



DETAILED ENVIRONMENTAL SITE INVESTIGATION

**Leppington Civic Centre
173-183 Rickard Road
Leppington NSW 2179**

SSDA Number SSD-99319962

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Register of Amendments		
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1	24.06.2024	Issued for use
2	16.09.2024	Updated development plans
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Document Approval		
Prepared by	Date	Signed
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Approved by	Date	Signed
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Acknowledgement of Country

ECS acknowledges the Traditional Custodians of the land on which this investigation was conducted, and we pay our respects to their Elders past, present and emerging.

Project Description

This Detailed Site Investigation has been prepared by Environmental Consulting Services Pty Ltd on behalf of Leppington (1) 88 Development Pty Ltd (**the Applicant**) to address the project-specific Secretary's Environmental Assessment Requirements (SEARs) issued the proposed State Significant Development Application (SSDA) SSD-99319962. The development is located at 173-183 Rickard Road, Leppington (the Site) and is located within the South West Growth Area (**SWGA**) within the Camden Local Government Area (**LGA**).

The project seeks detailed development consent for the construction of a mixed-use development to deliver Leppington Civic Centre, comprising shop top housing to support residential development and commercial land uses at 173-183 Rickard Road, Leppington. Specifically, the SSDA seeks consent for:

- Demolition and earthworks to prepare the site for future development.
- Delivery of new roads and approximately 6,500 sqm of open space.
- Delivery of 8 residential buildings to accommodate a total of 1493 units, comprising of:
 - Build to Sell Apartments: 864
 - Build to Rent Apartments: 412
 - Affordable Apartments 217 (representing circa 15% of total residential yield)
- Delivery of a 156-key hotel (non-residential).
- Approximately 40,500 sqm of non-residential Gross Floor Area (GFA).
- Loading and car parking facilities on the lower ground and basement levels.

The proposed development is supported by concurrent rezoning application to seek amendments to Appendix 5 Camden Growth Centres Precinct Plan within the *State Environmental Planning Policy (Precincts – Western Parkland City) 2021* pursuant to the concurrent rezoning process through the Housing Delivery Authority (**HDA**) planning pathway. This concurrent rezoning will provide the rezoning and variations to development standards required to facilitate the delivery of the Leppington Civic Centre and Leppington Town Centre, generally in accordance with the Leppington Town Centre State-Assessed Rezoning Proposal (**SARP**).

I Simon Caples, confirm this Detailed Site Investigation addresses the requirement of SEAR No. 19. Contamination and Remediation and relevant State and local legislation, policies, and guidelines including State Environmental Planning Policy (Resilience and Hazards) 2021. I further confirm that none of the information contained in the Detailed Site Investigation is false or misleading.



Executive Summary

Environmental Consulting Services Pty Ltd (ECS) was engaged to undertake an environmental assessment of the property at 173-183 Rickard Road in Leppington (the Site). ECS understands that it is proposed to redevelop Site for the construction of 8 residential buildings, a 156 key hotel and 40,500m² of non-residential floor space.

The objective of the environmental investigation was to evaluate the potential for contamination resulting from past Site activities and draw conclusion about the suitability of the Site for redevelopment and sensitive land use. The scope of work undertaken to meet this objective included the review of selected background information, review of a previous Preliminary Site Investigation report, the identification of potential contamination types and the development of a conceptual Site model and targeted soil sampling.

The Site area consists of two lots which each contain a house along their eastern boundaries fronting onto Rickard Road as well as a shed at the rear of 173 Rickard Road. Surfaces of the overall site are predominantly covered with overgrown grasses but there is also an area covered with gravel at the rear of the house on 173 Rickard Road. The topography is otherwise relatively consistent with the surrounding landscape and there appears to be no significant historical excavations that have occurred across the Site surface. It should be noted that an internal inspection of the houses was not undertaken during the time of this investigation.

During the Site inspection there was no evidence of significant thicknesses of imported fill material, and asbestos containing material was not observed across the surface or found within the test pits excavated for sampling. However, there is potential that asbestos containing material is contained within the cladding or the eaves of the existing houses.

The history review showed the land has been primarily used for residential purposes since the construction of the houses. Historical aerial photographs confirm that the construction of the existing houses was completed sometime between 1947 and 1955 for the house at 173 Rickard Road, and then sometime prior to 1965 for the house at 183 Rickard Road. These photographs also show evidence of early agricultural activity on the Site and on adjoining and nearby land, indicating the potential for pesticide use during farming practices prior to development. As the Site has otherwise remained mostly undeveloped and has been used for residential purposes, the potential for contamination from the use pesticides or from residual demolition waste including asbestos is limited.

To characterise the surface material, 43 shallow test pits were excavated into sandy clayey soils with traces of organic debris and some rocks. The results of the soil analysis indicated that all contaminants were under the site assessment criteria for sensitive land use. The analysis also did not indicate concentrations of organochlorine pesticides or asbestos within the surface soil which could represent contamination from agricultural land use or application to structures to prevent termite damage (or another pest invasion).

Based on the findings of this Detailed Site Investigation, ECS considers the Site is suitable for redevelopment and sensitive land use following the implementation of the following recommendations:

- A hazardous building materials survey should be undertaken by a suitably qualified consultant prior to the demolition of buildings. Asbestos containing material (ACM) identified during the building survey, should be dismantled by an appropriately licensed asbestos removalist in such a manner that does not impact the ground surface;

- The preparation of a waste classifications for any material to be excavated and disposed of off-site. The waste classifications must be prepared in accordance with EPA guidelines; and
- All waste must be managed and disposed of in accordance with current guidelines and regulations.

TABLE OF CONTENTS

1.0	INTRODUCTION	6
1.1	Objectives	6
1.2	Scope of Work	7
2.0	SITE INFORMATION	8
2.1	Site Identification	8
2.2	Site Location and Regional Setting	9
2.3	Zoning	9
2.4	Surrounding Development	10
2.5	Topography	11
2.6	Surface Conditions	11
3.0	GEOLOGY AND HYDROGEOLOGY	13
3.1	Regional Geology	13
3.2	Acid Sulfate Soil (ASS) Risk Planning	13
3.3	Hydrogeology	13
3.4	NSW EPA Records	13
4.0	PREVIOUS INVESTIGATIONS	14
4.1	Preliminary Site Investigation	14
4.2	Historical Aerial Photographs	14
4.3	Public Registers and Planning Records	14
4.4	History Summary	14
4.5	Preliminary Site Inspection	15
4.6	Preliminary Conceptual Site Model	16
4.7	Conclusion and Recommendations	17
5.0	DATA QUALITY OBJECTIVES	19
6.0	CONCEPTUAL SITE MODEL SUMMARY	21
7.0	SITE ASSESSMENT	23
7.1	Site Inspection	23
7.2	Assessment Method	27
7.3	Quality Plan	29
8.0	ASSESSMENT GUIDELINES	30
9.0	INVESTIGATION RESULTS	32
9.1	Site Conditions	32
9.2	Analytical Results	32
9.3	Data Quality Review	38
10.0	CONCLUSIONS	40
11.0	LIMITATIONS	41

Figures

Figure 2.1 – Site Location Plan
 Figure 2.2 – Zoning Map
 Figure 2.3 – Site Surroundings
 Figure 7.1 – 173 Rickard Road
 Figure 7.2 – 183 Rickard Road
 Figure 7.3 – Rear of 173
 Figure 7.4 – Gravel Stockpile
 Figure 7.5 – Surface Fill
 Figure 7.6 – Western Surface Conditions
 Figure 7.7 – Sample Location Plan

Tables

Table 2.1 – Site Identification
 Table 3.1 – NSW EPA Records
 Table 4.1 – Historical Aerial Photographs
 Table 4.2 – Summary of Exposure Pathways
 Table 6.1 – Source Pathway Analysis
 Table 7.1 – Sample Schedule
 Table 8.1 – Soil Assessment Criteria
 Table 9.1 – Summary of Results
 Table 9.2 – Relative Percent Difference

Appendices

Appendix 1 – Development Plans
 Appendix 2 – Previous Investigation Report
 Appendix 3 – Laboratory Report

1.0 INTRODUCTION

Environmental Consulting Services Pty Ltd (ECS) was engaged to undertake a Detailed Site Investigation (DSI) of the property known as 173-183 Rickard Road in Leppington (the Site). The purpose of this assessment was to address the requirement of SEAR No. 19. Contamination and Remediation and relevant State and local legislation, policies, and guidelines including State Environmental Planning Policy (Resilience and Hazards) 2021.

ECS understands that it is proposed to redevelop the Site which will include:

- Demolition and earthworks to prepare the site for future development.
- Delivery of new roads and approximately 6,500 sqm of open space.
- Delivery of 8 residential buildings to accommodate a total of 1493 units including:
 - Build to Sell Apartments: 864
 - Build to Rent Apartments: 412
 - Affordable Apartments 217 (representing circa 15% of total residential yield)
- Delivery of a 156-key hotel (non-residential).
- Approximately 40,500 sqm of non-residential Gross Floor Area (GFA).
- Loading and car parking facilities on the lower ground and basement levels.

Plans of the proposed redevelopment have been provided in *Appendix 1*.

The investigation has been undertaken in deference to:

- Guidelines for Consultants Reporting on Contaminated Sites (NSW EPA, 2020);
- State Environmental Planning Policy (Resilience and Hazards) 2021;
- Sampling design part 1 - application (NSW Environment Protection Authority August 2022); and
- National Environment Protection Measure (NEPM) for the Assessment of the Site Contamination (NEPM 2013).

1.1 Objectives

The objectives of this environmental investigation are to:

- Assess for contamination resulting from past Site activities through the collection and analysis of soil samples;
- Evaluate the potential for human health or environmental risks based on the results of sample analysis
- Draw conclusions to the suitability of the Site for the proposed sensitive land-use; and
- Provide recommendations for further investigation, management, or remediation where necessary.

1.2 Scope of Work

The scope of work undertaken to meet this objective included the following:

- Review of selected background information including a previous environmental investigation report;
- The review of the identified potential contamination types/activities and the existing Conceptual Site Model (CSM);
- A Site inspection and targeted soil sampling; and
- The preparation of a Site assessment report.

2.0 SITE INFORMATION

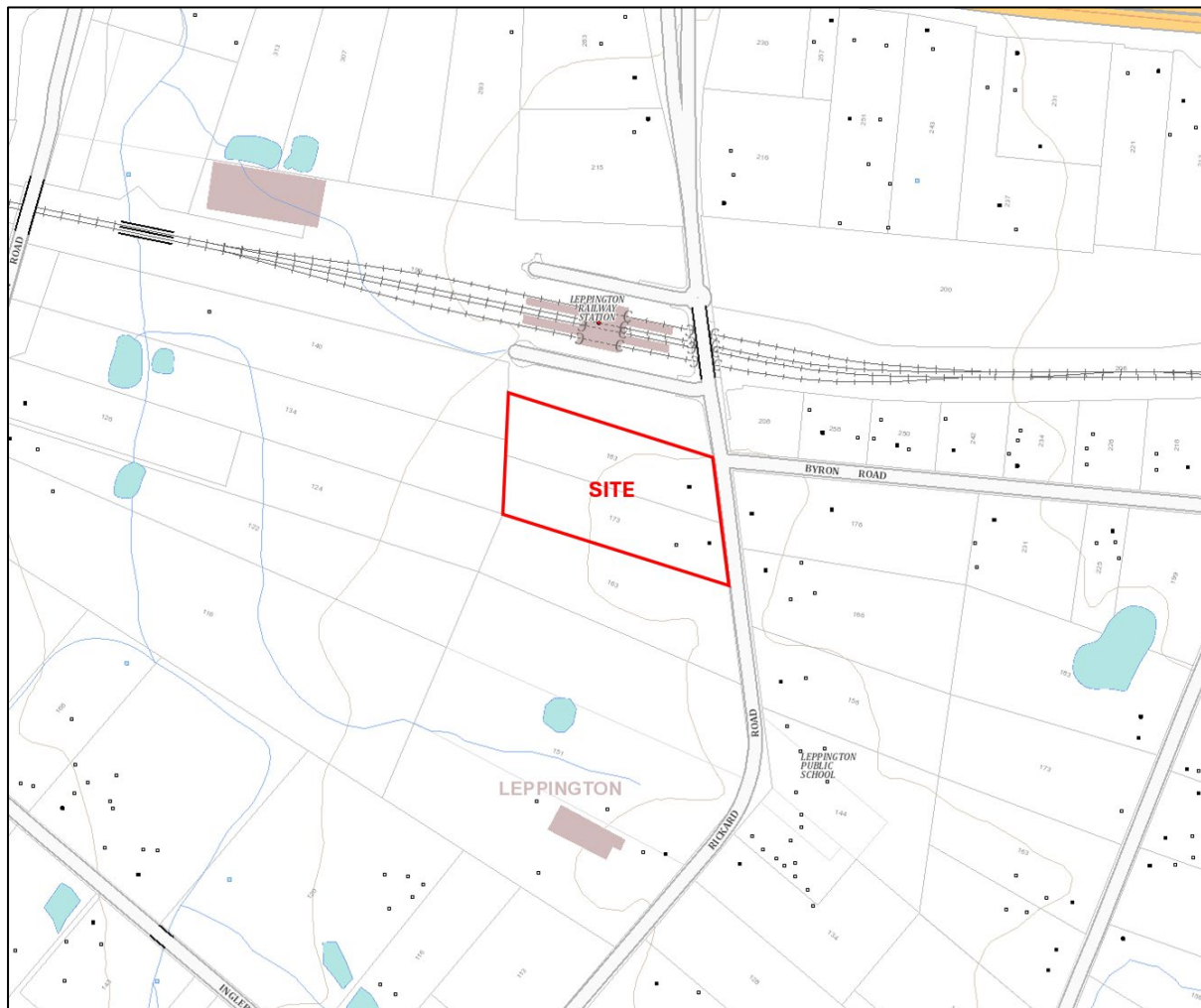
2.1 Site Identification

The location of the Site is presented in *Figure 2.1 – Site Location Plan* with the Site identification details summarised in *Table 2.1 – Site Identification*.

Table 2.1 – Site Identification

Attribute	Detail
Site Address	173 Rickard Road, Leppington NSW 2179, & 183 Rickard Road, Leppington NSW 2179
Lot & Deposited Plan	Lot 2 / - / DP812366 (173), & Lot 1 / - / DP812366 (183)
Current Land Use	Residential / Vacant / Undeveloped
Proposed Land Use	Childcare Centre / Residential / Vacant / Undeveloped
Local Government Authority	Camden Council
Current Zoning	B3 – Commercial Core
Site Area (approximate)	3.242ha (1.621ha + 1.621ha)
Geographical Location (approximate centre)	Latitude: -33.956066 Longitude: 150.808255

Figure 2.1 – Site Location Plan



2.2 Site Location and Regional Setting

The Site is in Leppington, which is located approximately 38km south-west of Sydney central business district (CBD) and 23km south-west of Parramatta CBD. It is a mixed-use suburb with large areas of undeveloped land as well as several residences and small farms scattered throughout.

