Soil	S23-JI0012208			X			
7	BROAD E-BH1 0.1-0.4	Jul 03, 2023		Soil	S23-JI0012209				X	X	



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Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X		
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X	X	X	X
8	BROAD E-BH1 0.4-1.0	Jul 03, 2023		Soil	S23-JI0012210			X		
9	BR-SS1	Jul 03, 2023		Soil	S23-JI0012211				X	
10	BR-SS2	Jul 03, 2023		Soil	S23-JI0012212				X	
11	BR-SS3	Jul 03, 2023		Soil	S23-JI0012213				X	
12	BR-SS4	Jul 03, 2023		Soil	S23-JI0012214				X	
13	BR-SS5	Jul 03, 2023		Soil	S23-JI0012215	X			X	
14	BR-SS6	Jul 03, 2023		Soil	S23-JI0012216	X	X	X	X	
15	DUP1	Jul 03, 2023		Soil	S23-JI0012217				X	
16	TS	Jul 03, 2023		Trip Spike (liquid)	S23-JI0012218					X
17	TB	Jul 03, 2023		Trip Blank (liquid)	S23-JI0012219					X
18	WA-SS1	Jul 04, 2023		Soil	S23-JI0012220	X			X	
19	WA-SS2	Jul 04, 2023		Soil	S23-JI0012221	X			X	
20	WA-SS3	Jul 04, 2023		Soil	S23-JI0012222				X	



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Company Name: Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: NORTHERN RIVERS
Project ID: SYDGE319200

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Fax: +61 2 9406 1002

Received: Jul 6, 2023 9:30 AM
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Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X	
21	WA-SS4	Jul 04, 2023	Soil	S23-JI0012223	X		X	X	
22	WA-SS5	Jul 04, 2023	Soil	S23-JI0012224	X		X	X	
23	DUP2	Jul 04, 2023	Soil	S23-JI0012225			X	X	
24	DUP3	Jul 04, 2023	Soil	S23-JI0012226			X	X	
25	TS	Jul 04, 2023	Trip Spike (liquid)	S23-JI0012227					X
26	TB	Jul 04, 2023	Trip Blank (liquid)	S23-JI0012228				X	
27	BROAD E-BH2 0.1-0.5	Jul 03, 2023	Soil	S23-JI0012229			X	X	
28	BROAD E-BH2 0.5-1.0	Jul 03, 2023	Soil	S23-JI0012230			X	X	
29	EM-SS1	Jul 04, 2023	Soil	S23-JI0012231	X		X	X	
30	EM-SS3	Jul 04, 2023	Soil	S23-JI0012232	X		X	X	
31	EM-SS4	Jul 04, 2023	Soil	S23-JI0012233	X		X	X	
32	EM-SS5	Jul 04, 2023	Soil	S23-JI0012234	X		X	X	



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Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X	
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X	X	X
33	BL-SS1	Jul 04, 2023	Soil	S23-JI0012235	X			X	
34	BL-SS2	Jul 04, 2023	Soil	S23-JI0012236	X			X	
35	BL-SS3	Jul 04, 2023	Soil	S23-JI0012237	X			X	
36	BL-SS4	Jul 04, 2023	Soil	S23-JI0012238	X			X	
37	WA-C BH1 0-0.1	Jul 04, 2023	Soil	S23-JI0012239				X	
38	WA-C BH1 0.1-0.3	Jul 04, 2023	Soil	S23-JI0012240				X	
39	WA-C BH1 0.3-0.8	Jul 04, 2023	Soil	S23-JI0012241	X				
40	WA-C BH1 1.0-1.25	Jul 04, 2023	Soil	S23-JI0012242				X	
41	WA-C BH2 0-0.1	Jul 04, 2023	Soil	S23-JI0012243				X	
42	WA-C BH2 0.1-0.3	Jul 04, 2023	Soil	S23-JI0012244	X	X	X	X	
43	WA-C BH2	Jul 04, 2023	Soil	S23-JI0012245			X		



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Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
43	WA-C BH2 1.5-1.9	Jul 04, 2023		Soil	S23-JI0012245						
44	WA-E BH1 0.1-0.5	Jul 04, 2023		Soil	S23-JI0012246	X			X		
45	WA-E BH1 1.0-1.5	Jul 04, 2023		Soil	S23-JI0012247			X		X	
46	WA-E BH2 0.1-0.4	Jul 04, 2023		Soil	S23-JI0012248				X		X
47	WA-E BH2 0.4-0.8	Jul 04, 2023		Soil	S23-JI0012249	X			X		X
48	WA-E BH2 0.8-1.5	Jul 04, 2023		Soil	S23-JI0012250			X			
49	DUP4	Jul 05, 2023		Soil	S23-JI0012251				X		X
50	EM-C BH1 0-0.1	Jul 05, 2023		Soil	S23-JI0012252	X		X	X	X	
51	EM-C BH1 0.3-0.8	Jul 05, 2023		Soil	S23-JI0012253				X		X



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Melbourne Laboratory - NATA # 1261 Site # 1254								X			X	X		
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X		X	X	X	X	X	X
52	TS	Jul 05, 2023		Trip Spike (liquid)	S23-JI0012254									X
53	TB	Jul 05, 2023		Trip Blank (liquid)	S23-JI0012255									X
54	EMC BH1 1.25-1.5	Jul 05, 2023		Soil	S23-JI0012256				X					
55	BROAD C-BH1 0-0.1	Jul 03, 2023		Soil	S23-JI0012257		X							
56	BROAD C-BH2 0-0.1	Jul 03, 2023		Soil	S23-JI0012258		X							
57	BROAD E-BH1 0-0.1	Jul 03, 2023		Soil	S23-JI0012259		X							
58	BROAD E-BH2 0-0.1	Jul 03, 2023		Soil	S23-JI0012260		X							
59	EM-SS2	Jul 04, 2023		Soil	S23-JI0012261		X							
60	BL-SS5	Jul 04, 2023		Soil	S23-JI0012262		X							
61	WA-C BH2	Jul 04, 2023		Soil	S23-JI0012263		X							



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Company Name: Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
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Project Name: NORTHERN RIVERS
Project ID: SYDGE319200

Order No.:
Report #: 1005684
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X		
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X	X	X	X
0.3-0.8										
62	WA-E BH1 0-0.1	Jul 04, 2023	Soil	S23-JI0012264		X				
63	WA-E BH1 0.5-1.0	Jul 04, 2023	Soil	S23-JI0012265		X				
64	WA-E BH2 0-0.1	Jul 04, 2023	Soil	S23-JI0012266		X				
65	EM-C BH1 0.1-0.3	Jul 05, 2023	Soil	S23-JI0012267		X				
66	EM-C BH1 0.8-1.5	Jul 05, 2023	Soil	S23-JI0012268		X				
Test Counts					19	12	5	5	7	4
							42	5	42	3
										3

Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025—Testing
NATA is a signatory to the ILAC Mutual Recognition
Arrangement for the mutual recognition of the
equivalence of testing, medical testing, calibration,
inspection, proficiency testing scheme providers and
reference materials producers reports and certificates.

Attention:	Kelsie McGillen
Report	1005684-AID
Project Name	NORTHERN RIVERS
Project ID	SYDGE319200
Received Date	Jul 06, 2023
Date Reported	Jul 21, 2023

Methodology:

Asbestos Fibre Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-containing material (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name NORTHERN RIVERS
Project ID SYDGE319200
Date Sampled Jul 03, 2023 to Jul 05, 2023
Report 1005684-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BR-SS5	23-JI0012215	Jul 03, 2023	Approximate Sample 387g Sample consisted of: Grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BR-SS6	23-JI0012216	Jul 03, 2023	Approximate Sample 349g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
WA-SS1	23-JI0012220	Jul 04, 2023	Approximate Sample 190g Sample consisted of: Grey coarse-grained sandy soil, plant residue and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
WA-SS2	23-JI0012221	Jul 04, 2023	Approximate Sample 193g Sample consisted of: Grey fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
WA-SS4	23-JI0012223	Jul 04, 2023	Approximate Sample 202g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
WA-SS5	23-JI0012224	Jul 04, 2023	Approximate Sample 217g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
EM-SS1	23-JI0012231	Jul 04, 2023	Approximate Sample 310g Sample consisted of: Grey fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
EM-SS3	23-JI0012232	Jul 04, 2023	Approximate Sample 282g Sample consisted of: Grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
EM-SS4	23-JI0012233	Jul 04, 2023	Approximate Sample 263g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
EM-SS5	23-JI0012234	Jul 04, 2023	Approximate Sample 249g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BL-SS1	23-JI0012235	Jul 04, 2023	Approximate Sample 233g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BL-SS2	23-JI0012236	Jul 04, 2023	Approximate Sample 171g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BL-SS3	23-JI0012237	Jul 04, 2023	Approximate Sample 321g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BL-SS4	23-JI0012238	Jul 04, 2023	Approximate Sample 294g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
WA-C BH1 0.3-0.8	23-JI0012241	Jul 04, 2023	Approximate Sample 296g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
WA-C BH2 0.1-0.3	23-JI0012244	Jul 04, 2023	Approximate Sample 244g Sample consisted of: Grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
WA-E BH1 0.1-0.5	23-JI0012246	Jul 04, 2023	Approximate Sample 235g Sample consisted of: Grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
WA-E BH2 0.4-0.8	23-JI0012249	Jul 04, 2023	Approximate Sample 189g Sample consisted of: Grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
EM-C BH1 0-0.1	23-JI0012252	Jul 05, 2023	Approximate Sample 239g Sample consisted of: Grey coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jul 07, 2023	Indefinite



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Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	NATA# 1261 Site# 25289 Site# 25079 & 25289

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Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
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Project Name: NORTHERN RIVERS
Project ID: SYDGE319200

Order No.:
Report #: 1005684
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254

Sydney Laboratory - NATA # 1261 Site # 18217

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID														
1	BROAD C-BH1 0.1-0.5	Jul 03, 2023		Soil	S23-JI0012203		X	X		X	X	X	X						
2	BROAD C-BH1 0.5-1.0	Jul 03, 2023		Soil	S23-JI0012204						X		X						
3	BROAD C-BH1 6.8-7.0	Jul 03, 2023		Soil	S23-JI0012205				X										
4	BROAD C-BH2 0.1-0.35	Jul 03, 2023		Soil	S23-JI0012206			X	X			X	X	X					
5	BROAD C-BH2 0.35-0.8	Jul 03, 2023		Soil	S23-JI0012207							X		X					
6	BROAD C-BH2 6.8-7.0	Jul 03, 2023		Soil	S23-JI0012208					X									
7	BROAD E-BH1 0.1-0.4	Jul 03, 2023		Soil	S23-JI0012209							X		X					
				Asbestos - A34964		HOLD													