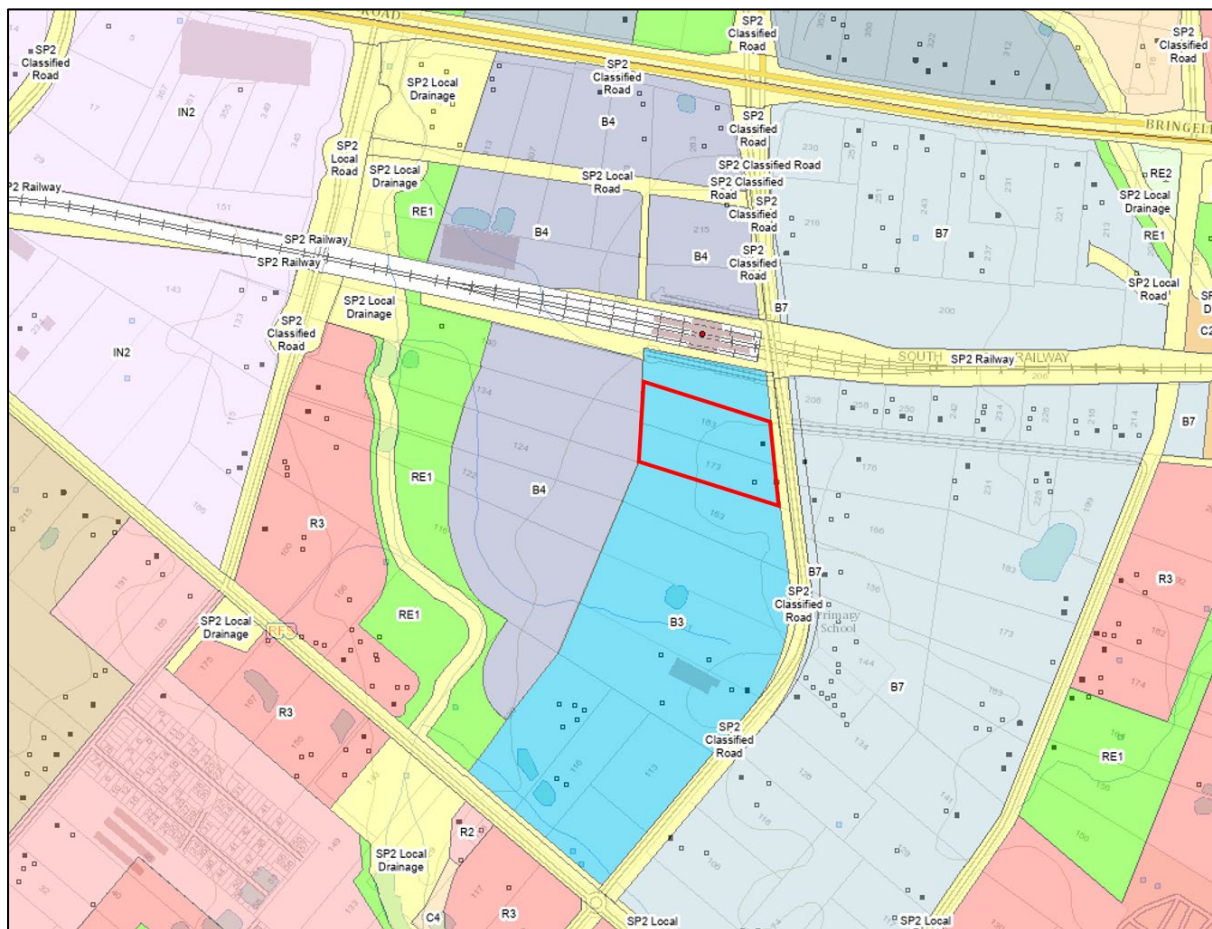
In 2004, Leppington was identified as part of Sydney's South-West Growth Centre, which has included the rapid growth of infrastructure, commercial and residential developments to several surrounding suburbs. Additionally, Leppington is situated on the T2 Airport, Inner West and South railways lines as well as having access onto the Westlink M7 motorway. Future development plans for Leppington also includes the construction of over 2,400 new homes, a new school, improved local open spaces and the rezoning of approximately 23 hectares of land for other infrastructure purposes.

The Site area consists of two lots (*Lot 1/-DP812366 & Lot 2/-DP812366*) positioned on the western side of Rickard Road, just south of Leppington Station. It has an approximate combined street frontage of 142m onto Rickard Road, which is a low- to medium-traffic street with one lane of traffic going either direction.

2.3 Zoning

Zoning of the local area is shown on *Figure 2.2 – Zoning Map*, with the Site outlined in red.

Figure 2.2 – Zoning Map



Due to being located within an area listed for metropolitan development, Leppington is comprised of several different development zones as well as having numerous areas for public recreation scattered throughout the suburb. Zoning that comprises Leppington includes:

- R2 – Low-Density Residential;
- R3 – Medium-Density Residential;
- B3 – Commercial Core Centre;
- B4 – Mixed-Use;
- B7 – Business Park;
- IN2 – Light Industrial;
- RU1 – Primary Production; and
- RU4 – Primary Production Small Lots.

The Site is located within an area zoned as ‘B3 – Commercial Core’, which is a zone that usually applies to major metropolitan areas, large town centres or regional centres. Typically, these would be zones with some of the most populated business areas (commercial, retail, offices and entertainment) as they are usually connected to, or adjacent to, high-density residential development.

Currently contained on the Site are two single-storey houses (one on each lot) situated along the roadside of Rickard Road; however, these are to be demolished during redevelopment of the overall site.

Provided that the Site is within an area zoned for mixed-use, sensitive development including the construction of a childcare centre is permitted.

2.4 Surrounding Development

Land on neighbouring properties is predominantly undeveloped but there are a few small residences facing onto Rickard Road and additional outbuildings to each residence. Most of the surrounding landscape is otherwise cleared and vacant.

Surrounding development is comprised of:

- Leppington Train Station and the railway line approximately 80m to the north;
- Some residential development (houses) generally to the east;
- Leppington Public School approximately 140m to the south; and
- Several small farms scattered throughout the area in all directions.

Adjacent land to the west of the Site is predominantly cleared but is undeveloped but there is some evidence of previous farming. Further to the south there are several development areas containing new housing as well as in Austral to the north, which is becoming dominated by residential development.

The general layout of development surrounding the Site is shown on *Figure 2.3 – Site Surroundings*, with the Site outlined in red.

Figure 2.3 – Site Surroundings



2.5 Topography

Development plans and a survey have been provided as part of the PSI which indicated that:

- The ground levels of the surrounding landscape vary but generally slope downwards to the west/north-west.
- The topography of the Site slopes downwards towards the north-west boundary corner with an overall decline of approximately 10m from the south-east boundary corner.
- The surface of the site is at an average overall elevation of approximately 89.88m AHD (Australian Height Datum); the elevations of each boundary corner are approximately:
 - 92.11m AHD at the north-east,
 - 94.63m AHD at the south-east,
 - 87.90m AHD at the south-west, and
 - 84.86m AHD at the north-west.

2.6 Surface Conditions

Due to the natural gradient of the landscape, surface conditions are varied and there are several finished ground levels across the Site to accommodate for access into the existing residences. Surrounding each residence are pathways and there are a few outlying concrete slabs at the rear of 173 Rickard Road. It is expected that the Site may have had some minor surface excavations prior to construction of the houses, however, the topography across the

whole Site is otherwise relatively consistent with surrounding land and surfaces appear relatively unchanged.

There does not appear to have been any significant filling activities as significant thicknesses of fill material were not observed across the Site surface or found within the test pits excavated for sampling.

3.0 GEOLOGY AND HYDROGEOLOGY

3.1 Regional Geology

Regional geology of the area is shown on the Penrith Geological Map scaled at 1:100,000 (Geological Series Sheet 9030, Edition 1, 1991). The Site is underlain by Bringelly Shale, which are sediments described as shale, carbonaceous claystone, claystone, laminite, fine- to medium-grained lithic sandstone, rare coal and tuff.

3.2 Acid Sulfate Soil (ASS) Risk Planning

The 'NSW Planning Portal Spatial Viewer, 2020' prepared by the Department of Customer Service includes Acid Sulfate Soil (ASS) risk maps showing that the Site is not located within a classified area, which indicates a minimal potential for ASS to be encountered.

ECS considers that there is a low likelihood of encountering acid sulfate soils within the Site area.

3.3 Hydrogeology

The nearest surface water bodies to the Site are:

- Kemps Creek, located approximately 1.3km to the west;
- Upper Canal, located approximately 1.2km to the east; and
- Several dams and tributaries scattered throughout the surrounding landscape.

The MinView database provided by the NSW Government (2021) shows that there are no registered groundwater bores within 1km of the Site.

3.4 NSW EPA Records

A review of the NSW Environment Protection Authority (EPA) databases was conducted including the following:

- Records maintained in relation to contaminated land under Section 58 of the CLM Act 1997;
- Records of sites notified to the EPA in accordance with the Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997 (2015);
- Licensed activities under the Protection of the Environment Operations Act (1997).

This review indicated that there is one property within Leppington that has been notified to the EPA. The details of the property is summarised in *Table 3.2 – NSW EPA Records*.

Table 3.2 – NSW EPA Records

Location	Type	Regulation	Distance
1443 Camden Valley Way	Service Station	Regulation under CLM Act not required.	1.1km S/SW

4.0 PREVIOUS INVESTIGATIONS

4.1 Preliminary Site Investigation

A Preliminary Site Investigation (PSI) was undertaken of this Site with the findings presented in the report titled '*Report on Preliminary Site Investigation (Contamination): Proposed Residential Subdivision 156, 166, 173 & 183 Rickard Road, Leppington NSW*', prepared by Douglas Partners (reference: 217600.00, Oct 2022). A copy of this PSI is included in *Appendix 2*.

For the purposes of the PSI, investigations were split into two segments:

- Site A, inclusive of 173-183 Rickard Road, Leppington; and
- Site B, inclusive of 156-166 Rickard Road, Leppington.

The objectives of the PSI were to:

- Assess the potential for contamination at the site based on past and present land uses; and
- To comment on the need for further investigation and/or management with regard to future development.

The scope of work undertaken to meet this objective included:

- A desktop review of the site history using selected available background information;
- A site walkover to identify potential historical contaminating activities at the site; and
- Preparation of a PSI report to comment on the suitability of the site for the proposed development and provide further recommendations where necessary.

This scope was not inclusive of any soil, water or material sampling and did not appear to include an interior inspection of the existing buildings.

4.2 Historical Aerial Photographs

The PSI included a review of selected historical aerial photographs undertaken by Douglas Partners to identify potential areas of environmental concern (AEC) at the site (*refer to Section 6.1* of the PSI report). *Table 4.1 – Historical Aerial Photographs* summarises the 'Site A' findings of the aerial photograph review (referenced from the PSI).

Table 4.1 – Historical Aerial Photographs

Year	Site Features	Surrounding Area
1947	The site appeared undeveloped with grass cover and scattered trees. Likely used for pastoral purposes.	Majority of the surrounding land is undeveloped and scattered with trees. Market garden activities are present in land to the south, and west of the site.
1955	Tree density has increased, although the eastern portion of the site has been cleared and a residence built in the south-eastern corner.	Areas in all general directions have been cleared for agricultural purposes. New houses are visible on land south of the site.
1965	A house and sheds have been built on the north-eastern corner of the site. Further clearing is also visible in the middle of the overall site.	There is evidence of further clearing on surrounding land. There are several dams present scattered across nearby properties, some with tributaries of nearby Kemps Creek. There are additional houses and sheds on land generally to the south.
1975	An area of crop growth on the northern half of the site has been cleared and is covered with	Many of the surrounding market gardens and crops appear to be covered by overgrown grass

Year	Site Features	Surrounding Area
	overgrown vegetation. The site otherwise appears relatively unchanged from the 1965 aerial photograph.	and vegetation. There are a few additional houses to the east/north-east. Additional buildings have been constructed within Leppington Public School to the south-east.
1984	Most of the tree cover has been cleared and there is some visible minor surface disturbance.	There is a potential plant nursery on land to the north. Further minor ground disturbances are likely to be associated with agricultural activities.
1991	A large shed has been constructed near the south-east corner of the site.	Multiple greenhouses and crops are visible on surrounding land in generally all directions.
1998	Additional crops are visible on the western portion of the site. There is some ground disturbance at the eastern corners.	There are additional crops visible on land to the west. There is a new building within Leppington Public School. Some of the surrounding green houses have been removed and some added.
2005	Further minor ground disturbance is visible on the site surface. Possible stockpile of material at the south-east of the site. New sealed driveway and paths are visible associated with the residence at the north-eastern corner.	Land clearing is visible on some properties surrounding the site. There is some new residential development on land to the west/north-west.
2011	The site appears relatively unchanged from the 2005 aerial photograph.	Surrounding land appears relatively unchanged from the 2005 aerial photograph.
2016	The site appears relatively unchanged from the 2011 aerial photograph.	A carpark for Leppington train station has been built on neighbouring land to the north. Some greenhouses and crops have been moved or removed.
2022	Minor surface disturbance is visible at the south-western end of the site. The site otherwise appears relatively unchanged.	Some greenhouses have been removed on nearby land, however, the surrounding area otherwise appears relatively unchanged from the 2016 aerial photograph.

4.3 Public Registers and Planning Records

The PSI identified that there is one property nearby with a license listed under Section 308 of the Protection of the Environment Operations Act 1997 (POEO Act):

- Koala Petroleum Pty Ltd at 166 Ingleburn Road in Leppington (approximately 530m south-west), which was licensed for petroleum products storage until 15 July 2003.

4.4 History Summary

The historical information gathered during the PSI history review indicated that the site has likely been used for grazing and agricultural purposes since at least 1947, and then partially for residential use after the construction of a house in the south-eastern corner in 1955. Additional buildings were later constructed sometime prior to 1965 as well as another residence constructed at the north-eastern corner by 1984.

Surrounding land has similarly seen farming applications in all general directions as well as some scattered residential development. Majority of the surrounding landscape is otherwise predominantly cleared but undeveloped.

4.5 Preliminary Site Inspection

The PSI included an inspection of the Site area and noted the following significant development:

- Houses and metal sheds were observed in the south-eastern portions of the site, suspected to be partly constructed of hazardous building materials such as asbestos containing materials (ACM).

- The south-eastern corner also comprises of a large metal shed built on a concrete slab, which was primarily used as a garage for private truck maintenance and repairs. The shed also contained intermediate bulk containers (IBC), some containing engine oils, and smaller containers for storage of fuels and chemicals.
- A shipping container was adjacent to the large metal shed, alongside additional IBCs used for the storage of oil, a jerry can, and oil drums.
- A septic tank was identified in the south-eastern corner of the site, appearing to be connected to a nearby PVC pipe which was in poor condition. Another septic tank was also identified in the eastern area of the site.
- Rubber tyres, a metal shed, and various machinery parts were aligned along the south-eastern boundary.
- A stockpile containing various scraps of timber was identified in the south-eastern area, and another stockpile appearing to be made of quarried material was situated in the vicinity.
- A drainage channel running a few metres long, was observed in the eastern half of the site.
- Potential fill, as indicated by slightly elevated areas of ground material in the central portion of the overall site.