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Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X		
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X	X	X	X
8	BROAD E-BH1 0.4-1.0	Jul 03, 2023		Soil	S23-JI0012210			X		
9	BR-SS1	Jul 03, 2023		Soil	S23-JI0012211				X	
10	BR-SS2	Jul 03, 2023		Soil	S23-JI0012212				X	
11	BR-SS3	Jul 03, 2023		Soil	S23-JI0012213				X	
12	BR-SS4	Jul 03, 2023		Soil	S23-JI0012214				X	
13	BR-SS5	Jul 03, 2023		Soil	S23-JI0012215	X			X	
14	BR-SS6	Jul 03, 2023		Soil	S23-JI0012216	X	X	X	X	
15	DUP1	Jul 03, 2023		Soil	S23-JI0012217				X	
16	TS	Jul 03, 2023		Trip Spike (liquid)	S23-JI0012218					X
17	TB	Jul 03, 2023		Trip Blank (liquid)	S23-JI0012219					X
18	WA-SS1	Jul 04, 2023		Soil	S23-JI0012220	X			X	
19	WA-SS2	Jul 04, 2023		Soil	S23-JI0012221	X			X	
20	WA-SS3	Jul 04, 2023		Soil	S23-JI0012222				X	



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Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X	
21	WA-SS4	Jul 04, 2023	Soil	S23-JI0012223	X		X	X	
22	WA-SS5	Jul 04, 2023	Soil	S23-JI0012224	X		X	X	
23	DUP2	Jul 04, 2023	Soil	S23-JI0012225			X	X	
24	DUP3	Jul 04, 2023	Soil	S23-JI0012226			X	X	
25	TS	Jul 04, 2023	Trip Spike (liquid)	S23-JI0012227					X
26	TB	Jul 04, 2023	Trip Blank (liquid)	S23-JI0012228				X	
27	BROAD E-BH2 0.1-0.5	Jul 03, 2023	Soil	S23-JI0012229			X	X	
28	BROAD E-BH2 0.5-1.0	Jul 03, 2023	Soil	S23-JI0012230			X	X	
29	EM-SS1	Jul 04, 2023	Soil	S23-JI0012231	X		X	X	
30	EM-SS3	Jul 04, 2023	Soil	S23-JI0012232	X		X	X	
31	EM-SS4	Jul 04, 2023	Soil	S23-JI0012233	X		X	X	
32	EM-SS5	Jul 04, 2023	Soil	S23-JI0012234	X		X	X	



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Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X		
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X	X	X	X
33	BL-SS1	Jul 04, 2023		Soil	S23-JI0012235	X			X	
34	BL-SS2	Jul 04, 2023		Soil	S23-JI0012236	X			X	
35	BL-SS3	Jul 04, 2023		Soil	S23-JI0012237	X			X	
36	BL-SS4	Jul 04, 2023		Soil	S23-JI0012238	X			X	
37	WA-C BH1 0-0.1	Jul 04, 2023		Soil	S23-JI0012239				X	
38	WA-C BH1 0.1-0.3	Jul 04, 2023		Soil	S23-JI0012240				X	
39	WA-C BH1 0.3-0.8	Jul 04, 2023		Soil	S23-JI0012241	X				
40	WA-C BH1 1.0-1.25	Jul 04, 2023		Soil	S23-JI0012242			X	X	
41	WA-C BH2 0-0.1	Jul 04, 2023		Soil	S23-JI0012243				X	
42	WA-C BH2 0.1-0.3	Jul 04, 2023		Soil	S23-JI0012244	X	X	X	X	
43	WA-C BH2	Jul 04, 2023		Soil	S23-JI0012245			X		



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Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
43	WA-C BH2 1.5-1.9	Jul 04, 2023		Soil	S23-JI0012245						
44	WA-E BH1 0.1-0.5	Jul 04, 2023		Soil	S23-JI0012246	X			X		
45	WA-E BH1 1.0-1.5	Jul 04, 2023		Soil	S23-JI0012247			X		X	
46	WA-E BH2 0.1-0.4	Jul 04, 2023		Soil	S23-JI0012248				X		X
47	WA-E BH2 0.4-0.8	Jul 04, 2023		Soil	S23-JI0012249	X			X		X
48	WA-E BH2 0.8-1.5	Jul 04, 2023		Soil	S23-JI0012250			X			
49	DUP4	Jul 05, 2023		Soil	S23-JI0012251				X		X
50	EM-C BH1 0-0.1	Jul 05, 2023		Soil	S23-JI0012252	X		X	X	X	
51	EM-C BH1 0.3-0.8	Jul 05, 2023		Soil	S23-JI0012253				X		X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175	19/8 Lewalan Street Grovedale VIC 3216	179 Magowar Road Girraween NSW 2145	Unit 1,2 Dacre Street Mitchell ACT 2911	1/21 Smallwood Place Murarrie QLD 4172	1/2 Frost Drive Mayfield West NSW 2304
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Company Name: Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
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Project Name: NORTHERN RIVERS
Project ID: SYDGE319200

Order No.:
Report #: 1005684
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254

Sydney Laboratory - NATA # 1261 Site # 18217

				X			X	X		
52	TS	Jul 05, 2023		Trip Spike (liquid)	S23-JI0012254					X
53	TB	Jul 05, 2023		Trip Blank (liquid)	S23-JI0012255					X
54	EMC BH1 1.25-1.5	Jul 05, 2023		Soil	S23-JI0012256		X			
55	BROAD C-BH1 0-0.1	Jul 03, 2023		Soil	S23-JI0012257	X				
56	BROAD C-BH2 0-0.1	Jul 03, 2023		Soil	S23-JI0012258	X				
57	BROAD E-BH1 0-0.1	Jul 03, 2023		Soil	S23-JI0012259	X				
58	BROAD E-BH2 0-0.1	Jul 03, 2023		Soil	S23-JI0012260	X				
59	EM-SS2	Jul 04, 2023		Soil	S23-JI0012261	X				
60	BL-SS5	Jul 04, 2023		Soil	S23-JI0012262	X				
61	WA-C BH2	Jul 04, 2023		Soil	S23-JI0012263	X				



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Eurofins Environment Testing Australia Pty Ltd

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Eurofins Environment Testing NZ Ltd

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Auckland	Tel: +61 8 6253 4444 IANZ# 1327

Company Name: Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: NORTHERN RIVERS
Project ID: SYDGE319200

Order No.:
Report #: 1005684
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X	
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X	X	X
0.3-0.8									
62	WA-E BH1 0-0.1	Jul 04, 2023	Soil	S23-JI0012264	X				
63	WA-E BH1 0.5-1.0	Jul 04, 2023	Soil	S23-JI0012265	X				
64	WA-E BH2 0-0.1	Jul 04, 2023	Soil	S23-JI0012266	X				
65	EM-C BH1 0.1-0.3	Jul 05, 2023	Soil	S23-JI0012267	X				
66	EM-C BH1 0.8-1.5	Jul 05, 2023	Soil	S23-JI0012268	X				
Test Counts					19	12	5	5	7
					4	42	5	42	3
					3				

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour blue indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (% w/w)
F/fld	Airborne fibre filter loading as Fibres (N) per Fields counted (n)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (C)
g, kg	Mass, e.g. of whole sample (M) or asbestos-containing find within the sample (m)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM ($V = r \times t$)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (r)
min	Time (t), e.g. of air sample collection period

Calculations

$$\text{Airborne Fibre Concentration: } C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$$

$$\text{Asbestos Content (as asbestos): } \% w/w = \frac{(m \times P_A)}{M}$$

$$\text{Weighted Average (of asbestos): } \%_{WA} = \sum \frac{(m \times P_A)_x}{x}$$

Terms

%asbestos

Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 Appendix 2, else assumed to be 15% in accordance with WA DOH Appendix 2 (PA).

ACM

Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.

AF

Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".

AFM

Airborne Fibre Monitoring, e.g. by the MFM.

Amosite

Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.

AS

Australian Standard.

Asbestos Content (as asbestos)

Total % w/w asbestos content in asbestos-containing finds in a soil sample (% w/w).

Chrysotile

Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.

COC

Chain of Custody.

Crocidolite

Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.

Dry

Sample is dried by heating prior to analysis.

DS

Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.

FA

Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.

Fibre Count

Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003.

Fibre ID

Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.

Friable

Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.

HSG248

UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).

HSG264

UK HSE HSG264, *Asbestos: The Survey Guide* (2012).

ISO (also ISO/IEC)

International Organization for Standardization / International Electrotechnical Commission.

K Factor

Microscope constant (K) as derived from the effective filter area of the given AFM membrane used for collecting the sample (A) and the projected eyepiece graticule area of the specific microscope used for the analysis (a).

LOR

Limit of Reporting.

MFM (also NOHSC:3003)

Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].

NEPM (also ASC NEPM)

National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).

Organic

Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.

PCM

Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.

PLM

Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.

Sampling

Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.

SMF

Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.

SRA

Sample Receipt Advice.

Trace Analysis

Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.

UK HSE HSG

United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.

UMF

Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according to AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.

WA DOH

Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*.

Weighted Average

Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (%WA).

Comments**Sample Integrity**

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Chamath JHM Annakkage Senior Analyst-Asbestos

Authorised by:

Sayeed Abu Senior Analyst-Asbestos

**Glenn Jackson**
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Environment Testing

Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
 Level 18, Tower B, Citadel Tower 799 Pacific Highway
 Chatswood
 NSW 2067



NATA Accredited
 Accreditation Number 1261
 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Kelsie McGillen

Report 1005684-S
 Project name NORTHERN RIVERS
 Project ID SYDGE319200
 Received Date Jul 06, 2023

Client Sample ID			BROAD C-BH1 0.1-0.5	BROAD C-BH1 0.5-1.0	BROAD C-BH1 6.8-7.0	BROAD C-BH2 0.1-0.35
Sample Matrix		Soil	S23-JI0012203	S23-JI0012204	S23-JI0012205	Soil
Eurofins Sample No.			Jul 03, 2023	Jul 03, 2023	Jul 03, 2023	S23-JI0012206
Date Sampled	LOR	Unit				
Test/Reference						
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	83	75	-	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

Client Sample ID			BROAD C-BH1 0.1-0.5	BROAD C-BH1 0.5-1.0	BROAD C-BH1 6.8-7.0	BROAD C-BH2 0.1-0.35
Sample Matrix		Soil	S23-JI0012203	S23-JI0012204	S23-JI0012205	Soil
Date Sampled		Unit	Jul 03, 2023	Jul 03, 2023	Jul 03, 2023	Jul 03, 2023
Test/Reference	LOR					
Polycyclic Aromatic Hydrocarbons						
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	95	91	-	80
p-Terphenyl-d14 (surr.)	1	%	115	78	-	65
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	130	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	105	-	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlорfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-

Client Sample ID			BROAD C-BH1 0.1-0.5	BROAD C-BH1 0.5-1.0	BROAD C-BH1 6.8-7.0	BROAD C-BH2 0.1-0.35
Sample Matrix		Soil	S23-JI0012203	S23-JI0012204	S23-JI0012205	S23-JI0012206
Date Sampled		Unit	Jul 03, 2023	Jul 03, 2023	Jul 03, 2023	Jul 03, 2023
Test/Reference	LOR					
Organophosphorus Pesticides						
Dimethoate	0.2	mg/kg	< 0.2	-	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-	-
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Morphos	0.2	mg/kg	< 0.2	-	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	104	-	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	12	-	-	< 10
Total Organic Carbon	0.1	%	0.5	-	-	0.8
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	-	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	< 5	34	-	< 5
Copper	5	mg/kg	< 5	22	-	< 5
Iron	20	mg/kg	1700	-	-	2200
Lead	5	mg/kg	10	10	-	8.6
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	< 5	18	-	< 5
Zinc	5	mg/kg	15	51	-	18
Cation Exchange Capacity						
Cation Exchange Capacity*	0.5	meq/100g	2.8	-	-	2.2
Sample Properties						
% Moisture	1	%	11	24	-	9.2
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	-	-	6.4	-
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	-	-	3.3	-
Reaction Ratings* ^{S05}	0	-	-	-	1.0	-