4.6 Preliminary Conceptual Site Model

The PSI included a conceptual site model (CSM) that provides the framework for identifying if the site is contaminated and how potential receptors may be exposed to contamination in present or in future.

Potential Sources

Based on the investigation, the following potential sources of contamination and associated contaminants of potential concern (CoPC) have been identified:

- S1 – Potential fill material associated with previous levelling, stockpiled materials, earthworks, dams and demolished building materials.
 - CoPC include metals, total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene, xylene (BTEX), polycyclic aromatic hydrocarbons (PAH), polychlorinated biphenyls (PCB), organochlorine pesticides (OCP), organophosphate pesticides (OPP), phenols and asbestos.
- S2 – Storage of chemicals and fuel in on-site sheds.
 - CoPC include metals, TRH, BTEX, PAH, OCP, OPP and volatile organic compounds (VOC).
- S3 – Historical market gardens and on-site nurseries, commonly associated with the use of pesticides.
 - CoPC include metals, OCP, and OPP.
- S4 – Current and former building materials.
 - CoPC include metals, PCB and asbestos.

Potential Receptors

The following potential human receptors have been identified:

- R1 – Current residents;
- R2 – Construction and maintenance workers;
- R3 – General public (railway station carpark);
- R4 – End users (residential); and

- R5 – Adjacent site users (rural, residential, maintenance workers, general public).

The following potential environmental receptors have been identified:

- R6 – Surface water (dams and tributaries of Kemps Creek);
- R7 – Groundwater; and
- R8 – Terrestrial ecosystems.

Potential Pathways

The following potential pathways in relation to human receptors have been identified:

- P1 – Ingestion and dermal contact;
- P2 – Inhalation of dust and/or vapours;
- P3 – Surface water runoff;
- P4 – Lateral migration of groundwater providing base flow to water bodies;
- P5 – Leaching of contaminants and vertical migration into groundwater; and
- P6 – Contact with terrestrial ecology.

Summary of Potentially Complete Exposure Pathways

The PSI included a preliminary 'source-pathway-receptor' analysis to assess the potential harm being caused to human or environmental receptors from contamination sources on, or in the vicinity of, the site. The preliminary 'source-pathway-receptor' analysis is provided in *Table 4.2 – Summary of Exposure Pathways*.

Table 4.2 – Summary of Exposure Pathways

Source	CoPC	Pathway	Receptor
S1 – Fill	Metals, TRH, BTEX, PAH, PCB, OCP, OPP, and asbestos.	P1 – Ingestion and dermal contact P2 – Inhalation of dust and/or vapours	R1 – Residents R2 – Workers R3 – Public
S2 – Chemical and fuel storage	Metals, TRH, BTEX, PAH, OCP, OPP, and VOC.	P3 – Surface water runoff P4 – Lateral migration of groundwater providing base flow to water bodies	R4 – End User/Residents R5 – Neighbours
S3 – Pesticides	Metals, OCP and OPP.	P5 – Leaching of contaminants and vertical migration into groundwater P6 – Contact with terrestrial ecology	R6 – Surface Water R7 – Groundwater R8 – Terrestrial Ecosystems
S4 – Building materials	Metals, PCB and asbestos.		

4.7 Conclusions and Recommendations

The results of the preliminary desktop review and site walkover identified that the site and surrounding area has had a history of agricultural land use mostly consisting of scattered market gardens. Based on the findings of Douglas Partners, the PSI identified the following areas of environmental concern (AEC):

- AEC1 – Potential for imported contaminated fill material during construction and surface excavations during previous development works;
- AEC2 – Potential for contaminated surface soils by result of local chemical storage;
- AEC3 – Potential contamination of surface soils by historic use of pesticides; and

- AEC4 – Potentially hazardous building materials contained within existing site buildings and structures.

Based on these conclusions, the PSI recommends:

- Further detailed assessment of the site to assess the extent of any potential contamination sources, including intrusive soil sampling;
- In the event that the site is contaminated, remediation may be required so that the site can be made suitable for the proposed development; and
- Where remediation is required, a remediation action plan (RAP) can be produced.

It is noted that the northern section of the site considered in the PSI has now been developed as a car park for the station to the north. This area is excluded from the Site and this investigation.

5.0 DATA QUALITY OBJECTIVES

The Data Quality Objective (DQO) process is a systematic, seven-step process that defines the criteria an investigation should satisfy including the type, quantity and quality of data required to support decisions relating to the investigation. DQOs for this investigation have been developed based on the seven-step approach in accordance with the NSW DEC Guidelines for the NSW Site Auditor Scheme (3rd Edition), 2017. The DQOs incorporate field quality control and laboratory analysis, methods and information on laboratory quality control data and validate the field and analytical data for this investigation. The DQOs are presented in detail in the following sections.

Step 1 - State the Problem

The Site has been the subject of a PSI that has identified AEC and CoPC that need to be further considered. The objective of the investigation is to undertake sampling to assess for the presence of contamination associated with the identified AEC that could represent a human health or environmental risk resulting and to draw conclusions regarding the suitability of the Site for the proposed development (which is a sensitive land use).

The PSI has identified the AEC which need to be investigated considering current NSW EPA Guidelines for Consultants Reporting on Contaminated Sites 2020. Where contamination is identified that is considered to be a potential human health or environmental risk and appropriate remediation or management strategy must be implemented.

Step 2 - Identify the Decisions

The assessment for contamination will be based on the results of soil sampling at the identified AEC presented in the PSI and in methodical spread across the total Site area. The decisions associated with this assessment include:

- Do the concentrations of the CoPC represent a potential a human health or environmental risk? The preliminary evaluation of data from the collection and analysis of soil samples must be subjected to a tier 1 risk assessment using the site assessment criteria (SAC) in the National Environmental Protection (Assessment of Site Contamination) Measure (2013). Where the concentration of CoPC is greater than the referenced SAC then there is a potential human health or environmental risk.
- Does there need to be additional assessments to further evaluate the extent of contamination at the Site?
- Is the Site suitable for the proposed development or does the Site need to be subject to remediation or management?

Step 3 - Identify Inputs to the Decision

The inputs required to make the identified decisions include:

- Data regarding the regional and local conditions;
- The CSM developed in the PSI;
- Review of Site data and conditions; and
- Targeted soil sampling.

Step 4 - Define the Study Boundary

The boundaries for this assessment have been identified as follows:

- Lateral boundaries – the Site area; and
- Vertical boundaries – surface soils to a depth of about 0.5m.

Step 5 - Develop an Analytical Approach

The decision rules for this investigation are:

- Results of assessment activities undertaken to investigate for actual impacts need to consider the proposed Site use. If the results of sampling encounter concentrations of contaminants greater than nominated SAC indicating a potential human health or environmental risk, then remediation or management must be undertaken.

Step 6 - Specify Performance or Acceptance Criteria

The null hypothesis is that the soil and fill material is contaminated and exceeds the adopted Site Assessment Criteria. The alternative hypothesis is that the soil and fill material is not contaminated above the adopted Site Assessment Criteria.

The incorrect consideration of background information has the potential to conclude that the Site is contaminated when it is not or alternatively, conclude the Site is not contaminated when it actually is. To provide more certainty to the conclusion regarding the contamination status of the Site, both the background information and the Site conditions will be jointly assessed.

The continuity and understanding of past Site activities provides the basis for the consideration of the necessity for Site sampling. Where there is uncertainty or indications of the potential for contamination, sampling needs to be undertaken.

The preliminary sampling at the Site needs to address the findings of the background data review and needs to include sufficient sampling locations and depths, utilise appropriate field sampling methodologies, review suitable data quality indicators (DQIs) and quality assessment procedures and incorporate appropriate data evaluation procedures such as the use of 95 percent upper confidence limit (95% UCL) calculations.

Step 7 - Optimise the Design for Obtaining Data

The data sources for this assessment are historic records that have been maintained and that are readily available, soil samples that are from targeted locations established based on the AEC developed in the PSI.

The sampling plan prepared for this investigation is based on the information presented in the PSI and considered the Site history and the Site setting. A sampling plan was established to assess near surface soil conditions with locations targeting the AEC.

The density of sampling considered the Schedule B2 of the NEPM Guideline on Site Characterisation (2011) and the sampling depth intervals set to assess surface soil. The sampling density also considered the NSW EPA Guidelines. The sampling density is considered consistent with the sampling density in the EPA guidelines.

Near surface soils are considered the primary indicator for significant impact based on the Site history.

6.0 CONCEPTUAL SITE MODEL SUMMARY

The conceptual site model (CSM) for the Site was developed during the completion of the PSI. This CSM is presented in *Section 4.6* of this report and lists the AEC and CoPC. ECS has reviewed and updated the CSM.

The CSM is the framework for identifying activities with the potential to contaminate the site and how potential receptors may be exposed to contamination (if present) either in the present or the future. I.e. it enables an assessment of the potential source – pathway – receptor linkages (complete pathways).

During the PSI and subsequent review, the following potential areas of environmental concern were identified. Each potential area of concern was analysed and determined if further investigation and management were required.

Areas of Environmental Concern

Based on the results of the background data review the Areas of Environmental Concern (AEC) include the following potential sources of contamination and associated Contaminants of Potential Concern (CoPC) have been identified.

The Areas of Environmental Concern (AEC) include the following potential sources of contamination and associated Contaminants of Potential Concern (CoPC) have been identified.

S1 – Hazardous building materials such as asbestos and lead may be present as a result damage, renovation and maintenance of the building on the Site. This includes the inferred fire damage to the original house.

S2 – Storage of chemicals within the shed including petroleum hydrocarbons.

S3 – The use of organochlorine pesticides to prevent termite damage to structures. It is noted that the existing house on the site is of brick construction on a concrete slab mitigating the need for termite treatment.

S4 – The importation of uncontrolled fill. Uncontrolled fill may contain heavy metals or hydrocarbon contaminants or asbestos.

It is noted that all AEC at this Site are associated with surface soils and “top down” impacts. Deep soils and groundwater would only be considered to be potentially contaminated if sampling of the surface soils confirmed the presence of significantly elevated levels of the CoPC.

Some of the AEC presented in the PSI have been reviewed and considered to be insignificant at this location. Fill at the Site was limited to engineered material used for the construction of a parking area. This material did not appear to be uncontrolled fill.

Based on the nature of fill on the Site and the past uses of the Site, no significant potential source of PCB contamination is suspected at the Site.

Potential Receptors

Human health receptors

R1 – Construction and maintenance workers;

R2 – End users (residential); and

R3 – Adjacent users (residential and sensitive).

Environmental receptors

R4 – Water bodies (rivers and creeks);
R5 – Ecology (vegetation and biota); and
R6 – Groundwater (freshwater).

Potential Pathways

P1 – Ingestion and dermal contact;
P2 – Inhalation of dust;
P3 – Surface water run-off;
P4 – Leaching of contaminants and vertical migration into groundwater;
P5 – Lateral migration of groundwater providing base flow to water bodies; and
P6 – Direct contact with ecological receptors (including accidental and/or via irrigation).

A 'source–pathway–receptor' approach has been used to assess the potential risks of harm being caused to human, water, or environmental receptors from potential contamination sources on or in the vicinity of the Site, via exposure pathways (complete pathways). The possible pathways between the above potential source (S1-S4) and receptors (R1 to R6) are provided in *Table 6.1 – Source Pathway Analysis*.

Table 6.1 – Source Pathway Analysis

Source	Pathway	Receptor	Risk Evaluation
S1-S4	P1 – Ingestion and dermal contact	R1 – Workers	Possible during development works
		R2 – Occupants	Possible following development works
		R3 – Neighbours	Unlikely potential source is limited
	P2 – Inhalation of dust and/or vapours	R1 – Workers	Possible during development works
		R2 – Occupants	Possible following development works
		R3 – Neighbours	Unlikely potential source is limited
	P3 – Surface water run-off	R4 – Water bodies	Unlikely the Site is relatively isolated
		R6 – Groundwater	Unlikely potential source is limited
	P4 – Leaching of contaminants	R4 – Water bodies	Unlikely the Site is relatively isolated
		R6 – Groundwater	Unlikely potential source is limited
	P5 – Migration of groundwater	R4 – Water bodies	Unlikely the Site is relatively isolated
		R6 – Groundwater	Unlikely potential source is limited
	P6 – Contact with ecological receptors	R5 – Ecology	Unlikely, potential source is limited

Notes: Risk ranking assessed as low and acceptable are shaded in green
Risk ranking assessed to be more than low shaded in yellow.

The potential area of environmental concern (AEC) identified is associated with historical Site usage. The AEC including damaged building materials (from construction, demolition, and degradation) the potential storage of chemicals and the placement of imported fill. Near surface soils are considered the primary indicator for impact based on the Site history.

7.0 SITE ASSESSMENT

To evaluate for the presence of contamination, in particular the presence and quality of fill material at the Site, the following scope of work was undertaken:

- A walkover Site inspection with observations for potential Asbestos Containing Material (ACM);
- The excavation of 43 test pits around the Site using an excavator;
- The collection of surface soil samples from the test pits; and
- The analysis of the samples for common contaminants including the contaminants of potential concern (CoPC).

The rationale for environmental sampling locations was based on the defined AEC and the probability that surface soils would show contamination (if present) from prior activities on the Site.

Methodical sampling with a density based on the Schedule B2 of the NEPM Guideline on Site Characterisation (2011) was conducted for this Site investigation. This methodical testing included placement of test pits at location including the filled parking area.

7.1 Site Inspection

A site inspection was conducted on 20 May 2024. The Site is comprised of two lots that each contain a residence at the eastern end fronting onto Rickard Road. Both houses are single-storey and have ground floors relatively consistent with the surrounding natural ground level. The significant features of the Site include:

- A weatherboard house and rear detached steel shed at the eastern end of 173 Rickard Road;
- A brick house with internal double garage at the eastern end of 183 Rickard Road;
- Signs of previous market gardens towards the western end of the site across both 173 and 183 Rickard Road, showing signs of surface disturbance; and
- Some concrete slab footings at the rear of 173 Rickard Road, where shed structures above have already been demolished.

The topography of the Site slopes downwards towards the north-western boundary corner with an overall decline of approximately 10m from the south-eastern boundary corner. Site surfaces are dominated by overgrown grass, except for a large area covered with quarried gravel at the rear of 173 Rickard Road with an adjacent stockpile of leftover material. Ground levels are otherwise consistent with the topography of the surrounding landscape.

Observed surface modifications are generally associated with the construction of the footings for the house and shed as well as the driveways onto each property, however, these are considered not significant as they provide at-grade parking at the front of each property.

There was otherwise no indication or evidence of significant thicknesses of fill material seen across the surface or found within the test pits, although some fill material was observed at the surface of some of the test pits excavated for sampling. Additionally, there was no potential Asbestos Containing Material (ACM) observed across the site surface or within test pits excavated for sampling.

It should also be noted that an internal inspection of the house was not undertaken during the time of this investigation.

Conditions of the Site are shown in the following figures:

Figure 7.1 – 173 Rickard Road



Figure 7.2 – 183 Rickard Road



Figure 7.3 – Rear of 173



Figure 7.4 – Gravel Stockpile



Figure 7.5 – Surface Fill



Figure 7.6 – Western Surface Conditions



7.2 Assessment Method

The sampling plan prepared for this investigation considered the site history alongside the identified AEC with 43 shallow test pits excavated to evaluate surface soils. Test pit locations were established to target the AEC based on a methodical sampling regime across the overall Site as well as targeted sampling around existing structures. Soil samples were collected from each test pit targeting the surface material. Each sample location was recorded in the field on a test pit log and on a chain of custody.

Test pits were labelled, and each sample labelled with its test pit number in a grid formation. The locations of the test pits are presented on *Figure 7.7 – Sample Location Plan*, using the reference axes for each test pit number.

Figure 7.7 – Sample Location Plan



The subsurface conditions encountered at each location are summarised in *Table 7.1 – Sample Schedule*.

Table 7.1 – Sample Schedule

Sample Number	Sample Depth (m)	Location	Description
AA1	0.0 – 0.2	South-East	Brown fine-grained clayey soil, organic debris and rocks
AA2	0.0 – 0.2	South-East	Brown fine-grained clayey soil, organic debris and rocks
AA3	0.0 – 0.2	Central-East	Brown fine-grained clayey soil, organic debris and rocks
AB1	0.0 – 0.2	South-East	Brown fine-grained clayey soil, organic debris and rocks
AB2	0.0 – 0.2	South-East	Brown fine-grained clayey soil, organic debris and rocks
AB3	0.0 – 0.2	Central-East	Black coarse-grained soil, bitumen and rocks
AB4	0.0 – 0.2	North-East	Brown coarse-grained clayey sandy soil, organic debris and rocks
AB5	0.0 – 0.2	North-East	Brown fine-grained clayey soil, organic debris and rocks
AC1	0.0 – 0.2	South-East	Brown fine-grained clayey soil, organic debris and rocks
AC2	0.0 – 0.2	South-East	Brown fine-grained clayey soil, bitumen, organic debris and rocks
AC3	0.0 – 0.2	Central-East	Brown fine-grained clayey soil, organic debris and rocks
AC4	0.0 – 0.2	North-East	Brown fine-grained clayey soil, organic debris and rocks
AC5	0.0 – 0.2	North-East	Brown fine-grained clayey soil, organic debris and rocks
AD1	0.0 – 0.2	South-East	Brown fine-grained clayey soil, bitumen, organic debris and rocks
AD2	0.0 – 0.2	South-East	Brown fine-grained clayey soil, organic debris and rocks
AD3	0.0 – 0.2	Central-East	Brown fine-grained clayey soil, organic debris and rocks
AD4	0.0 – 0.2	North-East	Brown fine-grained clayey soil, organic debris and rocks
AD5	0.0 – 0.2	North-East	Brown fine-grained clayey soil, organic debris and rocks
AE1	0.0 – 0.2	Central-South	Brown fine-grained clayey soil, organic debris and rocks
AE2	0.0 – 0.2	Central-South	Brown fine-grained clayey soil, organic debris and rocks
AE3	0.0 – 0.2	Central	Brown fine-grained clayey soil, organic debris and rocks
AE4	0.0 – 0.2	Central-North	Brown fine-grained clayey soil, organic debris and rocks
AE5	0.0 – 0.2	Central-North	Brown fine-grained clayey soil, organic debris and rocks
AF1	0.0 – 0.2	Central-South	Brown fine-grained clayey soil, organic debris and rocks
AF2	0.0 – 0.2	Central-South	Brown fine-grained clayey soil, organic debris and rocks
AF3	0.0 – 0.2	Central	Brown fine-grained clayey soil, organic debris and rocks
AF4	0.0 – 0.2	Central-North	Brown fine-grained clayey soil, organic debris and rocks
AF5	0.0 – 0.2	Central-North	Brown fine-grained clayey soil, organic debris and rocks
AG1	0.0 – 0.2	South-West	Brown fine-grained clayey soil, organic debris and rocks
AG2	0.0 – 0.2	South-West	Brown fine-grained clayey soil, organic debris and rocks
AG3	0.0 – 0.2	Central-West	Brown fine-grained clayey soil, organic debris and rocks
AG4	0.0 – 0.2	North-West	Brown fine-grained clayey soil, organic debris and rocks
AG5	0.0 – 0.2	North-West	Brown fine-grained clayey soil, organic debris and rocks
AH1	0.0 – 0.2	South-West	Brown fine-grained clayey soil, organic debris and rocks
AH2	0.0 – 0.2	South-West	Brown fine-grained clayey soil, organic debris and rocks
AH3	0.0 – 0.2	Central-West	Brown fine-grained clayey soil, organic debris and rocks
AH4	0.0 – 0.2	North-West	Brown fine-grained clayey soil, organic debris and rocks
AH5	0.0 – 0.2	North-West	Brown fine-grained clayey soil, organic debris and rocks
AI1	0.0 – 0.2	South-West	Brown fine-grained clayey soil, organic debris and rocks
AI2	0.0 – 0.2	South-West	Brown fine-grained clayey soil, organic debris and rocks
AI3	0.0 – 0.2	Central-West	Brown fine-grained clayey soil, organic debris and rocks
AI4	0.0 – 0.2	North-West	Brown fine-grained clayey soil, organic debris and rocks
AI5	0.0 – 0.2	North-West	Brown fine-grained clayey soil, organic debris and rocks
DA1	0.0 – 0.2	Duplicate	Duplicate sample at location AA2
DA2	0.0 – 0.2	Duplicate	Duplicate sample at location AF2
DA3	0.0 – 0.2	Duplicate	Duplicate sample at location AH1
DA4	0.0 – 0.2	Duplicate	Duplicate sample at location AI5
Spike	0.0 – 0.2	-	Laboratory prepared
Blank	0.0 – 0.2	-	Laboratory prepared

Soil samples were collected directly from test pits at the nominated sample depth by hand directly into laboratory prepared sample jars wearing a new pair of disposable gloves when collecting each sample. It should be noted that test pits were created using an excavator, except for samples B4, B5, C4 and C5, which were gathered directly by hand from accessible locations around the existing house at 183 Rickard Road.

7.3 Quality Plan

The field quality assurance / quality control (QA/QC) procedures adopted during this assessment included: field decontamination protocols, sample labelling storage and handling methodologies. Field decontamination involved rinsing of sampling equipment with potable water. All samples were labelled in the field with the sample location recorded.

The analytical laboratory also conducted a QA/QC program. This program included the analysis of one blank sample and one spiked sample with every batch of samples tested; then repeat analysis of approximately 10% of the samples. The results of this laboratory QA/QC program are included within the laboratory reports.

8.0 ASSESSMENT GUIDELINES

The NSW Environment Protection Authority (EPA) has issued a number of guidelines relevant to the concentration of contaminants in soil. These are used in conjunction with the National Environment Protection Council (NEPC) – National Environment Protection (Assessment of Site Contamination) Measure 2013.

The Site Assessment Criteria (SAC) that have been used to evaluate surface soils are based on the National Environment Protection Measure (NEPM) for the Assessment of Site Contamination (NEPM 2013). These criteria are not derived as acceptance criteria for contamination at a site, but as levels above which specific consideration of risk, based on the site use and potential exposure, is required. If a risk is determined present, then remediation and/or management must be undertaken.

The National Environmental Protection Measure (NEPM) provides Health Investigation Levels (HILs) that are concentration levels, which have been tiered (provided in sets based on risk) for various exposure settings pertaining to land uses. The site criteria within the NEPM are based on potential impact to human health and are intentionally conservative.

The HILs have been derived for four (4) generic land use settings. The HILs for the land use type considered in NEPM include:

- HIL A – residential with garden/accessible soil (home grown produce <10% fruit and vegetable intake, (no poultry), also includes children's day care centres, preschools, and primary schools.
- HIL B – residential with minimal opportunities for soil access includes dwellings with fully and permanently paved yard space such as high-rise buildings and flats.
- HIL C – public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths. It does not include undeveloped public open space (such as urban bushland and reserves) which should be subject to a site-specific assessment where appropriate.
- HIL D – commercial/industrial such as shops, offices, factories, and industrial sites.

Health Screening Levels (HSLs) for various petroleum hydrocarbon compounds have also been developed. The HSLs also relate to the land use (consistent with the HILs) and are dependent on soil type and depth.

The Site is being redeveloped for sensitive use which includes child care facilities and residential use). The conservative guidelines used for this proposed land use are the residential criteria (HIL A levels). Consistent with the HILs, HSLs for residential land use (HSL A) with clayey soils have been adopted for the relevant SAC. These criteria are summarised on *Table 8.1 – Soil Assessment Criteria*.

Ecological Investigation Levels (EILs) and Ecological Screening Levels (ESLs) were used for an 'urban residential and public open space' exposure scenario as outlined in NEPM (2013) and adjusted for the soil type.

EILs for selected metals were calculated based on the conservative added contaminant limit (ACL) values for soils with a pH of 5.5 or more (neutral to slightly acidic soils) presented in Schedule B(1) of NEPM (2013) and published ambient background concentration (ABC) values (50th percentile for background levels in old suburbs with high traffic).

Table 8.1 – Soil Assessment Criteria

Contaminant	Site Assessment Criteria (mg/kg)	
	HIL/HSL	EIL/ESL
Heavy Metals		
Arsenic	100 ¹	100
Cadmium	20 ¹	
Chromium (VI)	100 ¹	203
Copper	6000 ¹	158
Lead	300 ¹	1263
Mercury	40 ¹	
Nickel	400 ¹	36
Zinc	7400 ¹	363
Total Recoverable Hydrocarbons (TRH)		
Naphthalene	5 ²	170
TRH C6-C10 (F1)	50 ²	180
TRH C10-C16 (F2)	280 ²	120
Monocyclic Aromatic Hydrocarbons		
Benzene	0.7 ²	50
Toluene	480 ²	85
Ethylbenzene	Not Limiting ²	70
Xylene (Total)	110 ²	105
Polycyclic Aromatic Hydrocarbons (PAH)		
Benzo(a)pyrene	3 ³	0.7
Total PAH	300 ³	
Organochlorine Pesticides (OCP)		
DDT+DDE+DDD	240 ¹	180
Aldrin and Dieldrin	6 ¹	
Chlordane	50 ¹	
Endosulfan	270 ¹	
Endrin	10 ¹	
Heptachlor	6 ¹	
HCB	10 ¹	
Methoxychlor	300 ¹	
Toxaphene	20 ¹	
Asbestos		
Bonded Asbestos	0.01%	

Notes: 1. HIL A levels sensitive land use.
2. Health screening levels for clayey soils over the depth interval 0-1m.
3. Carcinogenic PAHs based on the 8 carcinogenic PAHs.

9.0 INVESTIGATION RESULTS

9.1 Site Conditions

At the locations where sampling was undertaken, surface soils appeared to consist of clayey sandy soils with some organic debris and rocks. These sediments are expected to be disturbed natural soils with minor gravel waste at this location. No significant thicknesses of fill material were observed at the Site. Additionally, potential Asbestos Containing Material (ACM) was not observed within test pits or observed across the site surface.

9.2 Analytical Results

The results of analysis soil samples are summarised in *Table 9.1 – Summary of Results* and the laboratory reports are included in *Appendix 3*.

Table 9.1 – Summary of Results (1/5)

Sample Number	Spike	Blank	AA1	AA2	AA3	AB1	AB2	AB3	AB4	AB5	SAC
Heavy Metals											
Arsenic	-	-	10	9.3	8	12	6.8	2.2	4.1	4.5	100
Cadmium	-	-	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	20
Chromium	-	-	21	17	17	21	25	16	12	21	100
Copper	-	-	21	16	22	21	30	36	12	15	6000
Lead	-	-	21	20	26	17	31	17	16	21	300
Mercury	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	40
Nickel	-	-	12	12	8.9	9.6	28	33	5.6	14	400
Zinc	-	-	55	49	65	51	82	52	40	49	7400
Total Recoverable Hydrocarbons (TRH)											
Naphthalene	-	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	5
TRH F1	-	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	50
TRH F2	-	-	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	280
Monocyclic Aromatic Hydrocarbons											
Benzene	100%	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.5
Ethylbenzene	97%	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	480
Toluene	97%	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	NL
Xylene (Total)	85%	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	110
Polycyclic Aromatic Hydrocarbons (PAH)											
Benzo(a)pyrene	-	-	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	3
Total PAH	-	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	300
Organochlorine Pesticides											
DDT+DDE+DDD	-	-	< 0.5	< 0.05	< 0.05	< 0.05	0.33	< 0.5	< 0.5	< 0.05	240
Aldrin & Dieldrin	-	-	< 0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 0.5	< 0.05	6
Chlordane	-	-	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	50
Endosulfan	-	-	< 0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 0.5	< 0.05	270
Endrin	-	-	< 0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 0.5	< 0.05	10
Heptachlor	-	-	< 0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 0.5	< 0.05	6
HCB	-	-	< 0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 0.5	< 0.05	10
Methoxychlor	-	-	< 0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 0.5	< 0.05	300
Toxaphene	-	-	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 10	< 0.5	20
Organophosphorus Pesticides											
Chlorpyrifos	-	-	< 0.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	160
Asbestos											
Asbestos	-	-	ND	ND	ND	ND	ND	ND	ND	ND	0.01

Notes: All measurements in mg/kg except asbestos.
ND = non-detect.
NL = Not Limiting

Table 9.1 – Summary of Results (2/5)

Sample Number	AC1	AC2	AC3	AC4	AC5	AD1	AD2	AD3	AD4	AD5	SAC
Heavy Metals											
Arsenic	15	9.8	25	8.4	15	16	4.9	11	21	23	100
Cadmium	0.5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	20
Chromium	20	17	14	15	23	15	11	11	18	23	100
Copper	65	20	19	23	25	17	17	18	21	24	6000
Lead	37	18	48	22	19	16	23	16	15	25	300
Mercury	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	40
Nickel	11	12	12	8.8	11	12	13	6.8	11	13	400
Zinc	140	39	26	54	46	62	43	63	47	48	7400
Total Recoverable Hydrocarbons (TRH)											
Naphthalene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	5
TRH F1	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	50
TRH F2	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	280
Monocyclic Aromatic Hydrocarbons											
Benzene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.5
Ethylbenzene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	480
Toluene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	NL
Xylene (Total)	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	110
Polycyclic Aromatic Hydrocarbons (PAH)											
Benzo(a)pyrene	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	3
Total PAH	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	300
Organochlorine Pesticides											
DDT+DDE+DDD	0.19	< 0.5	<0.05	<0.05	<0.05	<0.05	< 0.5	<0.05	<0.05	<0.05	240
Aldrin & Dieldrin	< 0.05	< 0.5	<0.05	<0.05	<0.05	<0.05	< 0.5	<0.05	<0.05	<0.05	6
Chlordane	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	50
Endosulfan	0.11	< 0.5	<0.05	<0.05	<0.05	<0.05	< 0.5	<0.05	<0.05	<0.05	270
Endrin	< 0.05	< 0.5	<0.05	<0.05	<0.05	<0.05	< 0.5	<0.05	<0.05	<0.05	10
Heptachlor	< 0.05	< 0.5	<0.05	<0.05	<0.05	<0.05	< 0.5	<0.05	<0.05	<0.05	6
HCB	< 0.05	< 0.5	<0.05	<0.05	<0.05	<0.05	< 0.5	<0.05	<0.05	<0.05	10
Methoxychlor	0.09	< 0.5	<0.05	<0.05	<0.05	<0.05	< 0.5	<0.05	<0.05	<0.05	300
Toxaphene	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	< 0.5	20
Organophosphorus Pesticides											
Chlorpyrifos	< 0.2	< 0.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.2	< 0.2	< 0.2	160
Asbestos											
Asbestos	ND	ND	ND	ND	ND	ND	ND	ND	-	-	0.01