Client Sample ID			BROAD C-BH2 0.35-0.8	BROAD C-BH2 6.8-7.0	BROAD E-BH1 0.1-0.4	BROAD E-BH1 0.4-1.0
Sample Matrix		Soil	S23-JI0012207	Soil	Soil	Soil
Eurofins Sample No.			S23-JI0012208	S23-JI0012209	S23-JI0012210	
Date Sampled			Jul 03, 2023	Jul 03, 2023	Jul 03, 2023	Jul 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	74	-	81	75
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	91	-	92	97
p-Terphenyl-d14 (surr.)	1	%	75	-	75	76

Client Sample ID			BROAD C-BH2 0.35-0.8	BROAD C-BH2 6.8-7.0	BROAD E-BH1 0.1-0.4	BROAD E-BH1 0.4-1.0
Sample Matrix		Soil	S23-JI0012207	Soil	Soil	Soil
Eurofins Sample No.			S23-JI0012208	S23-JI0012209	S23-JI0012210	
Date Sampled			Jul 03, 2023	Jul 03, 2023	Jul 03, 2023	Jul 03, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.0	-	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	37	-	11	35
Copper	5	mg/kg	14	-	6.2	13
Lead	5	mg/kg	10	-	13	9.0
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	17	-	9.0	12
Zinc	5	mg/kg	46	-	44	33
Sample Properties						
% Moisture	1	%	31	-	19	28
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	-	5.7	-	-
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	-	2.6	-	-
Reaction Ratings ^{*S05}	0	-	-	1.0	-	-

Client Sample ID			BR-SS1 Soil	BR-SS2 Soil	BR-SS3 Soil	BR-SS4 Soil
Sample Matrix			S23-JI0012211	S23-JI0012212	S23-JI0012213	S23-JI0012214
Eurofins Sample No.			Jul 03, 2023	Jul 03, 2023	Jul 03, 2023	Jul 03, 2023
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	80	90	90	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BR-SS1 Soil S23-JI0012211 Jul 03, 2023	BR-SS2 Soil S23-JI0012212 Jul 03, 2023	BR-SS3 Soil S23-JI0012213 Jul 03, 2023	BR-SS4 Soil S23-JI0012214 Jul 03, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled	LOR	Unit				
Test/Reference						
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	107	99	87	77
p-Terphenyl-d14 (surr.)	1	%	77	79	75	72
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	14	30
Copper	5	mg/kg	< 5	< 5	14	14
Lead	5	mg/kg	5.6	< 5	43	27
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	9.7	9.1
Zinc	5	mg/kg	13	11	82	48
Sample Properties						
% Moisture	1	%	19	10.0	18	17

Client Sample ID			BR-SS5 Soil S23-JI0012215 Jul 03, 2023	BR-SS6 Soil S23-JI0012216 Jul 03, 2023	DUP1 Soil S23-JI0012217 Jul 03, 2023	WA-SS1 Soil S23-JI0012220 Jul 04, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled	LOR	Unit				
Test/Reference						
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50

Client Sample ID			BR-SS5 Soil S23-JI0012215 Jul 03, 2023	BR-SS6 Soil S23-JI0012216 Jul 03, 2023	DUP1 Soil S23-JI0012217 Jul 03, 2023	WA-SS1 Soil S23-JI0012220 Jul 04, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	79	70	87	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	105	89	86	91
p-Terphenyl-d14 (surr.)	1	%	88	97	76	77
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4,4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4,4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4,4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID	LOR	Unit	BR-SS5 Soil S23-JI0012215 Jul 03, 2023	BR-SS6 Soil S23-JI0012216 Jul 03, 2023	DUP1 Soil S23-JI0012217 Jul 03, 2023	WA-SS1 Soil S23-JI0012220 Jul 04, 2023
Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorethane (surr.)	1	%	-	118	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	95	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-

Client Sample ID	LOR	Unit	BR-SS5 Soil S23-JI0012215 Jul 03, 2023	BR-SS6 Soil S23-JI0012216 Jul 03, 2023	DUP1 Soil S23-JI0012217 Jul 03, 2023	WA-SS1 Soil S23-JI0012220 Jul 04, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference						
Organophosphorus Pesticides						
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	-	96	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	< 10	-	-
Total Organic Carbon	0.1	%	-	1.0	-	-
Heavy Metals						
Arsenic	2	mg/kg	3.2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.1	< 5	< 5	6.3
Copper	5	mg/kg	7.2	< 5	< 5	11
Iron	20	mg/kg	-	5100	-	-
Lead	5	mg/kg	15	5.4	< 5	45
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	29	31	9.3	150
Cation Exchange Capacity						
Cation Exchange Capacity*	0.5	meq/100g	-	3.0	-	-
Sample Properties						
% Moisture	1	%	15	9.8	8.3	15

Client Sample ID	LOR	Unit	WA-SS2 Soil S23-JI0012221 Jul 04, 2023	WA-SS3 Soil S23-JI0012222 Jul 04, 2023	WA-SS4 Soil S23-JI0012223 Jul 04, 2023	WA-SS5 Soil S23-JI0012224 Jul 04, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference						
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	85	72	76	79

Client Sample ID			WA-SS2 Soil S23-JI0012221 Jul 04, 2023	WA-SS3 Soil S23-JI0012222 Jul 04, 2023	WA-SS4 Soil S23-JI0012223 Jul 04, 2023	WA-SS5 Soil S23-JI0012224 Jul 04, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled	LOR	Unit				
Test/Reference						
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	104	106	94	91
p-Terphenyl-d14 (surr.)	1	%	77	81	82	105
Heavy Metals						
Arsenic	2	mg/kg	2.5	11	4.4	< 2
Cadmium	0.4	mg/kg	0.5	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	18	15	23	< 5
Copper	5	mg/kg	26	29	37	5.3
Lead	5	mg/kg	670	49	130	14
Mercury	0.1	mg/kg	0.4	< 0.1	0.1	< 0.1
Nickel	5	mg/kg	9.0	< 5	13	< 5
Zinc	5	mg/kg	410	89	150	26
Sample Properties						
% Moisture	1	%	20	13	16	24

Client Sample ID			DUP2 Soil S23-JI0012225 Jul 04, 2023	DUP3 Soil S23-JI0012226 Jul 04, 2023	BROAD E-BH2 0.1-0.5 Soil S23-JI0012229	BROAD E-BH2 0.5-1.0 Soil S23-JI0012230 Jul 03, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled	LOR	Unit				
Test/Reference						
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	57	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	57	< 50	< 50

Client Sample ID			DUP2 Soil S23-JI0012225 Jul 04, 2023	DUP3 Soil S23-JI0012226 Jul 04, 2023	BROAD E-BH2 0.1-0.5 Soil S23-JI0012229 Jul 03, 2023	BROAD E-BH2 0.5-1.0 Soil S23-JI0012230 Jul 03, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	76	72	91	73
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	79	90	86	82
p-Terphenyl-d14 (surr.)	1	%	81	104	94	95
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	< 5	< 5	34
Copper	5	mg/kg	14	7.2	< 5	18
Lead	5	mg/kg	170	14	8.8	10
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.1	< 5	< 5	17
Zinc	5	mg/kg	93	44	22	49

Client Sample ID			DUP2	DUP3	BROAD E-BH2 0.1-0.5	BROAD E-BH2 0.5-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23-JI0012225	S23-JI0012226	S23-JI0012229	S23-JI0012230
Date Sampled			Jul 04, 2023	Jul 04, 2023	Jul 03, 2023	Jul 03, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	22	17	8.2	28

Client Sample ID			EM-SS1	EM-SS3	EM-SS4	EM-SS5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23-JI0012231	S23-JI0012232	S23-JI0012233	S23-JI0012234
Date Sampled			Jul 04, 2023	Jul 04, 2023	Jul 04, 2023	Jul 04, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	83	85	79	83
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&i)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			EM-SS1 Soil S23-JI0012231 Jul 04, 2023	EM-SS3 Soil S23-JI0012232 Jul 04, 2023	EM-SS4 Soil S23-JI0012233 Jul 04, 2023	EM-SS5 Soil S23-JI0012234 Jul 04, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled	LOR	Unit				
Test/Reference						
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	84	85	74	81
p-Terphenyl-d14 (surr.)	1	%	92	94	66	97
Heavy Metals						
Arsenic	2	mg/kg	3.6	< 2	6.7	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	6.7	< 5
Copper	5	mg/kg	12	< 5	5.6	< 5
Lead	5	mg/kg	14	17	16	14
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.2	< 5	< 5	< 5
Zinc	5	mg/kg	65	24	44	59
Sample Properties						
% Moisture	1	%	11	7.8	18	15

Client Sample ID			BL-SS1 Soil S23-JI0012235 Jul 04, 2023	BL-SS2 Soil S23-JI0012236 Jul 04, 2023	BL-SS3 Soil S23-JI0012237 Jul 04, 2023	BL-SS4 Soil S23-JI0012238 Jul 04, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled	LOR	Unit				
Test/Reference						
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	82	INT	71	86
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BL-SS1 Soil S23-JI0012235 Jul 04, 2023	BL-SS2 Soil S23-JI0012236 Jul 04, 2023	BL-SS3 Soil S23-JI0012237 Jul 04, 2023	BL-SS4 Soil S23-JI0012238 Jul 04, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled	LOR	Unit				
Test/Reference						
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	86	94	86	89
p-Terphenyl-d14 (surr.)	1	%	94	95	94	95
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	2.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.4
Chromium	5	mg/kg	29	33	9.0	52
Copper	5	mg/kg	20	17	< 5	72
Lead	5	mg/kg	41	25	< 5	310
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	22	18	< 5	23
Zinc	5	mg/kg	86	110	43	340
Sample Properties						
% Moisture	1	%	23	23	11	23

Client Sample ID			WA-C BH1 0-0.1 Soil S23-JI0012239 Jul 04, 2023	WA-C BH1 0.1-0.3 Soil S23-JI0012240 Jul 04, 2023	WA-C BH1 1.0-1.25 Soil S23-JI0012242 Jul 04, 2023	WA-C BH2 0-0.1 Soil S23-JI0012243 Jul 04, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled	LOR	Unit				
Test/Reference						
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			WA-C BH1 0-0.1	WA-C BH1 0.1-0.3	WA-C BH1 1.0-1.25	WA-C BH2 0-0.1
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Eurofins Sample No.		S23-JI0012239	S23-JI0012240	S23-JI0012242	S23-JI0012243	
Date Sampled		Jul 04, 2023	Jul 04, 2023	Jul 04, 2023	Jul 04, 2023	Jul 04, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	52	72	86	87
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	107	99	91	110
p-Terphenyl-d14 (surr.)	1	%	90	97	97	92
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	28	12	8.5
Copper	5	mg/kg	53	15	< 5	7.4
Lead	5	mg/kg	87	33	< 5	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.6	13	< 5	< 5
Zinc	5	mg/kg	88	59	16	39
Sample Properties						
% Moisture	1	%	27	24	10	17