Notes: All measurements in mg/kg except asbestos.
ND = non-detect.
NL = Not Limiting

Table 9.1 – Summary of Results (3/5)

Sample Number	AE1	AE2	AE3	AE4	AE5	AF1	AF2	AF3	AF4	AF5	SAC
Heavy Metals											
Arsenic	7.5	14	11	11	7.2	19	9.1	10	15	20	100
Cadmium	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	20
Chromium	14	26	21	21	19	28	15	16	19	24	100
Copper	15	28	29	26	28	27	22	25	30	28	6000
Lead	12	23	21	24	22	28	16	20	20	23	300
Mercury	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	40
Nickel	< 5	12	12	13	14	12	7.4	11	12	18	400
Zinc	22	70	66	59	61	60	45	56	64	63	7400
Total Recoverable Hydrocarbons (TRH)											
Naphthalene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	5
TRH F1	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	50
TRH F2	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	280
Monocyclic Aromatic Hydrocarbons											
Benzene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.5
Ethylbenzene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	480
Toluene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	NL
Xylene (Total)	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	110
Polycyclic Aromatic Hydrocarbons (PAH)											
Benzo(a)pyrene	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	3
Total PAH	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	300
Organochlorine Pesticides											
DDT+DDE+DDD	<0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	240
Aldrin & Dieldrin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6
Chlordane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	50
Endosulfan	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	270
Endrin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10
Heptachlor	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6
HCB	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10
Methoxychlor	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	300
Toxaphene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	20
Organophosphorus Pesticides											
Chlorpyrifos	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	160
Asbestos											
Asbestos	-	-	-	-	-	-	-	-	-	-	0.01

Notes: All measurements in mg/kg except asbestos.
ND = non-detect.
NL = Not Limiting

Table 9.1 – Summary of Results (4/5)

Sample Number	AG1	AG2	AG3	AG4	AG5	AH1	AH2	AH3	AH4	AH5	SAC
Heavy Metals											
Arsenic	12	15	12	10	12	16	13	12	12	7.5	100
Cadmium	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	20
Chromium	20	28	21	20	23	29	23	25	26	15	100
Copper	15	24	21	22	29	17	20	29	30	24	6000
Lead	21	27	24	20	24	21	23	25	29	21	300
Mercury	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	40
Nickel	9.2	12	8.6	12	12	7.8	10	13	15	11	400
Zinc	27	54	45	74	64	28	34	58	69	52	7400
Total Recoverable Hydrocarbons (TRH)											
Naphthalene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	5
TRH F1	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	50
TRH F2	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	280
Monocyclic Aromatic Hydrocarbons											
Benzene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.5
Ethylbenzene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	480
Toluene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	NL
Xylene (Total)	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	110
Polycyclic Aromatic Hydrocarbons (PAH)											
Benzo(a)pyrene	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	3
Total PAH	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	300
Organochlorine Pesticides											
DDT+DDE+DDD	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	240
Aldrin & Dieldrin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6
Chlordane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	50
Endosulfan	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	270
Endrin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10
Heptachlor	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6
HCB	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10
Methoxychlor	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	300
Toxaphene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	20
Organophosphorus Pesticides											
Chlorpyrifos	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	160
Asbestos											
Asbestos	-	-	-	-	-	-	-	-	-	-	0.01

Notes: All measurements in mg/kg except asbestos.
ND = non-detect.
NL = Not Limiting

Table 9.1 – Summary of Results (5/5)

Sample Number	AI1	AI2	AI3	AI4	AI5	DA1	DA2	DA3	DA4	SAC
Heavy Metals										
Arsenic	14	11	8.9	11	8.4	9.5	12	18	6.4	100
Cadmium	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	20
Chromium	24	22	21	22	17	18	20	32	15	100
Copper	23	24	25	23	22	20	22	14	23	6000
Lead	27	22	21	24	19	16	20	16	18	300
Mercury	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	40
Nickel	11	11	12	10	9.3	9.4	7.2	10	8.2	400
Zinc	46	53	50	46	37	40	36	27	42	7400
Total Recoverable Hydrocarbons (TRH)										
Naphthalene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	5
TRH F1	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	50
TRH F2	< 50	< 50	< 50	< 50	< 50	< 50	< 50	79	< 50	280
Monocyclic Aromatic Hydrocarbons										
Benzene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.5
Ethylbenzene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	480
Toluene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	NL
Xylene (Total)	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	110
Polycyclic Aromatic Hydrocarbons (PAH)										
Benzo(a)pyrene	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	3
Total PAH	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	300
Organochlorine Pesticides										
DDT+DDE+DDD	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	240
Aldrin & Dieldrin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6
Chlordane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	50
Endosulfan	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	270
Endrin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10
Heptachlor	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6
HCB	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10
Methoxychlor	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	300
Toxaphene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	20
Organophosphorus Pesticides										
Chlorpyrifos	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	160
Asbestos										
Asbestos	-	-	-	-	-	ND	-	-	ND	0.01

Notes: All measurements in mg/kg except asbestos.
ND = non-detect.
NL = Not Limiting

The results of the soil analysis indicated concentrations of all potential contaminants below the site assessment criteria (SAC) for sensitive land use. The concentrations of all contaminants were also below the EILs/ESLs. The low concentrations of heavy metals detected in soil samples are considered likely to represent natural background levels at this location.

It is noted that minor concentrations of OCP were detected in samples AB2 and AC1. In addition a minor level of PAH was encountered in sample AB3. These detections are not considered significant.

9.3 Data Quality Review

The purpose of establishing data quality objectives is to ensure the field investigations and analyses are undertaken in a way that enables the collection and reporting of reliable data on which to base the site assessment.

The data quality objectives (DQOs) for sampling techniques and laboratory analysis of collected samples defines the acceptable level of error required for this investigation. The data quality objectives will be assessed by reference to data quality indicators (DQI) as follows:

Data Representativeness

Data representativeness expresses the degree which sample data accurately and precisely represents a characteristic of a population or an environmental condition. Representativeness was achieved by collecting samples at pre-determined locations across the Site and by taking an adequate number of samples to achieve the intended objectives. Consistent and repeatable sampling techniques and methods were utilised throughout the sampling, as described.

Completeness

Completeness is defined as the percentage of measurements made which are judged to be valid measurements. The completeness goal is set at there being sufficient valid data generated during the study. If there is insufficient valid data, as determined by the other data quality indicators, then additional data would be required to be collected.

Completeness also needs to consider the integrity of the samples collected delivered to the laboratory for analysis. The laboratory sample receipt notice summarises the sample integrity on receipt.

Data Comparability

Data comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This is achieved through maintaining a level of consistency for analytical techniques and reporting methods. With respect to soil vapour sampling the same method and laboratory was used to allow for comparison of pre and post demolition samples.

Reporting of results was done in consistent units and nomenclatures, and comparability was achieved by ensuring that precision and accuracy objectives were met.

Precision

Precision measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples. The criteria used for the assessment of RPDs is based on guidelines given in AS4482.1 (1997) and laboratory criteria but has been set by ECS for this assessment. If duplicate results are not within the acceptable RPDs, investigation into the cause is initiated. If a cause cannot be determined the validity of the data is questioned.

Acceptable targets for precision of field duplicates will be 30% or less, consistent with NEPM (2013). RPD failures will be considered qualitatively on a case-by-case basis taking into account factors such as the concentrations used to calculate the RPD (i.e. RPD exceedance where concentrations are close to the PQL are typically not as significant as those where

concentrations are reported at least five or 10 times the PQL), sample type, collection methods and the specific analyte where the RPD exceedance was reported.

RPD is calculated as the absolute value of the difference between the initial and repeat result divided by the average value expressed as a percentage. The overall success is based on assessment of the data set as a whole and not on individual acceptance or exceedance within the data set.

A summary of the duplicate soil samples with the calculated RPDs is presented in the Table 9.2 –Relative Percent Differences. Only RPDs have been calculated for metals as all other results were below the level of reporting.

Table 9.2 – Relative Percent Difference

Duplicate Pairs	1		RPD	2		RPD
Sample Number	DA1	AA2		DA2	AF2	
Heavy Metals						
Arsenic	9.5	9.3	1	12	9.1	27
Cadmium	< 0.4	< 0.4	-	< 0.4	< 0.4	-
Chromium	18	17	6	20	15	29
Copper	20	16	22	22	22	0
Lead	16	20	22	20	16	22
Mercury	< 0.1	< 0.1	-	< 0.1	< 0.1	-
Nickel	9.4	12	25	7.2	7.4	3
Zinc	40	49	20	36	45	22
Duplicate Pairs	3		RPD	4		RPD
Sample Number	DA3	AH1		DA4	AI5	
Heavy Metals						
Arsenic	18	16	12	6.4	8.4	27
Cadmium	< 0.4	< 0.4	-	< 0.4	< 0.4	-
Chromium	32	29	10	15	17	13
Copper	14	17	19	23	22	4
Lead	16	21	27	18	19	5
Mercury	< 0.1	< 0.1	-	< 0.1	< 0.1	-
Nickel	10	7.8	25	8.2	9.3	13
Zinc	27	28	4	42	37	13

The analysis of duplicate samples showed correlation with consistent detections/non detections. Where RPDs were able to be calculated most results were below the acceptance criteria. The trip spike and trip blank collected during this investigation showed acceptable results with no indication of cross contamination or unacceptable loss of volatiles.

The analytical laboratory QA/QC program included the analysis of one blank sample and one spiked sample with every batch of samples tested, and the repeat analysis of approximately 10% of the samples. Laboratory Quality Assurance and Quality Control procedures are provided in the Final Certificate of Analysis.

- A copy of chain of custody (COC) forms are provided with the laboratory results. These forms detail the sample logs such as sample identification, matrix, depths, dates of sampling, container type, and analysis requests;
- A sample receipt notice (SRN) is issued upon delivery of samples, and Sample Integrity and Validated Time of Sample Receipt (VTSR) Holding Times are verified;
- Analytical methods are detailed in the Final Certificate of Analysis; and
- NATA accreditation is held for each method and sample matrix type reported, unless otherwise specified, NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, and modified USEPA / APHA documents.

This soil data is considered to meet the DQIs and thus be representative and usable for the purposes of the investigation.

10.0 CONCLUSIONS

The Site area consists of two lots which currently contain a house on each along the eastern boundary and a shed at the rear of 173 Rickard Road. At the western end of the overall Site, the land is cleared and undeveloped. Surface conditions mostly consist of overgrown grass except for a large area covered with gravel adjacent to the house at 173 Rickard Road. Additionally, the topography of the Site is consistent with the surrounding landscape showing no signs of significant surface modifications. It should be noted that an internal inspection of the houses or garages was not undertaken during the time of this investigation.

During the Site inspection there was no evidence of significant thicknesses of imported fill material and asbestos containing material was not observed across the surface or found within the test pits excavated for sampling. There is the potential for ACM to be contained within cladding or eaves on the existing houses, however, ACM was not detected in the samples around either residence.

The history review showed the land has been primarily used for residential purposes since the construction of the houses. Historical aerial photographs confirm that the construction of the existing houses was completed sometime between 1947 and 1955 for the house at 173 Rickard Road, and then sometime prior to 1965 for the house at 183 Rickard Road. These photographs also show evidence of early agricultural activity on the Site and on adjoining and nearby land, indicating the potential for pesticide use during farming practices prior to development. As the Site has otherwise remained mostly undeveloped and has been used for residential purposes, the potential for contamination from the use pesticides or from residual demolition waste including asbestos is limited.

To characterise the surface material, 43 shallow test pits were excavated into sandy clayey soils with traces of organic debris and some rocks. The results of the soil analysis indicated that all contaminants were under the site assessment criteria for sensitive land use. The analysis also did not indicate significant concentrations of organochlorine pesticides within the surface soil which could represent contamination from agricultural land use or application to structures to prevent termite damage (or another pest invasion).

Based on the findings of this Detailed Site Investigation, ECS considers the Site is suitable for redevelopment and sensitive land use following the implementation of the following recommendations:

- A hazardous building materials survey should be undertaken by a suitably qualified consultant prior to the demolition of buildings. Asbestos containing material (ACM) identified during the building survey, should be dismantled by an appropriately licensed asbestos removalist in such a manner that does not impact the ground surface;
- The preparation of a waste classifications for any material to be excavated and disposed of off-site. The waste classifications must be prepared in accordance with EPA guidelines; and
- All waste must be managed and disposed of in accordance with current guidelines and regulations.

11.0 LIMITATIONS

This report has been prepared by ECS for Leppington (1) 88 Development Pty Ltd based on the objectives and scope of work list in Sections 1.1. No warranty, expressed or implied, is made as to the information and professional advice included in this report. Anyone using this document does so at their own risk and should satisfy themselves concerning its applicability and, where necessary, should seek expert advice in relation to their particular situation.

The opinions, conclusions and recommendations in this report are based on conditions encountered during site visits and information reviewed at the date of preparation of the report. ECS has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

In preparing this report ECS has relied on information contained in reports prepared by others and on information from third parties. ECS disclaims liability arising from errors and omissions contained within reports and information prepared by others. ECS has also relied on information contained in searches of government websites and has not independently verified or checked the data contained on these websites.

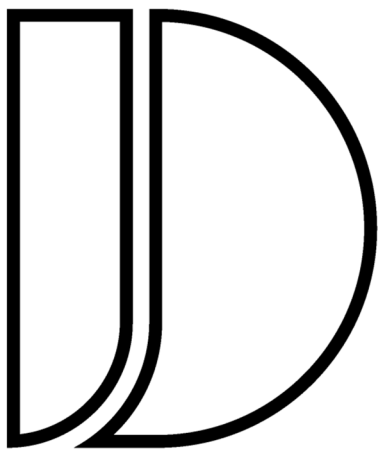
In preparing this report, current guidelines for assessment and management of contaminated land were considered. The conclusions reached in this report are dependent on the limitations inherent in all subsurface investigations where horizontal and vertical variation in contaminant concentrations can occur. No subsurface assessment can accurately predict the contaminant concentration at all points.

APPENDIX 1

173 Rickard Road. Leppington

Proposed Child Care Centre

- GENERAL NOTES
1. CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING WORK OR PREPARING SHOP DRAWINGS. DO NOT SCALE FROM DRAWINGS.
 2. ALL BUILDING WORKS SHALL BE IN ACCORDANCE WITH THE RELEVANT NATIONAL CONSTRUCTION CODE (NCC), BUILDING CODE OF AUSTRALIA (BCA), RELEVANT AUSTRALIAN STANDARDS (AS), INCLUDING AMENDMENTS AND THE REQUIREMENTS OF COUNCIL AND PRIVATE CERTIFIERS (PC) AND OTHER AUTHORITIES HAVING JURISDICTION.
 3. THE ARCHITECTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT CONSULTANT DRAWINGS AND REPORTS FOR COORDINATION AND INFORMATION.
 4. THRESHOLDS AND DOORWAYS ARE FLUSH FOR WHEELCHAIR ACCESS IN ACCORDANCE WITH AS1428.1 DESIGN FOR ACCESS AND MOBILITY. REFER TO ACCESS CONSULTANT REPORT FOR DISPENSATIONS AND POTENTIAL PERFORMANCE SOLUTION PROPOSED.
 5. DRAWINGS ARE NOT COORDINATED BY JANSSEN DESIGNS. CONDITIONS AND DOCUMENTS NEED TO BE COORDINATED AND CHECKED TO CONFIRM THEY SATISFY THE AUSTRALIAN STANDARDS, SPECIALIST DISABILITY ACCOMMODATION, DESIGN FOR DISABILITY ACCOMMODATION, DEVELOPMENT APPLICATION REQUIREMENTS, THE NCC, BCA CODES AND CONTROLS THAT APPLY TO THIS PROJECT. A COORDINATED CONSTRUCTION SET MAY VARY FROM THE PRODUCED DRAWINGS. JANSSEN DESIGNS DOES NOT ACCEPT ANY LIABILITY, DIRECT OR INDIRECT, FOR ANY LOSS LIABILITY OR LOSS SUFFERED OR INCURRED BY ANY PERSON OR THIRD PARTY PLACING ANY RELIANCE ON THE SERVICES OR DOCUMENTS OR ADVICE ARISING IN CONNECTION WITH THE SERVICE.
 6. ALL STRUCTURAL ELEMENTS ARE SHOWN INDICATIVELY AND ARE TO BE CONFIRMED WITH THE DESIGN, DETAIL AND SPECIFICATION OF THE STRUCTURAL ENGINEER.
 7. ALL STRUCTURAL FRAMING, LOADING, BEARING, RETAINING AND FIXING OF ELEMENTS ARE TO THE DESIGN, DETAIL AND SPECIFICATION OF THE STRUCTURAL ENGINEER.
 8. ALL SERVICES ELEMENTS INCLUDING HYDRAULICS, ELECTRICAL, MECHANICAL, FIRE AND COMMUNICATION SERVICES SHOWN ARE INDICATIVE ONLY. REFER TO SERVICES CONSULTANT SEPARATE DOCUMENTATION AND SPECIFICATION FOR DETAILED DESIGN.
 9. ANY DISCREPANCIES BETWEEN ARCHITECTURAL CONSULTANT DOCUMENTATION ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY FOR CLARIFICATION.
 10. ALL CONCRETE AND METALWORK ITEMS, SUCH AS SHOP DRAWINGS, TO BE ORGANISED AND REVIEWED BY THE CLIENT.
 11. ALL SITE AND BUILDING GRID SET-OUT IS TO BE CONDUCTED AND VERIFIED BY A REGISTERED SURVEYOR BEFORE COMMENCEMENT OF CONSTRUCTION WITH ANY DISCREPANCIES NOTIFIED TO THE CLIENT FOR CLARIFICATION.



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Nominated Architect: Jake Janssen NSW ARB 11575

AMENDMENTS			Project Title:		DRAWING TITLE:		CLIENT DETAILS:	
ISSUE	DESCRIPTION	DATE	Proposed Child Care Centre		Cover Page		Aland	

LOCAL GOVERNMENT AREA:			
Camden Council			
Issue For:		Issue:	
DA		A	
Date:	Scale:	Drawing #:	Project #:
7.5.2024	1:100	A000	10302A

COMPLIANCE TABLE

TOTAL SITE AREA	2,810m2
MAX BUILDING HEIGHT	8.5M
PROPOSED BUILDING HEIGHT	8.3M - COMPLIES
MAXIMUM FLOOR SPACE RATIO	0.5:1 1,405m2
PROPOSED FLOOR SPACE RATIO	0.31:1 886m2

CHILDCARE

NUMBER OF CHILDREN:

- 0-2 YEARS - 20 PLACES
- 2-3 YEARS - 20 PLACES
- 3-5 YEARS - 20 PLACES

TOTAL - 60 PLACES

NUMBER OF TEACHERS:

- 0-2 YEARS - 5 TEACHERS @ 1:4 RATIO
- 2-3 YEARS - 4 TEACHERS @ 1:5 RATIO
- 3-5 YEARS - 2 TEACHERS @ 1:10 RATIO

INDOOR PLAY AREA:

- 0-2 YEARS - 68.6m2 @ 3.43m2 / KID - COMPLIES
- 2-3 YEARS - 69.5m2 @ 3.475m2 / KID - COMPLIES
- 3-5 YEARS - 69.5m2 @ 3.475m2 / KID - COMPLIES

TOTAL INTERNAL AREA: 207.60m2 | 3.460m2 PER CHILD - COMPLIES

OUTDOOR PLAY AREA:

TOTAL AREA - XXXm2 @ XXXm2 / KID - COMPLIES

MINIMUM REQUIRED INTERNAL STORAGE VOLUME: 12m3 | 0.2m3 PER CHILD
PROPOSED INTERNAL STORAGE VOLUME: 54.11m3 | 0.901m2 PER CHILD - COMPLIES

MINIMUM REQUIRED OUTDOOR STORAGE VOLUME: 18m3 | 0.3m3 PER CHILD
PROPOSED OUTDOOR STORAGE VOLUME: XXXm3 | XXXm3 PER CHILD - COMPLIES

ZONING - B3 COMMERCIAL CORE



FLOOR SPACE RATIO - N/A (0.5:1 AS PER CCDG)



MAXIMUM BUILDING HEIGHT - 24M

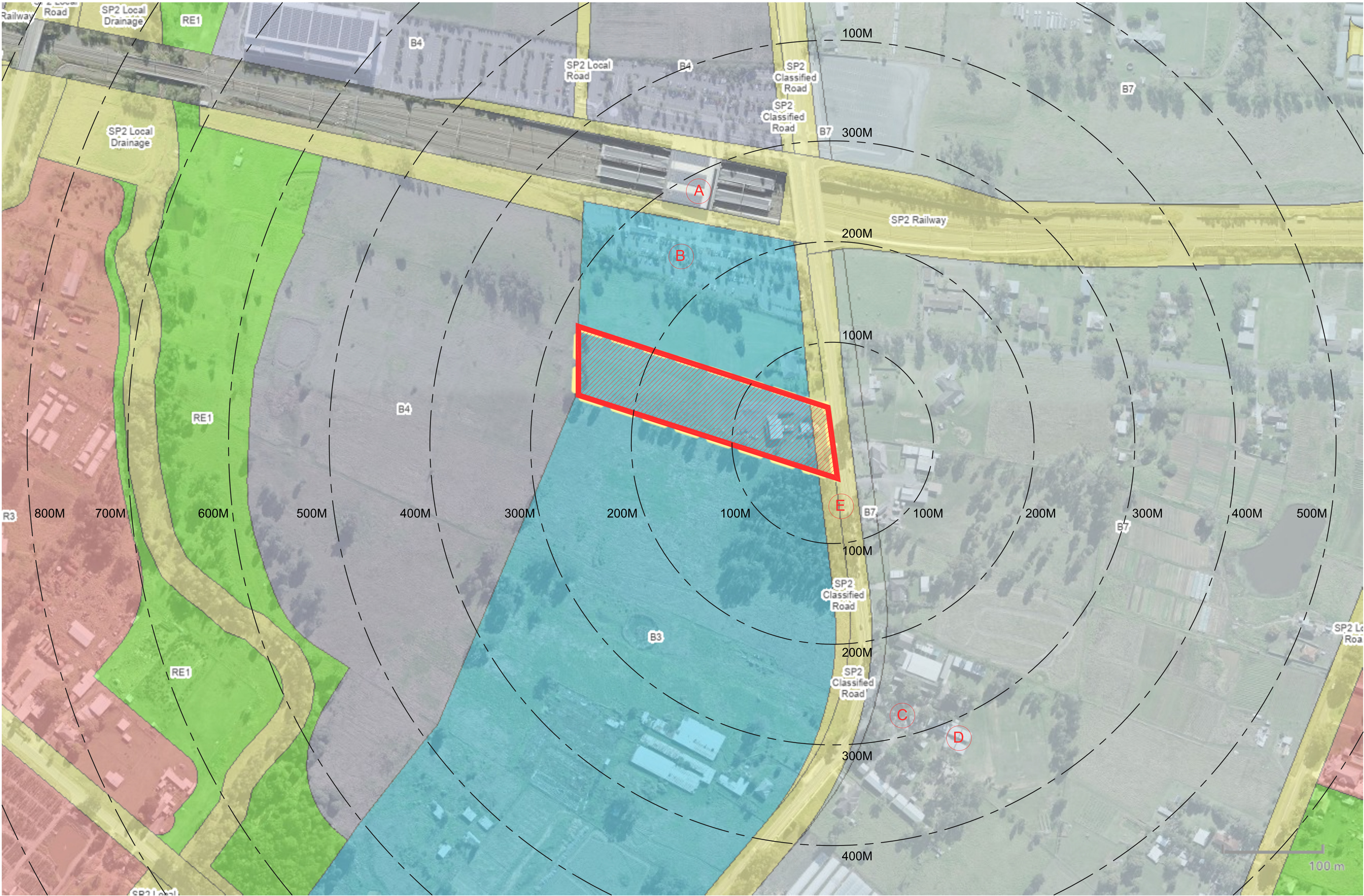


HERITAGE - N/A



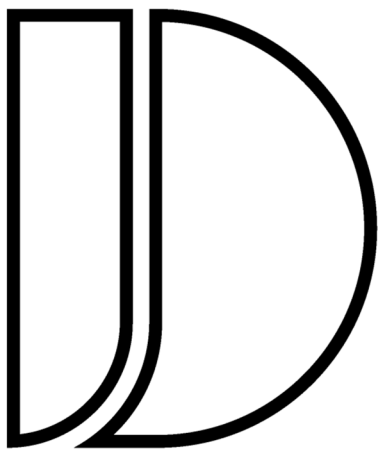
BUSHFIRE - BUFFER ZONE





- LANDMARKS
- A - LEPPINGTON STATION
 - B - LEPPINGTON STATION PARKING
 - C - LEPPINGTON PUBLIC SCHOOL
 - D - WHOOSH CARE LEPPINGTON
 - E - RICKARD ROAD

SITE CONTEXT PLAN -
N.T.S.



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AMENDMENTS		
ISSUE	DESCRIPTION	DATE

Project Title:
Proposed Child Care
Centre

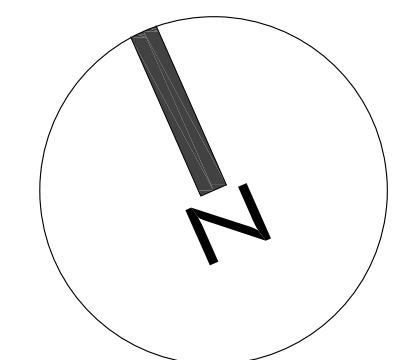
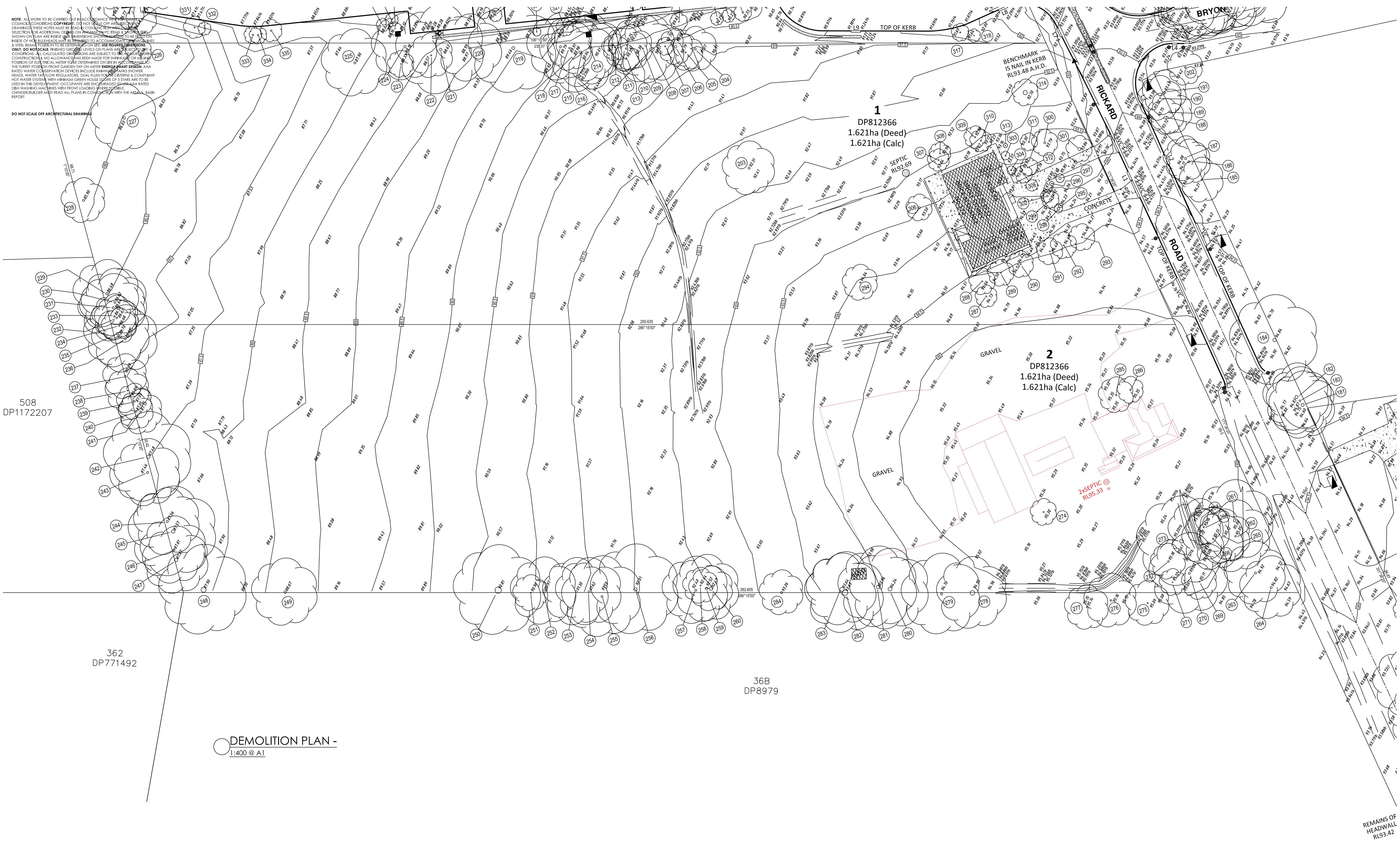
DRAWING TITLE:
Site Context Plan