Client Sample ID			WA-C BH1 0-0.1	WA-C BH1 0.1-0.3	WA-C BH1 1.0-1.25	WA-C BH2 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23-JI0012239	S23-JI0012240	S23-JI0012242	S23-JI0012243
Date Sampled			Jul 04, 2023	Jul 04, 2023	Jul 04, 2023	Jul 04, 2023
Test/Reference	LOR	Unit				
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	-	-	5.7	-
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	-	-	3.9	-
Reaction Ratings* ^{S05}	0	-	-	-	1.0	-

Client Sample ID			WA-C BH2 0.1-0.3	WA-C BH2 1.5-1.9	WA-E BH1 0.1-0.5	WA-E BH1 1.0-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23-JI0012244	S23-JI0012245	S23-JI0012246	S23-JI0012247
Date Sampled			Jul 04, 2023	Jul 04, 2023	Jul 04, 2023	Jul 04, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	61	-	76	77
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			WA-C BH2 0.1-0.3 Soil S23-JI0012244 Jul 04, 2023	WA-C BH2 1.5-1.9 Soil S23-JI0012245 Jul 04, 2023	WA-E BH1 0.1-0.5 Soil S23-JI0012246 Jul 04, 2023	WA-E BH1 1.0-1.5 Soil S23-JI0012247 Jul 04, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	95	-	110	108
p-Terphenyl-d14 (surr.)	1	%	116	-	100	97
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorethane (surr.)	1	%	133	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	104	-	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-	-

Client Sample ID			WA-C BH2 0.1-0.3	WA-C BH2 1.5-1.9	WA-E BH1 0.1-0.5	WA-E BH1 1.0-1.5
Sample Matrix		Soil	S23-JI0012244	Soil	Soil	Soil
Eurofins Sample No.			S23-JI0012245	S23-JI0012246	S23-JI0012247	
Date Sampled			Jul 04, 2023	Jul 04, 2023	Jul 04, 2023	Jul 04, 2023
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Mephos	0.2	mg/kg	< 0.2	-	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	104	-	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	< 10	-	-	-
Total Organic Carbon	0.1	%	1.1	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	3.1	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	-	17	6.5
Copper	5	mg/kg	5.5	-	130	< 5
Iron	20	mg/kg	5200	-	-	-
Lead	5	mg/kg	8.4	-	360	< 5
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	-	12	< 5
Zinc	5	mg/kg	11	-	150	7.0
Cation Exchange Capacity						
Cation Exchange Capacity*	0.5	meq/100g	3.5	-	-	-
Sample Properties						
% Moisture	1	%	10	-	17	11
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	-	5.6	-	6.1
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	-	4.2	-	4.0
Reaction Ratings* ^{S05}	0	-	-	1.0	-	1.0

Client Sample ID			WA-E BH2 0.1-0.4 Soil S23-JI0012248 Jul 04, 2023	WA-E BH2 0.4-0.8 Soil S23-JI0012249 Jul 04, 2023	WA-E BH2 0.8-1.5 Soil S23-JI0012250 Jul 04, 2023	DUP4 Soil S23-JI0012251 Jul 05, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled	LOR	Unit				
Test/Reference						
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	77	78	-	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	89	92	-	93
p-Terphenyl-d14 (surr.)	1	%	92	83	-	80

Client Sample ID			WA-E BH2 0.1-0.4	WA-E BH2 0.4-0.8	WA-E BH2 0.8-1.5	DUP4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23-JI0012248	S23-JI0012249	S23-JI0012250	S23-JI0012251
Date Sampled			Jul 04, 2023	Jul 04, 2023	Jul 04, 2023	Jul 05, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	-	4.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	9.3	22	-	< 5
Copper	5	mg/kg	8.0	7.5	-	16
Lead	5	mg/kg	14	5.8	-	8.1
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	5.7	9.8	-	6.1
Zinc	5	mg/kg	27	26	-	66
Sample Properties						
% Moisture	1	%	13	15	-	6.3
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	-	-	6.5	-
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	-	-	4.3	-
Reaction Ratings ^{*S05}	0	-	-	-	1.0	-

Client Sample ID			EM-C BH1 0-0.1	EM-C BH1 0.3-0.8	EMC BH1 1.25-1.5
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S23-JI0012252	S23-JI0012253	S23-JI0012256
Date Sampled			Jul 05, 2023	Jul 05, 2023	Jul 05, 2023
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-
TRH C6-C10	20	mg/kg	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-
BTEX					
Benzene	0.1	mg/kg	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	54	76	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-

Client Sample ID			EM-C BH1 0-0.1 Soil S23-JI0012252 Jul 05, 2023	EM-C BH1 0.3-0.8 Soil S23-JI0012253 Jul 05, 2023	EMC BH1 1.25-1.5 Soil S23-JI0012256 Jul 05, 2023
Sample Matrix					
Eurofins Sample No.					
Date Sampled	LOR	Unit			
Test/Reference					
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	83	92	-
p-Terphenyl-d14 (surr.)	1	%	INT	81	-
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	78	-	-
Tetrachloro-m-xylene (surr.)	1	%	55	-	-

Client Sample ID			EM-C BH1 0-0.1	EM-C BH1 0.3-0.8	EMC BH1 1.25-1.5
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S23-JI0012252	S23-JI0012253	S23-JI0012256
Date Sampled			Jul 05, 2023	Jul 05, 2023	Jul 05, 2023
Test/Reference	LOR	Unit			
Organophosphorus Pesticides					
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-
Coumaphos	2	mg/kg	< 2	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-
EPN	0.2	mg/kg	< 0.2	-	-
Ethion	0.2	mg/kg	< 0.2	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-
Malathion	0.2	mg/kg	< 0.2	-	-
Merphos	0.2	mg/kg	< 0.2	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-
Monocrotophos	2	mg/kg	< 2	-	-
Naled	0.2	mg/kg	< 0.2	-	-
Omethoate	2	mg/kg	< 2	-	-
Phorate	0.2	mg/kg	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	INT	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	10	-	-
Total Organic Carbon	0.1	%	< 0.1	-	-
Heavy Metals					
Arsenic	2	mg/kg	4.5	2.2	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-
Chromium	5	mg/kg	< 5	38	-
Copper	5	mg/kg	18	10	-
Iron	20	mg/kg	26000	-	-
Lead	5	mg/kg	7.4	9.1	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-
Nickel	5	mg/kg	5.2	18	-
Zinc	5	mg/kg	77	57	-
Cation Exchange Capacity					
Cation Exchange Capacity*	0.5	meq/100g	9.2	-	-

Client Sample ID			EM-C BH1 0-0.1	EM-C BH1 0.3-0.8	EMC BH1 1.25-1.5
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S23-JI0012252	S23-JI0012253	S23-JI0012256
Date Sampled			Jul 05, 2023	Jul 05, 2023	Jul 05, 2023
Test/Reference	LOR	Unit			
Sample Properties					
% Moisture	1	%	6.3	23	-
Acid Sulfate Soils Field pH Test					
pH-F (Field pH test)*	0.1	pH Units	-	-	7.2
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	-	-	6.1
Reaction Ratings* ^{S05}	0	-	-	-	1.0

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jul 13, 2023	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jul 13, 2023	14 Days
BTEX - Method: LTM-ORG-2010 BTEX and Volatile TRH	Sydney	Jul 13, 2023	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jul 13, 2023	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Jul 17, 2023	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Jul 13, 2023	28 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Jul 13, 2023	14 Days
Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS	Sydney	Jul 13, 2023	14 Days
Conductivity (1:5 aqueous extract at 25 °C as rec.) - Method: LTM-INO-4030 Conductivity	Sydney	Jul 13, 2023	7 Days
Cation Exchange Capacity - Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage	Melbourne	Jul 15, 2023	28 Days
Total Organic Carbon - Method: LTM-INO-4060 Total Organic Carbon in water and soil	Melbourne	Jul 15, 2023	28 Days
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Jul 13, 2023	28 Days
Acid Sulfate Soils Field pH Test - Method: LTM-GEN-7060 Determination of field pH (pHF) and field pH peroxide (pHFOX) tests	Sydney	Jul 13, 2023	7 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Jul 07, 2023	14 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Project Name: NORTHERN RIVERS
Project ID: SYDGE319200

Order No.:
Report #: 1005684
Phone: +61 2 9406 1000
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Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254

Sydney Laboratory - NATA # 1261 Site # 18217

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID														
1	BROAD C-BH1 0.1-0.5	Jul 03, 2023		Soil	S23-JI0012203		X	X		X	X	X	X						
2	BROAD C-BH1 0.5-1.0	Jul 03, 2023		Soil	S23-JI0012204						X		X						
3	BROAD C-BH1 6.8-7.0	Jul 03, 2023		Soil	S23-JI0012205				X										
4	BROAD C-BH2 0.1-0.35	Jul 03, 2023		Soil	S23-JI0012206			X	X			X	X	X					
5	BROAD C-BH2 0.35-0.8	Jul 03, 2023		Soil	S23-JI0012207							X		X					
6	BROAD C-BH2 6.8-7.0	Jul 03, 2023		Soil	S23-JI0012208					X									
7	BROAD E-BH1 0.1-0.4	Jul 03, 2023		Soil	S23-JI0012209							X		X					



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Project ID: SYDGE319200

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Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254							X			X	X		
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X		X	X	X	X	X	X
8	BROAD E-BH1 0.4-1.0	Jul 03, 2023		Soil	S23-JI0012210					X			
9	BR-SS1	Jul 03, 2023		Soil	S23-JI0012211					X		X	
10	BR-SS2	Jul 03, 2023		Soil	S23-JI0012212					X		X	
11	BR-SS3	Jul 03, 2023		Soil	S23-JI0012213					X		X	
12	BR-SS4	Jul 03, 2023		Soil	S23-JI0012214					X		X	
13	BR-SS5	Jul 03, 2023		Soil	S23-JI0012215	X				X		X	
14	BR-SS6	Jul 03, 2023		Soil	S23-JI0012216	X		X	X	X	X		
15	DUP1	Jul 03, 2023		Soil	S23-JI0012217					X		X	
16	TS	Jul 03, 2023		Trip Spike (liquid)	S23-JI0012218								X
17	TB	Jul 03, 2023		Trip Blank (liquid)	S23-JI0012219							X	
18	WA-SS1	Jul 04, 2023		Soil	S23-JI0012220	X				X		X	
19	WA-SS2	Jul 04, 2023		Soil	S23-JI0012221	X				X		X	
20	WA-SS3	Jul 04, 2023		Soil	S23-JI0012222					X		X	



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Project Name: NORTHERN RIVERS
Project ID: SYDGE319200

Order No.:
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Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254							X			X	X		
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X		X	X	X	X	X	X
21	WA-SS4	Jul 04, 2023		Soil	S23-JI0012223	X				X			
22	WA-SS5	Jul 04, 2023		Soil	S23-JI0012224	X				X		X	
23	DUP2	Jul 04, 2023		Soil	S23-JI0012225					X		X	
24	DUP3	Jul 04, 2023		Soil	S23-JI0012226					X		X	
25	TS	Jul 04, 2023		Trip Spike (liquid)	S23-JI0012227								X
26	TB	Jul 04, 2023		Trip Blank (liquid)	S23-JI0012228							X	
27	BROAD E-BH2 0.1-0.5	Jul 03, 2023		Soil	S23-JI0012229					X		X	
28	BROAD E-BH2 0.5-1.0	Jul 03, 2023		Soil	S23-JI0012230					X		X	
29	EM-SS1	Jul 04, 2023		Soil	S23-JI0012231	X				X		X	
30	EM-SS3	Jul 04, 2023		Soil	S23-JI0012232	X				X		X	
31	EM-SS4	Jul 04, 2023		Soil	S23-JI0012233	X				X		X	
32	EM-SS5	Jul 04, 2023		Soil	S23-JI0012234	X				X		X	



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Project Name: NORTHERN RIVERS
Project ID: SYDGE319200

Order No.:
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Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X	
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X	X	X
33	BL-SS1	Jul 04, 2023	Soil	S23-JI0012235	X			X	
34	BL-SS2	Jul 04, 2023	Soil	S23-JI0012236	X			X	
35	BL-SS3	Jul 04, 2023	Soil	S23-JI0012237	X			X	
36	BL-SS4	Jul 04, 2023	Soil	S23-JI0012238	X			X	
37	WA-C BH1 0-0.1	Jul 04, 2023	Soil	S23-JI0012239				X	
38	WA-C BH1 0.1-0.3	Jul 04, 2023	Soil	S23-JI0012240				X	
39	WA-C BH1 0.3-0.8	Jul 04, 2023	Soil	S23-JI0012241	X				
40	WA-C BH1 1.0-1.25	Jul 04, 2023	Soil	S23-JI0012242				X	
41	WA-C BH2 0-0.1	Jul 04, 2023	Soil	S23-JI0012243				X	
42	WA-C BH2 0.1-0.3	Jul 04, 2023	Soil	S23-JI0012244	X	X	X	X	
43	WA-C BH2	Jul 04, 2023	Soil	S23-JI0012245			X		



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Fax: +61 2 9406 1002

Received: Jul 6, 2023 9:30 AM
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Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
43	WA-C BH2 1.5-1.9	Jul 04, 2023		Soil	S23-JI0012245						
44	WA-E BH1 0.1-0.5	Jul 04, 2023		Soil	S23-JI0012246	X			X		
45	WA-E BH1 1.0-1.5	Jul 04, 2023		Soil	S23-JI0012247			X		X	
46	WA-E BH2 0.1-0.4	Jul 04, 2023		Soil	S23-JI0012248				X		X
47	WA-E BH2 0.4-0.8	Jul 04, 2023		Soil	S23-JI0012249	X			X		X
48	WA-E BH2 0.8-1.5	Jul 04, 2023		Soil	S23-JI0012250			X			
49	DUP4	Jul 05, 2023		Soil	S23-JI0012251				X		X
50	EM-C BH1 0-0.1	Jul 05, 2023		Soil	S23-JI0012252	X		X	X	X	
51	EM-C BH1 0.3-0.8	Jul 05, 2023		Soil	S23-JI0012253				X		X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175	19/8 Lewalan Street Grovedale VIC 3216	179 Magowar Road Girraween NSW 2145	Unit 1,2 Dacre Street Mitchell ACT 2911	1/21 Smallwood Place Murarrie QLD 4172	1/2 Frost Drive Mayfield West NSW 2304
Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	NATA# 1261 Site# 25079 & 25289

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Company Name: Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
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Chatswood
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Project Name: NORTHERN RIVERS
Project ID: SYDGE319200

Order No.:
Report #: 1005684
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254

Sydney Laboratory - NATA # 1261 Site # 18217

				X			X	X		
52	TS	Jul 05, 2023		Trip Spike (liquid)	S23-JI0012254					X
53	TB	Jul 05, 2023		Trip Blank (liquid)	S23-JI0012255					X
54	EMC BH1 1.25-1.5	Jul 05, 2023		Soil	S23-JI0012256		X			
55	BROAD C-BH1 0-0.1	Jul 03, 2023		Soil	S23-JI0012257	X				
56	BROAD C-BH2 0-0.1	Jul 03, 2023		Soil	S23-JI0012258	X				
57	BROAD E-BH1 0-0.1	Jul 03, 2023		Soil	S23-JI0012259	X				
58	BROAD E-BH2 0-0.1	Jul 03, 2023		Soil	S23-JI0012260	X				
59	EM-SS2	Jul 04, 2023		Soil	S23-JI0012261	X				
60	BL-SS5	Jul 04, 2023		Soil	S23-JI0012262	X				
61	WA-C BH2	Jul 04, 2023		Soil	S23-JI0012263	X				



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Eurofins Environment Testing Australia Pty Ltd

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Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X	
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X	X	X
0.3-0.8									
62	WA-E BH1 0-0.1	Jul 04, 2023	Soil	S23-JI0012264	X				
63	WA-E BH1 0.5-1.0	Jul 04, 2023	Soil	S23-JI0012265	X				
64	WA-E BH2 0-0.1	Jul 04, 2023	Soil	S23-JI0012266	X				
65	EM-C BH1 0.1-0.3	Jul 05, 2023	Soil	S23-JI0012267	X				
66	EM-C BH1 0.8-1.5	Jul 05, 2023	Soil	S23-JI0012268	X				
Test Counts					19	12	5	5	7
					4	42	5	42	3
									3

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

µg/L: micrograms per litre

ppm: parts per million

ppb: parts per billion

%: Percentage

org/100 mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100 mL: Most Probable Number of organisms per 100 millilitres

CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTG	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxic Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	µS/cm	< 10			10	Pass	
Total Organic Carbon	%	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	87			70-130	Pass	
TRH C10-C14	%	71			70-130	Pass	
TRH C6-C10	%	87			70-130	Pass	
TRH >C10-C16	%	71			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	95			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
m&p-Xylenes	%	95			70-130	Pass	
o-Xylene	%	93			70-130	Pass	
Xylenes - Total*	%	95			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	85			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	78			70-130	Pass	
Acenaphthylene	%	80			70-130	Pass	
Anthracene	%	86			70-130	Pass	
Benz(a)anthracene	%	97			70-130	Pass	
Benzo(a)pyrene	%	74			70-130	Pass	
Benzo(b&j)fluoranthene	%	105			70-130	Pass	
Benzo(g.h.i)perylene	%	72			70-130	Pass	
Benzo(k)fluoranthene	%	86			70-130	Pass	
Chrysene	%	77			70-130	Pass	
Dibenz(a.h)anthracene	%	100			70-130	Pass	
Fluoranthene	%	76			70-130	Pass	
Fluorene	%	81			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	96			70-130	Pass	
Naphthalene	%	83			70-130	Pass	
Phenanthrene	%	77			70-130	Pass	
Pyrene	%	78			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	103			70-130	Pass	
4,4'-DDD	%	105			70-130	Pass	
4,4'-DDE	%	105			70-130	Pass	
4,4'-DDT	%	79			70-130	Pass	
a-HCH	%	103			70-130	Pass	
Aldrin	%	109			70-130	Pass	
b-HCH	%	93			70-130	Pass	
d-HCH	%	99			70-130	Pass	
Dieldrin	%	96			70-130	Pass	
Endosulfan I	%	102			70-130	Pass	
Endosulfan II	%	120			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code		
Endosulfan sulphate	%	101			70-130	Pass			
Endrin	%	84			70-130	Pass			
Endrin aldehyde	%	111			70-130	Pass			
Endrin ketone	%	103			70-130	Pass			
g-HCH (Lindane)	%	108			70-130	Pass			
Heptachlor	%	96			70-130	Pass			
Heptachlor epoxide	%	96			70-130	Pass			
Hexachlorobenzene	%	103			70-130	Pass			
Methoxychlor	%	77			70-130	Pass			
LCS - % Recovery									
Organophosphorus Pesticides									
Diazinon	%	96			70-130	Pass			
Dimethoate	%	97			70-130	Pass			
Ethion	%	87			70-130	Pass			
Fenitrothion	%	78			70-130	Pass			
Methyl parathion	%	79			70-130	Pass			
Mevinphos	%	77			70-130	Pass			
LCS - % Recovery									
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	96			70-130	Pass			
LCS - % Recovery									
Heavy Metals									
Arsenic	%	100			80-120	Pass			
Cadmium	%	104			80-120	Pass			
Chromium	%	104			80-120	Pass			
Copper	%	105			80-120	Pass			
Iron	%	106			80-120	Pass			
Lead	%	104			80-120	Pass			
Mercury	%	102			80-120	Pass			
Nickel	%	104			80-120	Pass			
Zinc	%	105			80-120	Pass			
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S23-JI0020913	NCP	%	84			70-130	Pass	
TRH >C10-C16	S23-JI0020913	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S23-JI0018194	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S23-JI0020073	NCP	%	92			70-130	Pass	
4,4'-DDD	S23-JI0020073	NCP	%	101			70-130	Pass	
4,4'-DDE	S23-JI0020073	NCP	%	90			70-130	Pass	
4,4'-DDT	S23-JI0020073	NCP	%	73			70-130	Pass	
a-HCH	S23-JI0020073	NCP	%	91			70-130	Pass	
Aldrin	S23-JI0020073	NCP	%	91			70-130	Pass	
b-HCH	S23-JI0020073	NCP	%	80			70-130	Pass	
d-HCH	S23-JI0020073	NCP	%	84			70-130	Pass	
Dieldrin	S23-JI0020073	NCP	%	88			70-130	Pass	
Endosulfan I	S23-JI0020073	NCP	%	93			70-130	Pass	
Endosulfan II	S23-JI0020073	NCP	%	110			70-130	Pass	
Endosulfan sulphate	S23-JI0020073	NCP	%	89			70-130	Pass	
Endrin	S23-JI0020073	NCP	%	81			70-130	Pass	
Endrin aldehyde	S23-JI0020073	NCP	%	91			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	S23-JI0020073	NCP	%	93			70-130	Pass	
g-HCH (Lindane)	S23-JI0020073	NCP	%	96			70-130	Pass	
Heptachlor	S23-JI0020073	NCP	%	86			70-130	Pass	
Heptachlor epoxide	S23-JI0020073	NCP	%	87			70-130	Pass	
Hexachlorobenzene	S23-JI0020073	NCP	%	88			70-130	Pass	
Methoxychlor	S23-JI0020073	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Dimethoate	S23-JI0004748	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S23-JI0012204	CP	%	86			75-125	Pass	
Cadmium	S23-JI0012204	CP	%	106			75-125	Pass	
Chromium	S23-JI0012204	CP	%	99			75-125	Pass	
Copper	S23-JI0012204	CP	%	101			75-125	Pass	
Lead	S23-JI0012204	CP	%	99			75-125	Pass	
Mercury	S23-JI0012204	CP	%	102			75-125	Pass	
Nickel	S23-JI0012204	CP	%	102			75-125	Pass	
Zinc	S23-JI0012204	CP	%	99			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S23-JI0012216	CP	%	76			70-130	Pass	
TRH C6-C10	S23-JI0012216	CP	%	73			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S23-JI0012216	CP	%	79			70-130	Pass	
Toluene	S23-JI0012216	CP	%	77			70-130	Pass	
Ethylbenzene	S23-JI0012216	CP	%	82			70-130	Pass	
m&p-Xylenes	S23-JI0012216	CP	%	79			70-130	Pass	
o-Xylene	S23-JI0012216	CP	%	78			70-130	Pass	
Xylenes - Total*	S23-JI0012216	CP	%	79			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S23-JI0012216	CP	%	115			70-130	Pass	
Ethion	S23-JI0012216	CP	%	114			70-130	Pass	
Fenitrothion	S23-JI0012216	CP	%	78			70-130	Pass	
Methyl parathion	S23-JI0012216	CP	%	75			70-130	Pass	
Mevinphos	S23-JI0012216	CP	%	89			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Iron	S23-JI0012252	CP	%	102			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Cadmium	S23-JI0012253	CP	%	80			75-125	Pass	
Copper	S23-JI0012253	CP	%	79			75-125	Pass	
Lead	S23-JI0012253	CP	%	79			75-125	Pass	
Mercury	S23-JI0012253	CP	%	92			75-125	Pass	
Nickel	S23-JI0012253	CP	%	75			75-125	Pass	
Zinc	S23-JI0012253	CP	%	79			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S23-JI0012203	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	S23-JI0012203	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate								
BTEX								
Benzene	S23-JI0012203	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S23-JI0012203	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S23-JI0012203	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S23-JI0012203	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S23-JI0012203	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	S23-JI0012203	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S23-JI0012203	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S23-JI0019458	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S23-JI0015023	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aldrin	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S23-JI0015023	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Heptachlor	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S23-JI0019458	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S23-JI0019458	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Azinphos-methyl	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorfenvinphos	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	S23-JI0019458	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dichlorvos	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethoprop	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfothion	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Malathion	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Merphos	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	S23-JI0019458	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	S23-JI0019458	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	S23-JI0019458	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Conductivity (1:5 aqueous extract at 25 °C as rec.)	S23-JI0016844	NCP	uS/cm	11	12	12	30%	Pass
Total Organic Carbon	S23-JI0012203	CP	%	0.5	0.5	3.5	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S23-JI0012203	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S23-JI0012203	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S23-JI0012203	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S23-JI0012203	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	S23-JI0012203	CP	mg/kg	10	9.1	9.5	30%	Pass
Mercury	S23-JI0012203	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S23-JI0012203	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S23-JI0012203	CP	mg/kg	15	20	27	30%	Pass
Duplicate								
Acid Sulfate Soils Field pH Test				Result 1	Result 2	RPD		
pH-F (Field pH test)*	W23-JI0006932	NCP	pH Units	6.5	6.4	pass	20%	Pass
pH-FOX (Field pH Peroxide test)*	W23-JI0006932	NCP	pH Units	3.2	3.2	pass	0%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S23-JI0012214	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S23-JI0012214	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S23-JI0012214	CP	mg/kg	30	27	10	30%	Pass
Copper	S23-JI0012214	CP	mg/kg	14	22	43	30%	Fail
Iron	S23-JI0012214	CP	mg/kg	18000	26000	36	30%	Fail
Lead	S23-JI0012214	CP	mg/kg	27	39	34	30%	Fail
Mercury	S23-JI0012214	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S23-JI0012214	CP	mg/kg	9.1	13	36	30%	Fail
Zinc	S23-JI0012214	CP	mg/kg	48	66	30	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	S23-JI0012215	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C10-C14	S23-JI0012215	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S23-JI0012215	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S23-JI0012215	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C6-C10	S23-JI0012215	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH >C10-C16	S23-JI0012215	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S23-JI0012215	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S23-JI0012215	CP	mg/kg	< 100	< 100	<1	30%	Pass