ADDRESS:
173 Rickard Road,
Leppington

CLIENT DETAILS:
Aland

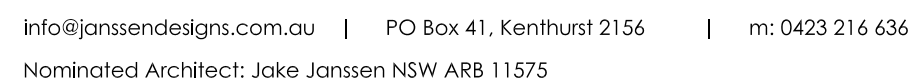
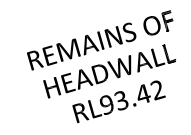
LOCAL GOVERNMENT AREA:
Camden Council

Issue For: DA	Issue: A		
Date: 7.5.2024	Scale: 1:100	Drawing #: A000	Project #: 10302A



AMENDMENTS			Project Title:	DRAWING TITLE:	CLIENT DETAILS:	
ISSUE	DESCRIPTION	DATE				
			Proposed Child Care Centre	Demolition Plan	Aland	
			ADDRESS:	LOCAL GOVERNMENT AREA:	Camden Council	
			173 Rickard Road, Leppington	Issue For: DA	Issue: A	Project #: 10302A
			Date: 7.5.2024	Scale: 1:400	Drawing #: A000	

DO NOT SCALE OFF ARCHITECTURAL DRAWINGS



Project Title:
Proposed Child Care
Centre

DRAWING TITLE:
Site Analysis Plan

ADDRESS:
173 Rickard Road,
Leppington

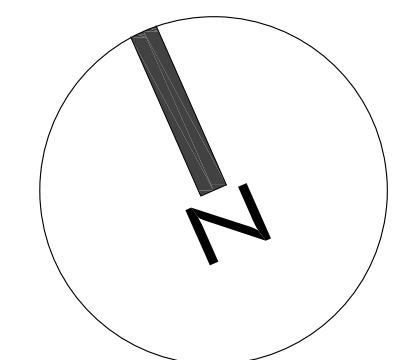
CLIENT DATA

Aland

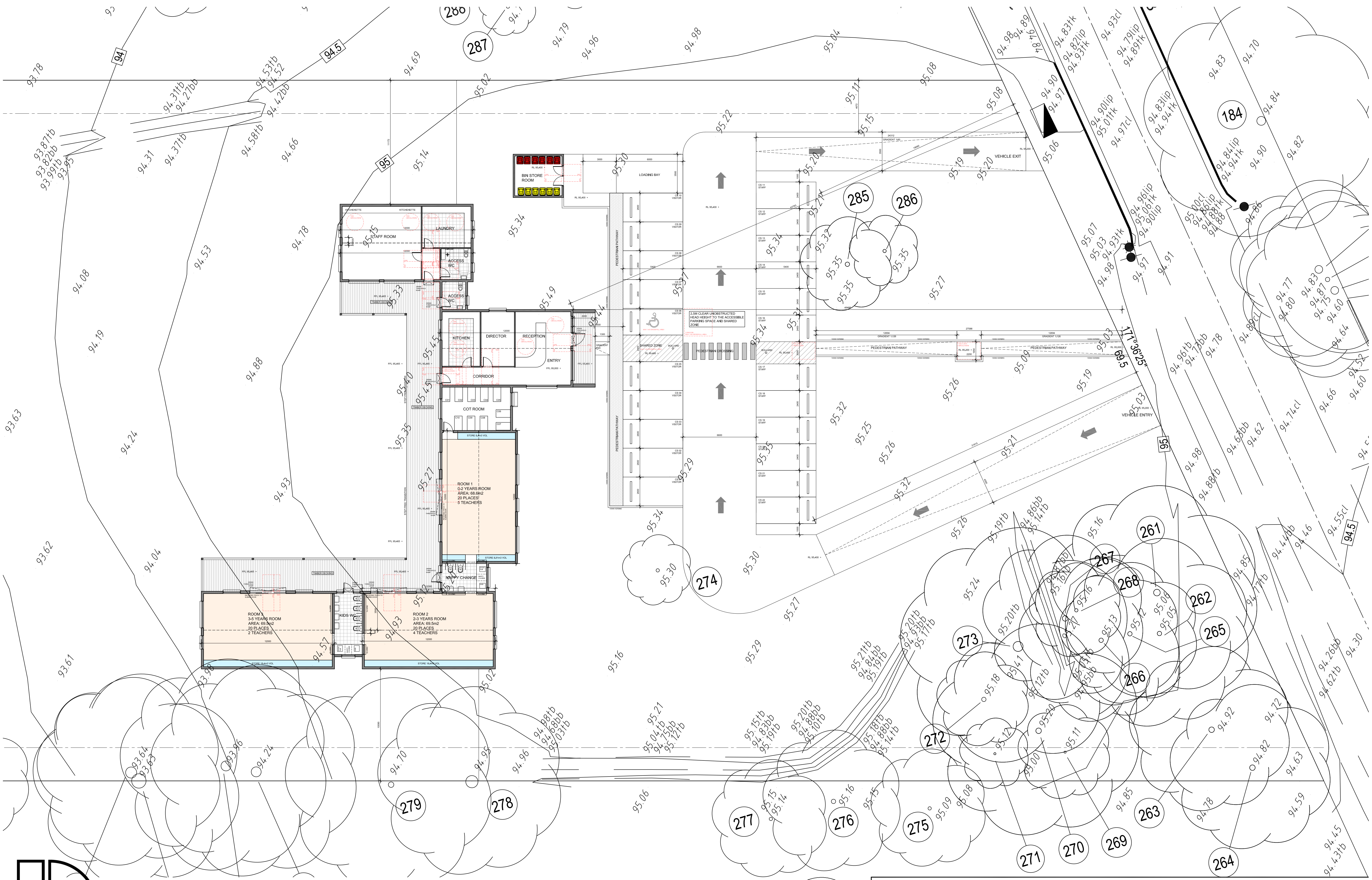
LOCAL GOVERNMENT AREA

Camden Council

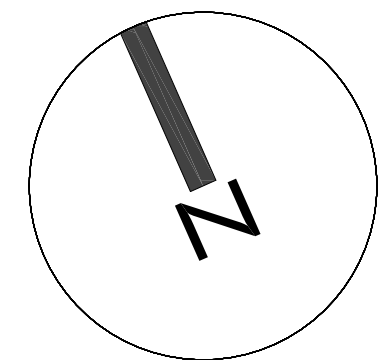
Issue For: DA		Issue: A	
Date: 7.5.2024	Scale: 1:400	Drawing #: A000	Project #: 10302A



AMENDMENTS			Project Title:	DRAWING TITLE:	CLIENT DETAILS:
ISSUE	DESCRIPTION	DATE			
			Proposed Child Care Centre	Site Plan	Aland
			Address:	LOCAL GOVERNMENT AREA:	Camden Council
			173 Rickard Road, Leppington	Issue For:	Issue:
			Date:	Scale:	Drawing #:
			7.5.2024	1:400	Project #:
					10302A



○ GROUND FLOOR PLAN -
1:150 @ A1



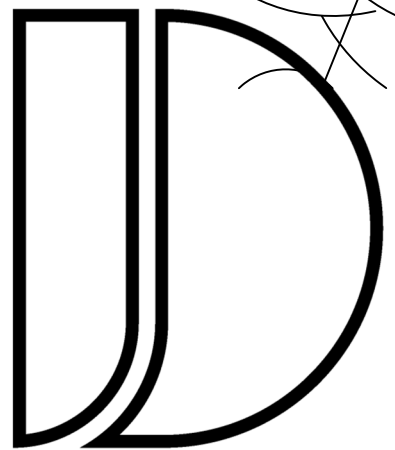
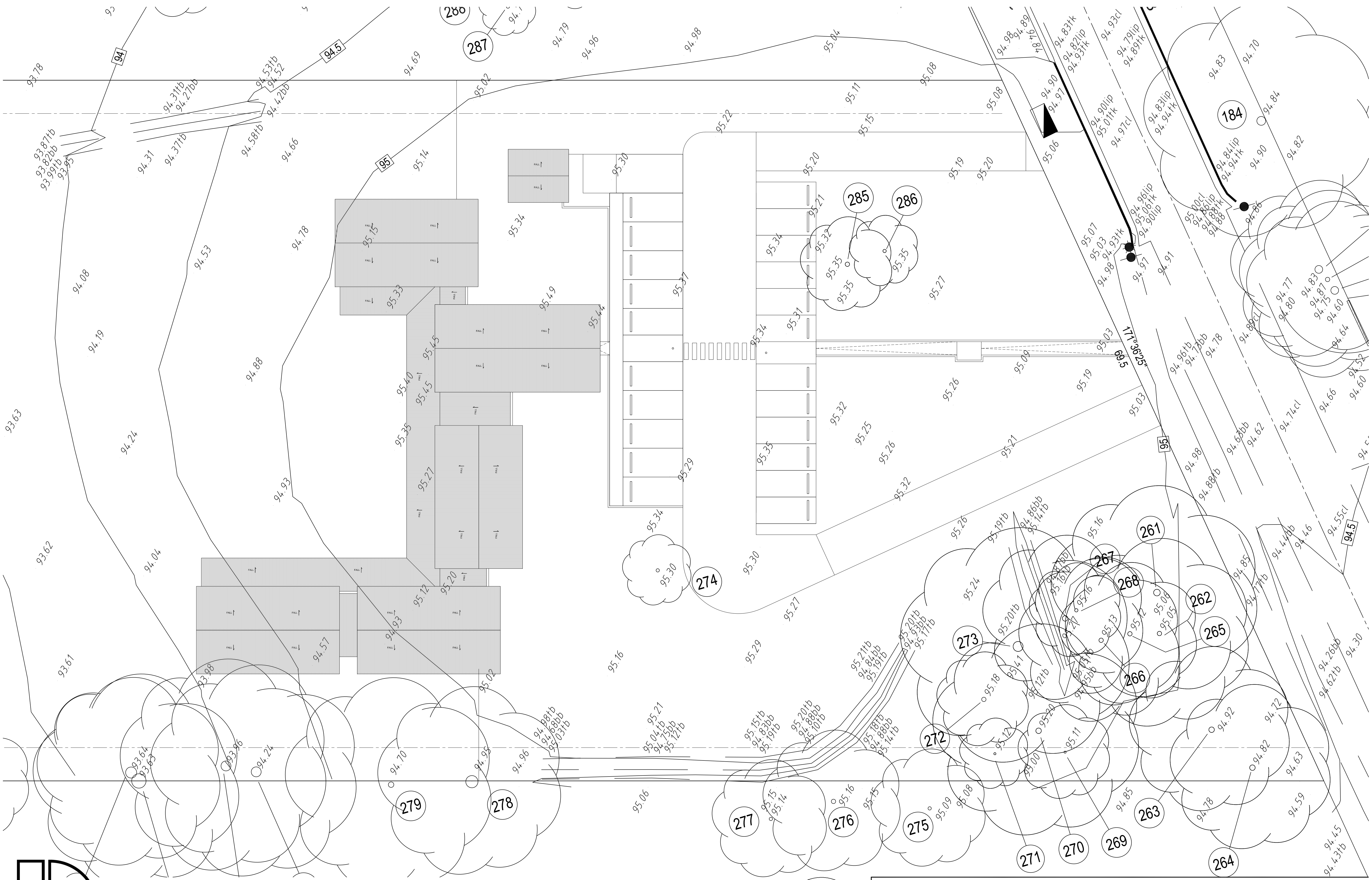
AMENDMENTS		
ISSUE	DESCRIPTION	DATE

Project Title:
Proposed Child Care
Centre

DRAWING TITLE:
Ground Floor Plan

ADDRESS:
173 Rickard Road,
Leppington

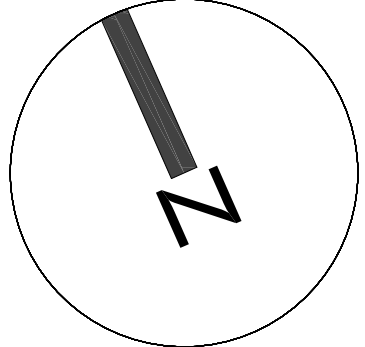
CLIENT DETAILS:			
Aland			
LOCAL GOVERNMENT AREA:			
Camden Council			
Issue For:	Issue:	Project #:	
DA	A	10302A	
Date:	Scale:	Drawing #:	
7.3.2024	1:150	A000	



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ROOF PLAN -
1:150 @ A1



AMENDMENTS		
ISSUE	DESCRIPTION	DATE

Project Title:
Proposed Child Care
Centre

DRAWING TITLE:
Roof Plan

ADDRESS:
173 Rickard Road,
Leppington

CLIENT DETAILS:
Aland

LOCAL GOVERNMENT AREA:
Camden Council

Issue For:	Issue:	Date:	Scale:	Drawing #:	Project #:
DA	A	7.3.2024	1:150	A000	10302A

APPENDIX 2



Douglas Partners

Geotechnics | Environment | Groundwater

Integrated Practical Solutions

Proposed Residential Subdivision
Project Site Investigation and Remediation

Proposed Residential Subdivision
1000 Rickard Road, Appleton, WI

Prepared for
Aard Development, Inc.

Prepared by
Douglas Partners





Douglas Parsons PhD
 Assistant Professor
 Department of Gasparius. .a.
 University of Arkansas
 Southwestern Graduate School
 Philosophy

- PAOOP Potential contamination observed soils as the result of historic underground activities and present day practices
- PAOOP Potential contamination from the road construction activities and sheds containing hazardous building materials such as asbestos and SMOx
- PAOOP Potential contamination observed soils in the north east portion of Site as the result of known materials being produced, constructed, stored and disposed of as well as a dump, missed and dumped in the past or present.

This potential gross spread contamination associated with the above sources is generally considered to be low to medium further assessment of the proposed investigation is required to assess the potential associated contamination in the area and to ensure that other additional potential sources of contamination do not exist.

In the event that contamination associated with these potential sources is present, the site is likely to be treated and remediated as a result of the required through investigation and remediation approaches. It is considered that the site can be developed for the proposed development as a result of further investigation and subsequent remediation.

In response to site contamination the recommended further assessment should be in the information provided in this report with reference to the proposed remediation and assessment of the potential contamination. Assessment of the Site of Potential Contamination Measures can be added to the proposed remediation.