Duplicate								
BTEX								
Benzene	S23-JI0012215	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S23-JI0012215	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S23-JI0012215	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S23-JI0012215	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S23-JI0012215	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	S23-JI0012215	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S23-JI0012215	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S23-JI0012215	CP	mg/kg	3.2	< 2	53	30%	Fail Q15
Cadmium	S23-JI0012215	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S23-JI0012215	CP	mg/kg	7.1	5.8	20	30%	Pass
Copper	S23-JI0012215	CP	mg/kg	7.2	6.5	10	30%	Pass
Lead	S23-JI0012215	CP	mg/kg	15	12	21	30%	Pass
Mercury	S23-JI0012215	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S23-JI0012215	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S23-JI0012215	CP	mg/kg	29	24	18	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	S23-JI0012215	CP	%	15	15	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	S23-JI0012229	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C10-C14	S23-JI0012229	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S23-JI0012229	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S23-JI0012229	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C6-C10	S23-JI0012229	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH >C10-C16	S23-JI0012229	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S23-JI0012229	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S23-JI0012229	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S23-JI0012229	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S23-JI0012229	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S23-JI0012229	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S23-JI0012229	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S23-JI0012229	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	S23-JI0012229	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S23-JI0012229	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S23-JI0012229	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S23-JI0012229	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S23-JI0012229	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S23-JI0012229	CP	mg/kg	< 5	< 5	<1	30%	Pass
Iron	S23-JI0012229	CP	mg/kg	2200	1700	23	30%	Pass
Lead	S23-JI0012229	CP	mg/kg	8.8	7.2	19	30%	Pass
Mercury	S23-JI0012229	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S23-JI0012229	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S23-JI0012229	CP	mg/kg	22	19	16	30%	Pass

Duplicate							
Sample Properties				Result 1	Result 2	RPD	
% Moisture	S23-JI0012229	CP	%	8.2	11	26	30% Pass
Duplicate							
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD	
TRH C10-C14	S23-JI0012239	CP	mg/kg	< 20	< 20	<1	30% Pass
TRH C15-C28	S23-JI0012239	CP	mg/kg	< 50	< 50	<1	30% Pass
TRH C29-C36	S23-JI0012239	CP	mg/kg	< 50	< 50	<1	30% Pass
TRH >C10-C16	S23-JI0012239	CP	mg/kg	< 50	< 50	<1	30% Pass
TRH >C16-C34	S23-JI0012239	CP	mg/kg	< 100	< 100	<1	30% Pass
TRH >C34-C40	S23-JI0012239	CP	mg/kg	< 100	< 100	<1	30% Pass
Duplicate							
Heavy Metals				Result 1	Result 2	RPD	
Arsenic	S23-JI0012239	CP	mg/kg	< 2	< 2	<1	30% Pass
Cadmium	S23-JI0012239	CP	mg/kg	< 0.4	< 0.4	<1	30% Pass
Chromium	S23-JI0012239	CP	mg/kg	14	14	3.6	30% Pass
Copper	S23-JI0012239	CP	mg/kg	53	46	13	30% Pass
Iron	S23-JI0012239	CP	mg/kg	14000	14000	2.4	30% Pass
Lead	S23-JI0012239	CP	mg/kg	87	95	8.7	30% Pass
Mercury	S23-JI0012239	CP	mg/kg	< 0.1	< 0.1	<1	30% Pass
Nickel	S23-JI0012239	CP	mg/kg	7.6	7.1	8.0	30% Pass
Zinc	S23-JI0012239	CP	mg/kg	88	89	<1	30% Pass
Duplicate							
Sample Properties				Result 1	Result 2	RPD	
% Moisture	S23-JI0012239	CP	%	27	28	6.2	30% Pass
Duplicate							
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD	
TRH C10-C14	S23-JI0012246	CP	mg/kg	< 20	< 20	<1	30% Pass
TRH C15-C28	S23-JI0012246	CP	mg/kg	< 50	< 50	<1	30% Pass
TRH C29-C36	S23-JI0012246	CP	mg/kg	< 50	< 50	<1	30% Pass
TRH >C10-C16	S23-JI0012246	CP	mg/kg	< 50	< 50	<1	30% Pass
TRH >C16-C34	S23-JI0012246	CP	mg/kg	< 100	< 100	<1	30% Pass
TRH >C34-C40	S23-JI0012246	CP	mg/kg	< 100	< 100	<1	30% Pass
Duplicate							
Heavy Metals				Result 1	Result 2	RPD	
Arsenic	S23-JI0012249	CP	mg/kg	< 2	< 2	<1	30% Pass
Cadmium	S23-JI0012249	CP	mg/kg	< 0.4	< 0.4	<1	30% Pass
Chromium	S23-JI0012249	CP	mg/kg	22	25	12	30% Pass
Copper	S23-JI0012249	CP	mg/kg	7.5	8.1	8.2	30% Pass
Iron	S23-JI0012249	CP	mg/kg	14000	17000	19	30% Pass
Lead	S23-JI0012249	CP	mg/kg	5.8	6.0	4.2	30% Pass
Mercury	S23-JI0012249	CP	mg/kg	< 0.1	< 0.1	<1	30% Pass
Nickel	S23-JI0012249	CP	mg/kg	9.8	12	17	30% Pass
Zinc	S23-JI0012249	CP	mg/kg	26	32	20	30% Pass
Duplicate							
Sample Properties				Result 1	Result 2	RPD	
% Moisture	S23-JI0012252	CP	%	6.3	6.2	1.3	30% Pass

Comments**Sample Integrity**

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q02	The duplicate %RPD is outside the recommended acceptance criteria. Further analysis indicates sample heterogeneity as the cause
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.
S05	Field Screen uses the following fizz rating to classify the rate the samples reacted to the peroxide: 1.0; No reaction to slight. 2.0; Moderate reaction. 3.0; Strong reaction with persistent froth. 4.0; Extreme reaction.

Authorised by:

Asim Khan	Analytical Services Manager
Caitlin Breeze	Senior Analyst-Inorganic
Caitlin Breeze	Senior Analyst-Metal
Fang Yee Tan	Senior Analyst-Metal
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Volatile
Ryan Phillips	Senior Analyst-Inorganic
Sayeed Abu	Senior Analyst-Asbestos



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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Environment Testing

Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Kelsie McGillen

Report 1005684-W
Project name NORTHERN RIVERS
Project ID SYDGE319200
Received Date Jul 06, 2023

Client Sample ID			TS Trip Spike (liquid) S23-JI0012218	TB Trip Blank (liquid) S23-JI0012219	TS Trip Spike (liquid) S23-JI0012227	TB Trip Blank (liquid) S23-JI0012228
Sample Matrix	LOR	Unit	Jul 03, 2023	Jul 03, 2023	Jul 04, 2023	Jul 04, 2023
TRH C6-C10	1	%	75	-	72	-
Naphthalene ^{N02}	0.01	mg/L	-	< 0.01	-	< 0.01
Total Recoverable Hydrocarbons						
Naphthalene	1	%	87	-	87	-
TRH C6-C9	1	%	75	-	72	-
BTEX						
Benzene	1	%	110	-	120	-
Ethylbenzene	1	%	97	-	95	-
m&p-Xylenes	1	%	97	-	98	-
o-Xylene	1	%	95	-	94	-
Toluene	1	%	87	-	87	-
Xylenes - Total	1	%	96	-	96	-
4-Bromofluorobenzene (surr.)	1	%	97	-	96	-
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	-	< 0.02	-	< 0.02
TRH C6-C10	0.02	mg/L	-	< 0.02	-	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	-	< 0.02	-	< 0.02
BTEX						
Benzene	0.001	mg/L	-	< 0.001	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	89	-	85

Client Sample ID			TS Trip Spike (liquid)	TB Trip Blank (liquid)
Sample Matrix			S23-JI0012254	S23-JI0012255
Eurofins Sample No.				
Date Sampled			Jul 05, 2023	Jul 05, 2023
Test/Reference	LOR	Unit		
TRH C6-C10	1	%	72	-
Naphthalene ^{N02}	0.01	mg/L	-	< 0.01
Total Recoverable Hydrocarbons				
Naphthalene	1	%	75	-
TRH C6-C9	1	%	72	-
BTEX				
Benzene	1	%	89	-
Ethylbenzene	1	%	84	-
m&p-Xylenes	1	%	87	-
o-Xylene	1	%	84	-
Toluene	1	%	77	-
Xylenes - Total	1	%	85	-
4-Bromofluorobenzene (surr.)	1	%	91	-
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	-	< 0.02
TRH C6-C10	0.02	mg/L	-	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	-	< 0.02
BTEX				
Benzene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	91

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jul 07, 2023	7 Days
Total Recoverable Hydrocarbons - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jul 07, 2023	7 Days
BTEX - Method: LTM-ORG-2010 BTEX and Volatile TRH	Sydney	Jul 07, 2023	14 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road Dandenong South VIC 3175	19/8 Lewalan Street Grovedale VIC 3216	179 Magowar Road Girraween NSW 2145	Unit 1,2 Dacre Street Mitchell ACT 2911	1/21 Smallwood Place Murarrie QLD 4172	1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448
Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	NATA# 1261 Site# 25289 Site# 25079 & 25289

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Company Name: Tetra Tech Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
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Project Name: NORTHERN RIVERS
Project ID: SYDGE319200

Order No.:
Report #: 1005684
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254

Sydney Laboratory - NATA # 1261 Site # 18217

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID														
1	BROAD C-BH1 0.1-0.5	Jul 03, 2023		Soil	S23-JI0012203		X	X		X	X	X	X						
2	BROAD C-BH1 0.5-1.0	Jul 03, 2023		Soil	S23-JI0012204						X		X						
3	BROAD C-BH1 6.8-7.0	Jul 03, 2023		Soil	S23-JI0012205				X										
4	BROAD C-BH2 0.1-0.35	Jul 03, 2023		Soil	S23-JI0012206			X	X			X	X	X					
5	BROAD C-BH2 0.35-0.8	Jul 03, 2023		Soil	S23-JI0012207							X		X					
6	BROAD C-BH2 6.8-7.0	Jul 03, 2023		Soil	S23-JI0012208					X									
7	BROAD E-BH1 0.1-0.4	Jul 03, 2023		Soil	S23-JI0012209							X		X					



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Project ID: SYDGE319200

Order No.:
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Phone: +61 2 9406 1000
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Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X		
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X	X	X	X
8	BROAD E-BH1 0.4-1.0	Jul 03, 2023		Soil	S23-JI0012210			X		
9	BR-SS1	Jul 03, 2023		Soil	S23-JI0012211				X	
10	BR-SS2	Jul 03, 2023		Soil	S23-JI0012212				X	
11	BR-SS3	Jul 03, 2023		Soil	S23-JI0012213				X	
12	BR-SS4	Jul 03, 2023		Soil	S23-JI0012214				X	
13	BR-SS5	Jul 03, 2023		Soil	S23-JI0012215	X			X	
14	BR-SS6	Jul 03, 2023		Soil	S23-JI0012216	X	X	X	X	
15	DUP1	Jul 03, 2023		Soil	S23-JI0012217				X	
16	TS	Jul 03, 2023		Trip Spike (liquid)	S23-JI0012218					X
17	TB	Jul 03, 2023		Trip Blank (liquid)	S23-JI0012219					X
18	WA-SS1	Jul 04, 2023		Soil	S23-JI0012220	X			X	
19	WA-SS2	Jul 04, 2023		Soil	S23-JI0012221	X			X	
20	WA-SS3	Jul 04, 2023		Soil	S23-JI0012222				X	



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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25059 & 25289

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IANZ# 1327	IANZ# 1290

Company Name:	Tetra Tech Coffey Geotechnics Pty Ltd Chatswood	Order No.:		Received:	Jul 6, 2023 9:30 AM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	Report #:	1005684	Due:	Jul 13, 2023
Project Name:	NORTHERN RIVERS	Phone:	+61 2 9406 1000	Priority:	5 Day
Project ID:	SYDGE319200	Fax:	+61 2 9406 1002	Contact Name:	Kelsie McGillen
Eurofins Analytical Services Manager : Asim Khan					

Sample Detail



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Project Name: NORTHERN RIVERS
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Fax: +61 2 9406 1002

Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X		
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X	X	X	X
33	BL-SS1	Jul 04, 2023	Soil	S23-JI0012235	X			X		
34	BL-SS2	Jul 04, 2023	Soil	S23-JI0012236	X			X		X
35	BL-SS3	Jul 04, 2023	Soil	S23-JI0012237	X			X		X
36	BL-SS4	Jul 04, 2023	Soil	S23-JI0012238	X			X		X
37	WA-C BH1 0-0.1	Jul 04, 2023	Soil	S23-JI0012239				X		X
38	WA-C BH1 0.1-0.3	Jul 04, 2023	Soil	S23-JI0012240				X		X
39	WA-C BH1 0.3-0.8	Jul 04, 2023	Soil	S23-JI0012241	X					
40	WA-C BH1 1.0-1.25	Jul 04, 2023	Soil	S23-JI0012242				X		X
41	WA-C BH2 0-0.1	Jul 04, 2023	Soil	S23-JI0012243				X		X
42	WA-C BH2 0.1-0.3	Jul 04, 2023	Soil	S23-JI0012244	X	X	X	X	X	X
43	WA-C BH2	Jul 04, 2023	Soil	S23-JI0012245			X			



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Project Name: NORTHERN RIVERS
Project ID: SYDGE319200

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Received: Jul 6, 2023 9:30 AM
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Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

						X		X	X	
Melbourne Laboratory - NATA # 1261 Site # 1254						X				
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
43	WA-C BH2 1.5-1.9	Jul 04, 2023		Soil	S23-JI0012245					
44	WA-E BH1 0.1-0.5	Jul 04, 2023		Soil	S23-JI0012246	X			X	
45	WA-E BH1 1.0-1.5	Jul 04, 2023		Soil	S23-JI0012247			X		X
46	WA-E BH2 0.1-0.4	Jul 04, 2023		Soil	S23-JI0012248				X	
47	WA-E BH2 0.4-0.8	Jul 04, 2023		Soil	S23-JI0012249	X			X	
48	WA-E BH2 0.8-1.5	Jul 04, 2023		Soil	S23-JI0012250			X		
49	DUP4	Jul 05, 2023		Soil	S23-JI0012251				X	
50	EM-C BH1 0-0.1	Jul 05, 2023		Soil	S23-JI0012252	X	X	X	X	
51	EM-C BH1 0.3-0.8	Jul 05, 2023		Soil	S23-JI0012253				X	



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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	NATA# 1261 Site# 25289

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NATA# 2377 Site# 2370

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IANZ# 1327	IANZ# 1290

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Project ID: SYDGE319200

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Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jul 6, 2023 9:30 AM
Due: Jul 13, 2023
Priority: 5 Day
Contact Name: Kelsie McGillen

Eurofins Analytical Services Manager : Asim Khan

Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254					X		X	X		
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X	X	X	X
52	TS	Jul 05, 2023		Trip Spike (liquid)	S23-JI0012254					X
53	TB	Jul 05, 2023		Trip Blank (liquid)	S23-JI0012255					X
54	EMC BH1 1.25-1.5	Jul 05, 2023		Soil	S23-JI0012256			X		
55	BROAD C-BH1 0-0.1	Jul 03, 2023		Soil	S23-JI0012257	X				
56	BROAD C-BH2 0-0.1	Jul 03, 2023		Soil	S23-JI0012258	X				
57	BROAD E-BH1 0-0.1	Jul 03, 2023		Soil	S23-JI0012259	X				
58	BROAD E-BH2 0-0.1	Jul 03, 2023		Soil	S23-JI0012260	X				
59	EM-SS2	Jul 04, 2023		Soil	S23-JI0012261	X				
60	BL-SS5	Jul 04, 2023		Soil	S23-JI0012262	X				
61	WA-C BH2	Jul 04, 2023		Soil	S23-JI0012263	X				



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Sample Detail

Melbourne Laboratory - NATA # 1261 Site # 1254

Sydney Laboratory - NATA # 1261 Site # 18217

					X			X	X		
0.3-0.8											
62	WA-E BH1 0-0.1	Jul 04, 2023		Soil	S23-JI0012264	X					
63	WA-E BH1 0.5-1.0	Jul 04, 2023		Soil	S23-JI0012265	X					
64	WA-E BH2 0-0.1	Jul 04, 2023		Soil	S23-JI0012266	X					
65	EM-C BH1 0.1-0.3	Jul 05, 2023		Soil	S23-JI0012267	X					
66	EM-C BH1 0.8-1.5	Jul 05, 2023		Soil	S23-JI0012268	X					
Test Counts					19	12	5	5	7	4	42
										5	42
										3	3

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

µg/L: micrograms per litre

ppm: parts per million

ppb: parts per billion

%: Percentage

org/100 mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100 mL: Most Probable Number of organisms per 100 millilitres

CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTG	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxic Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
LCS - % Recovery							
Naphthalene	%	83			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	102			70-130	Pass	
TRH C6-C10	%	102			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	108			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	101			70-130	Pass	
m&p-Xylenes	%	106			70-130	Pass	
o-Xylene	%	105			70-130	Pass	
Xylenes - Total*	%	106			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits
Duplicate				Result 1	Result 2	RPD	
Naphthalene	R23-JI0006822	NCP	mg/L	< 0.01	< 0.01	<1	30%
Duplicate							
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD	
TRH C6-C9	R23-JI0006822	NCP	mg/L	< 0.02	< 0.02	<1	30%
TRH C6-C10	R23-JI0006822	NCP	mg/L	< 0.02	< 0.02	<1	30%
Duplicate							
BTEX				Result 1	Result 2	RPD	
Benzene	R23-JI0006822	NCP	mg/L	< 0.001	< 0.001	<1	30%
Toluene	R23-JI0006822	NCP	mg/L	< 0.001	< 0.001	<1	30%
Ethylbenzene	R23-JI0006822	NCP	mg/L	< 0.001	< 0.001	<1	30%
m&p-Xylenes	R23-JI0006822	NCP	mg/L	< 0.002	< 0.002	<1	30%
o-Xylene	R23-JI0006822	NCP	mg/L	< 0.001	< 0.001	<1	30%
Xylenes - Total*	R23-JI0006822	NCP	mg/L	< 0.003	< 0.003	<1	30%

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/alkylative analytes.

Authorised by:



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation

Measurement uncertainty of test data is available on request or please [click here](#).

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APPENDIX D: DATA QUALITY OBJECTIVES

As stated in Section 18 of Appendix B of Schedule B2 of the National Environment Protection (Assessment of Site Contamination) Measure 1999 ('ASC NEPM') (NEPC, 2013), the DQO process is a seven-step iterative planning approach used to define the type, quantity and quality of data needed to support decisions relating to the environmental condition of a site.

The seven-step DQO process adopted for the assessment of soil is presented in Table 5.

Table C: Data Quality Objectives

1. State the problem	<p>The site was previously impacted by flood events in February/March 2022.</p> <p>The investigation was required to characterise the soil materials to assess contamination status and to develop appropriate management requirements.</p>
2. Identify the decision	<p>The key decisions include:</p> <ul style="list-style-type: none"> - Does soil contamination present an unacceptable health and/or ecological risk to the site users with respect to the proposed development? - What is the extent and type of contamination, if present?
3. Identify inputs to the decision	<p>The primary inputs to assessing the above included:</p> <ul style="list-style-type: none"> - Previous investigations (where applicable). - Field observations including the presence of visual / olfactory indicators of contamination. - Analytical data of sample media, and QA/QC samples. - Outcome of QA/QC samples; and - Nominated investigation levels / assessment criteria.
4. Define the boundaries of the study	<p>The boundaries for the investigation are identified as follows:</p> <ul style="list-style-type: none"> - Spatial Boundaries: The locations at which the soil samples are collected from, shown in Figure 1 in Appendix A. - Temporal boundaries: The status of the sampling points at the time of the investigation. - Soil materials were investigated to typically the base of fill.
5. Develop a decision rule	<p>The decision rules applied to the investigation included:</p> <ul style="list-style-type: none"> - If the concentrations of analytes were below the adopted assessment criteria for samples representative of the exposure pathway, then the risk to human health and / or the environment was considered to be acceptable for the intended land use. - If the concentrations of analytes were above the adopted assessment criteria for samples representative of the exposure pathway, then further assessment was recommended and may have included the following: - Review of the results in-conjunction with a refined CSM to consider if exposure pathways and associated representative concentrations represent an unacceptable risk to potential receptors for the intended land use; - Completion of further investigations to refine the understanding of extent and magnitude of contamination; - Use of statistics in the assessment of data to develop relevant exposure concentrations; and

	<ul style="list-style-type: none"> - Completion of a site-specific risk assessment to refine assumptions of intake to relevant specific site pathways and indicate whether the contamination poses an unacceptable risk to receptors <p>If the completion of the above determined there was an unacceptable risk to receptors, appropriate remediation and / or management actions would have been developed to make the site suitable for its intended use.</p>
6. Acceptable limits on decision error	<p>Decision errors are incorrect decisions caused by using data that is not representative of site conditions due to sampling or analytical error, or by assessing data against incorrect criteria. As a result, in this investigation a decision may have been made that remediation / management is not needed when it is (false negative), or vice versa (false positive). There are three identified sources of decision error:</p> <ul style="list-style-type: none"> - Sampling errors, which occur when the samples collected are not representative of the conditions within the investigation area. Sampling errors are reduced by collecting samples using industry standard methods, across material types and depths and ensuring a spatial distribution that will identify hot spots of meaningful size; - Measurement errors, which occur during sample collection, handling, preparation, analysis and data reduction. Measurement errors are reduced by following industry standards (QA practices) and conducting quality control assessment (QC analysis); and - Assumption errors, which occur when the assumptions that are used to develop assessment criteria do not accurately reflect the site setting, migration pathways or receptor behaviours. False negative assumption errors are typically reduced by using conservative assumptions in the initial data review, and then false positive errors are reduced by conducting refined risk assessment. <p>To consider the potential for decision errors to have been made, an assessment of data quality indicators was undertaken as described in Section 11. The closeness of the data to the assessment criteria was also be considered.</p>
7. Optimise the design for obtaining data	<p>The methodology and rationale for obtaining relevant data for the investigation is presented in this report. The methodology and analytical plan were optimised based on site constraints, visual observations, and interim review of results.</p>

APPENDIX E: BOREHOLE LOGS

Engineering Log - Borehole

client: **ADCO Construction Pty Ltd**

principal: ***NSW Department of Education***

project: ***Northern River School Cluster***

location: ***Boardwater Public School***

Borehole ID.

BRO-C-BH1

sheet: 1 of 2

1 of 2

project no. SYDGE319200

date completed: **03 Jul 2023**

logged by: **WS**

logged by: **WS**

checked by:

checked by:

Engineering Log - Borehole

client: **ADCO Construction Pty Ltd**

principal: ***NSW Department of Education***

project: ***Northern River School Cluster***

location: ***Boardwater Public School***

Borehole ID.

BRO-C-BH1

sheet: 2 of 2

2 of 2

project no **SYDGE319200**

22 July 2022

Date completed: 09 Jul 2023

logged by: **WS**

checked by:

drilling information				material substance				soil origin, structure and additional observations				
method & support	penetration	samples & field tests	RL (m)	depth (m)	graphic log	soil group symbol	material description	moisture condition	consistency / relative density	hand penetrometer (kPa)		
	1 2 3	water					SOIL NAME: plasticity or particle characteristics, colour, secondary and minor components		100 200 300 400			
W						SM	SILTY SAND: fine to coarse grained, brown yellow. <i>(continued)</i> 8.3 m: becoming orange brown	W	D		ALLUVIUM	
		SPT 7, 20, 28 N=48		-7		GM	SILTY GRAVEL: fine to coarse grained, sub-rounded to sub-angular, orange brown, with fine to coarse sand.	M				
				9.0			Borehole BRO-C-BH1 terminated at 9.45 m Refusal					
				-8								
				10.0								
				-9								
				11.0								
				-10								
				12.0								
				-11								
				13.0								
				-12								
				14.0								
				-13								
				15.0								
				-14								
method				support				samples & field tests				
DT	diatube	N nil			B bulk disturbed sample				soil group symbol & material description			
AD	auger drilling*	D disturbed sample			based on AS 1726:2017				VS very soft			
AS	auger screwing*	E environmental sample			S S split spoon sample				S soft			
HA	hand auger	SS undisturbed sample ##mm diameter			U# undisturbed sample ##mm diameter				F firm			
W	washbore	HP hand penetrometer (kPa)			HP hand penetrometer (kPa)				St stiff			
RR	rock roller	N standard penetration test (SPT)			N standard penetration test (SPT)				VSt very stiff			
* bit shown by suffix				N* sample recovered				H hard				
e.g. AD/T				Nc SPT with solid cone				Fb friable				
B blank bit				VS vane shear; peak/remoulded (kPa)				VL very loose				
T TC bit				R refusal				L loose				
V V bit				HB hammer bouncing				MD medium dense				
								D dense				
								VD very dense				

Engineering Log - Borehole

client: **ADCO Construction Pty Ltd**

principal: ***NSW Department of Education***

project: ***Northern River School Cluster***

location: ***Boardwater Public School***

Borehole ID.

BRO-C-BH2

sheet: 1 of 2

1 of 2

project no. SYDGE319200

SYDGE319200

22 July 2022

Date completed: **05 Jul 2023**

logged by: **WS**

checked by:

Engineering Log - Borehole

client: ***ADCO Construction Pty Ltd***

principal: ***NSW Department of Education***

project: ***Northern River School Cluster***

location: ***Boardwater Public School***

Borehole ID.

BRO-C-BH2

sheet: 2 of 2

2 of 2

SYDGE319200

date started: **03 Jul 2023**

03 Jul 2023

logged by:

WS

checked by:



Engineering Log - Borehole

DRAFT

client: **ADCO Construction Pty Ltd**
 principal: **NSW Department of Education**
 project: **Northern River School Cluster**
 location: **Boardwater Public School**

Borehole ID. **BRO-C-BH3**
 sheet: 1 of 1
 project no. **SYDGE319200**

date started: **03 Jul 2023**
 date completed: **03 Jul 2023**
 logged by: **WS**
 checked by:

drilling information				material substance							
method & support	penetration	samples & field tests	RL (m)	depth (m)	graphic log	soil group symbol	material description	moisture condition	consistency / relative density	hand penetrometer (kPa)	soil origin, structure and additional observations
AD	Not Encountered water		2		SW	SAND: fine to coarse grained, brown-grey, trace rootlets.		M	100 200 300		TOP SOIL/FILL
					CL	SAND: fine to coarse grained, grey brown. Sandy CLAY: low plasticity, grey brown, fine to coarse sand.	<Wp	L S			ALLUVIUM
			1	1.0		Borehole BRO-C-BH3 terminated at 1.0 m Target depth					
				-0							
				-1							
				-2							
				-3							
				-4							
				-5							
method DT diatube AD auger drilling* AS auger screwing* HA hand auger W washbore RR rock roller		support M mud C casing		samples & field tests N nil		soil group symbol & material description based on AS 1726:2017		consistency / relative density			
<small>* bit shown by suffix e.g. AD/T</small>		<small>M 10-12 water level on date shown</small>		<small>B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter HP hand penetrometer (kPa) N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone VS vane shear; peak/remoulded (kPa) R refusal HB hammer bouncing</small>		<small>D dry M moist W wet Wp plastic limit WL liquid limit</small>		<small>VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense</small>			
<small>DT 0_10_004 LIBRARY (1).GLB rev.CDF 0_10_004 2021-09-30 Log COF BOREHOLE: NON CORED NRSC_COMB.GPJ <<Drawingfile>> 21/07/2023 16:13</small>											



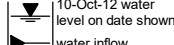
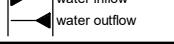
Engineering Log - Borehole

DRAFT

client: **ADCO Construction Pty Ltd**
 principal: **NSW Department of Education**
 project: **Northern River School Cluster**
 location: **Boardwater Public School**

Borehole ID. **BRO-C-BH4**
 sheet: 1 of 1
 project no. **SYDGE319200**

date started: **03 Jul 2023**
 date completed: **03 Jul 2023**
 logged by: **WS**
 checked by:

drilling information				material substance				soil origin, structure and additional observations			
method & support	penetration	samples & field tests	RL (m)	depth (m)	graphic log	soil group symbol	material description	moisture condition	consistency / relative density	hand penetrometer (kPa)	
AD	Not Encountered water					SW	SAND: fine to coarse grained, brown mottled pale yellow, trace rootlets.	M	L	100 200 300	TOP SOIL/FILL
						Cl	SAND: fine to coarse grained, grey brown.	<Wp	S	100 200 300	ALLUVIUM
				-1			Sandy CLAY: low plasticity, grey brown, fine to coarse sand.				
				1.0			Borehole BRO-C-BH4 terminated at 1.0 m Target depth				
				-0							
				-1							
				-2							
				-3							
				-4							
				-5							
				-6							
method DT diatube AD auger drilling* AS auger screwing* HA hand auger W washbore RR rock roller		support M mud C casing		penetration  water		samples & field tests B bulk disturbed sample D disturbed sample E environmental sample SS split spoon sample U## undisturbed sample ##mm diameter HP hand penetrometer (kPa) N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone VS vane shear; peak/remoulded (kPa) R refusal HB hammer bouncing		soil group symbol & material description based on AS 1726:2017		consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense	
* bit shown by suffix e.g. AD/T B blank bit T TC bit V V bit								moisture condition D dry M moist W wet Wp plastic limit WL liquid limit			