Table of Contents

	Page
1. Introduction.....	1
2. Proposed Development.....	2
3. Site Context.....	3
4. Site Location.....	4
5. Surrounding Area.....	5
6. Topography.....	6
7. Site Geology.....	7
8. Soils and Land Use.....	8
9. Adjacent Properties.....	9
10. Surrounding Area and Groundwater.....	10
11. Site History.....	11
12. Historical Aerial Photographs.....	12
13. Planning Registers and Planning Records.....	13
14. Planning Records.....	14
15. Other Sources.....	15
16. Site History and Integration Assessment.....	16
17. Summary of Site History.....	17
18. Site Walkover.....	18
19. Preliminary Assessment of Site Conditions.....	19
20. Conclusions and Recommendations.....	20
21. Appendices.....	21

Appendix A	Drawings of the Site
Appendix B	Assessment of the Site
Appendix C	Photographic Plans

Report on Preliminary Site Investigation (Contamination) Proposed Residential Subdivision 156, 166, 173 & 183 Rickard Road, Leppington NSW

1. Introduction

Douglas Partners Pty Ltd (DP) has been engaged by Allied Development Services (ADS) to prepare this preliminary site investigation (PSI) for the proposed subdivision of the site located at 156, 166, 173 & 183 Rickard Road, Leppington NSW. The site, as shown on Drawing App001A, is a residential lot of approximately 1.5 hectares and the drawings provided by ADS show a planning proposal for the site is being prepared for the site which comprises Site A (approx. 0.5 ha) and Site B (approx. 1.0 ha). It is further considered that the PSI is required to inform the Planning Proposal and Masterplan for the proposed development.

The purpose of the PSI is to assess the potential contamination at the site based on past and present land uses and to provide the owner with further investigation and/or a range of options in regard to the development.

This report is prepared in accordance with the requirements including the items provided in App001B.

The following knowledge items were considered in the preparation of this report:

- DP National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM] DP document
- NSW EPA Guidelines for Consultants Reporting on Contaminated Land NSW EPA document

2. Proposed Development

It is considered that the proposed development for this site is residential and is as follows:

3. Scope of Works

The scope of the works included the following:

- A desktop review of:
 - Published geological maps and soil maps
 - Groundwater searches
 - Historical photographs
 - EPA public registers under the Contaminated Land Management Act 1997 NSW and Protection of the Environment Operations Act 1997 NSW
 - Available records

- Site walkover to identify potential pass-through activities and the site.
- Preparation of this PSI report to provide site information for the development of a conceptual risk assessment and recommendations for further investigation.

4. Site Information

Site Address	1000 Rickard Road, Ppington, SA
Legal Description	1000 A Deposited Plan D.P. 10000 1000 D.P. 10000 Part of D.P. 10000
Area	Site Area: 1000 m² Site Area: 1000 m² Area Area: 1000 m²
Setting	Site Area • 1000 m² of 1000 m² of 1000 m² • 1000 SP 1000 m² of 1000 m² of 1000 m² Site Area • 1000 m² of 1000 m² of 1000 m²
Area of Interest	1000 m ² of 1000 m ² of 1000 m ²
Current Use	Site Area • 1000 m² of 1000 m² of 1000 m² • 1000 Rickard Road 1000 m² of 1000 m² of 1000 m² • 1000 Rickard Road 1000 m² of 1000 m² of 1000 m² A private road repairs and maintenance business with associated garage has been in the case of the property. Site Area • 1000 Rickard Road 1000 m² of 1000 m² of 1000 m² • A private road repairs and maintenance business with associated garage has been in the case of the property. • 1000 Rickard Road 1000 m² of 1000 m² of 1000 m²
Surrounding Uses	North – 1000 m² of 1000 m² of 1000 m² which is 1000 m² of 1000 m² of 1000 m² East – 1000 m² of 1000 m² of 1000 m² South – 1000 m² of 1000 m² of 1000 m² West – 1000 m² of 1000 m² of 1000 m²

h si dar is sh i ig r .



Figure 1 Site boundary

5. Environmental Setting

5.1 Topography

Regional topographic data indicates ground conditioning risks.

Site A is a gently sloping area from the south east to the north east with a general dip of approximately 1% from the highest part of the site (Redwood Road) to the south east. The AHD of the south east corner of the site is approximately 10m above the AHD of the north east corner.

Site B is a gently sloping area from the south east to the north east with a general dip of approximately 1% from the highest part of the site (Redwood Road) to the south east. The AHD of the south east corner of the site is approximately 10m above the AHD of the north east corner.

5.2 Site Geology

Regional geological data indicates that Site A and Site B are both underlain by Middle Triassic aged argillaceous shales of the Riddell Group.

origins. Shallow deposits shall consist of loose to medium sand and rare gravel.

5.3 Soils Landscape

Review of the Perth Soils Landscape Sheet indicates that the site is underlain by residual alluvial soils.

The alluvial soils landscape mapping indicates characterised as a topographic region including rises of the area. A Group shall consist of a and slopes shall consist of the typical represented broad rounded rises and ridges with gentle to steep slopes. The mapping indicates that the shallow to moderate deep section of the site consists of red and brown pediment soils on rises or slopes and in drained areas. The deeper areas of the section shall consist of the typical pediment soils and some of the slopes and in areas of poor drainage. These soils are typical of the alluvial to moderate to high plasticity and generally have a poor soil drainage.

5.4 Acid Sulfate Soils

Perth SIRS and soil risk mapping indicates that the site and surrounds is classified as 'Cq(p4)' indicating an 'extremely low probability of occurrence'.

5.5 Surface Water and Groundwater

The site does not contain any surface water bodies with the exception of a small dam in the south east corner of the site.

Major water courses are present in the area including the site. The site drains to the north of the site. The Perth Soils Landscape Sheet indicates that the site is underlain by Kookps Creek.

A search of the public available registered groundwater data indicates that there are no registered groundwater bores within the site.

Based on the regional topography and the inferred direction of surface water courses, the anticipated direction of groundwater flow beneath the site is to the north towards Kookps Creek. The likely existing surface water flow to the groundwater is path.

Given the mapping of the Perth Soils Landscape Sheet, the groundwater in the fractured rock beneath the site is anticipated to be saturated and free to flow. According to the above, the site is anticipated to be a significant potential for groundwater.

6. Site History

A desktop review of site history information has been undertaken to identify potential areas of concern related to PA and related activities opportunities and P which arises from previous and current uses. The desktop investigation has identified the following:

- A review of historical aerial photographs
- A review of PA data base searches
- Review of historical Planning Records
- A review of available online sources including <https://www.a.gov.au>
- Listing of other potential site contamination issues based on DP's experience with sites of a similar nature and scale.

The following sections detail the findings of the desktop investigation.

6.1 Historical Aerial Photography

Historical aerial photographs from 1947 to 2015 have been reviewed and were supplied by the Spatial Services and were provided by the Map of the area. The aerial photographs are included as Drawings 1 to 10 in Appendix A. A set of aerial photos of the site and surrounding area is presented in Table 1.

Table 1: Summary of Historical Aerial Photographs

Year	Site	Surrounding Land Use
1947	The site appeared to be undeveloped land with grass cover and scattered trees likely used for grazing purposes. Ground disturbance was visible in the south eastern portion of the site. A stream was also present along the southern boundary in the south eastern portion of the site.	Majority of the site's surroundings was undeveloped grass covered land with scattered trees. Marked garden activities were present in the southern portion of the site as the site was being cropping trees were visible. Some other properties were present as well and south of the site. Rickard Road and other Road were also present in the vicinity of the site.
1960	Over time development has increased in the site and the eastern portion of the site. A appeared to have been cleared with a residential building and other sheds present in the south eastern corner. Marked garden activities were visible in the southern portion of the site as cropping trees were visible.	Parts of the northern and eastern areas of the site appeared to have been cleared for agricultural purposes. Additional residential buildings were visible in the southern area of the site.

Year	Site	Surrounding Land Use
2000	The northern portion of Site A was cleared and repurposed for agricultural use. It was used for crop growth and additional buildings including residential dwellings and sheds were constructed in the northern portion of Site A. Further clearing had occurred in the northern portion of Site A. Site A and the southern portion of Site B had undergone additional clearing and repurposed for parkland activities.	Slight ground disturbance was visible directly south of Site A and the dwelling had been removed. Further land clearing for agricultural usage has occurred north of the site and south of the site. The site was used for cropping and grazing. A paddock area was located east and south of the site. Another paddock which was used for a riverbank. Koppies Creek was present south of the site. Residential dwellings increased south and north of the site. Sheds were present south of the site.
2005	The site has retained relatively unchanged since the aerial photograph. The area of crop growth and the northern portion of Site A was covered with regrowth grass and trees.	Most of the cropping and grazing is in the cardinal directions of the site's surroundings appeared to be covered with grass. Additional residential dwellings and sheds appeared to have been constructed north of Site A. Buildings associated with cropping and grazing were present directly south of Site A. Ground disturbance possibly as a result of earthworks was also visible south of Site A. Most of the area was used as a paddock south of Site A. Another paddock was located north of Site A.
2010	Most of the area of Site A was cleared and slight ground disturbance was visible in the northern portion. A residential property was visible in the south of Site A.	Ground disturbance likely to be associated with agricultural activities and a possible paddock was present north of Site A.
2015	A large shed like structure was constructed in the south of Site A. A possible stockpile of material was present in the site. The northern portion of Site B had been cleared and used for grazing with sparse ground	Most of the ground was used for cropping and grazing. The site was used for cropping and grazing south of the site.

Year	Site	Surrounding Land Use
	disturbances visible. A residential development and driveway and the potential sheds are constructed in the north easement corner of Site A. A potential agricultural or commercial area as also visible. The southern portion of Site A increased in the increased area and a shaped track was visible.	
2000	Additional cropping during this time present in the easement portion of Site A and ground disturbance was visible in the north easement and south easement corners. Ground disturbance in the area of the sealed road was present in the northern portion of Site A.	Additional cropping during this time also visible directly across Site A. A building associated with cropping, Pottery Shop appeared in the area of the sealed road directly south of Site A. A few greenhouses were located north of the site and some greenhouses were constructed further south and south across the site. Additional residential buildings were built further across the site.
2000	Ground disturbance was visible in the easement portion of Site A. Possible stacked roots of a tree was present in the south easement portion of Site A. Sealed driveway associated with the residential building and shed are constructed in the north easement corner. Significant ground disturbances were present in the north easement portion of Site A. A possible tree shed in the north easement corner of Site A had occurred.	Further clearing and new residential development had occurred directly north of Site A and north across the site.
2000	Significant ground disturbance was visible in the southern portion of Site A and in the north easement portion of Site A. An additional building, likely to be a house or farm shed, along with a possible sealed driveway was visible in the north easement corner of Site A. Likely of a tree possible roots of a tree appeared in the present	Ground disturbance shipping containers and scattered debris had appeared in the driveway area as present across Site A. Additional greenhouses were constructed south across the site.

Year	Site	Surrounding Land Use
	adjoining the Casuarina Road and the Sim.	
2000	A Carpark associated with the Raima Station is located in the northern portion of the Sim. A high ground disturbance and stockpiling of rocks and debris is visible in the southern portion. Ground disturbances are also visible in the south of the road and north of the road. The north of the road is also under construction including the addition of a new road and large area shaded in the agricultural area with associated mining and stockpiling. The road is proposed as a road. Ground disturbances and possible rocks and debris are present in the Casuarina Road and the Sim.	The road is located north of the Sim and is used as a road for the construction of the Raima Station. The Raima Station is associated with the agricultural area and is used for the Sim. A paved road is also visible in the south of the Sim. Ground disturbances are visible in the south of the Sim.
2000	High ground disturbances are present in the road and southern portions of the Sim. An additional shaded area is visible in the north of the road and the road is visible in the area of the road. Stockpiling of rocks and debris is also present in the road. The road is shaded and the road is visible in the road. Ground disturbances and other possible rocks and debris are visible in the road and the road. Ground disturbances are visible in the road as a road for the construction of the Sim. Stockpiling of rocks and debris is visible in the road and the road.	Ground disturbances are visible in the south of the Sim and the road. The road is shaded and the road is visible in the road. The road is associated with the Raima Station and the Sim.

6.2 Public Registers and Planning Records

[illegible]

6.3 Planning Records

A proper search has provided single the S0 Group Paaiing paaiing praaii
which indicate the missing

- [illegible]

7. Site Walkover

A site walkover was conducted on a perimeter area adjacent to the groundwater monitoring network as described in Section 6. The site appears to have been used for storage of the area photograph. The following key site features pertinent to the PSI are observed from the photographs in Appendix.

7.1 Site A

- Houses and outbuildings are observed in the south eastern portion of Site A suspended in the air, suggesting hazardous building materials such as asbestos-containing materials (Photographs 11-12)
- The south eastern corner also comprised a large outbuilding which was primarily used as a garage for private work maintenance and repairs. The shed also contained interior wall materials, possibly a building loggia, and some materials for storage (Photograph 13)
- A shipping container was adjacent to the large outbuilding, additional uses used for storage of materials (Photograph 14)
- A split back was identified in the south eastern corner of Site A appearing to be composed of a large PVC pipe which was in poor condition (Photograph 15). Another split back was also identified in the eastern area of Site A (Photograph 16)
- Rubble masonry outbuildings and various other parts were noted along the southern eastern boundary (Photograph 17)
- A stockpile of various scraps of material was identified in the south eastern area and another stockpile appearing to be a large quantity of materials situated in the field (Photographs 18 and 19)
- A drainage channeling a large area of the site as a critical area as observed in the eastern half of the site (Photograph 20)
- Potential areas of high ground areas are indicated in the northern portion (Photograph 21)

7.2 Site B

- Houses and outbuildings are observed in the north eastern and south eastern portions of Site B with some structures suspended in the air, suggesting hazardous building materials such as asbestos-containing materials (Photographs 22-23)
- A large shed was present in the north eastern portion and was primarily used as a garage for the maintenance and servicing of trucks associated with a trucking business. The shed was also a storage area for various materials and various other materials (Photograph 24)
- A large area of ground storage tank (AS) used for the storage of materials as previously mentioned in the large shed (Photograph 25)

- A sandbar was washed with monitoring and maintaining a dike as observed directly as the AS Photograph
- The sandbar was washed as a sandbar/drainage ditch which consisted of a rill with a wash/ditch in either the AS or near the AS or near the AS washing activities (Photographs and
- During the investigation a rock/pk/washing and making rocks was also observed in the ditch (Photograph)
- A stockpile comprising approximately 1000 sq ft of material was observed and stockpile dimensions were 10' high by 10' wide by 10' high which was covered with grass as identified (Photograph)
- A lot of material was identified in the ditch and rocks were also identified in the ditch (Photograph)
- The ditch was also comprised of a sandbar/drainage ditch which indicated potential deposits along the ditch as a washed/ditch or a hole or other characteristics (Photograph)
- A sandbar/drainage ditch was present along the sandbar/drainage ditch (Photograph)
- A sandbar was observed in the ditch (Photograph) Approximately 10' of sandbar/drainage ditch appeared to have increased height/drainage and a dark green pig was the grass in the ditch area (See). This is likely to be as a result of direct/indirect material from the sandbar (Photograph)
- Minor ground disturbance was also identified in the ditch (Photograph) where a material appeared to have been produced (Photograph) from digging and drilling as well as digging (bag) and (photograph) pipes and (photograph) dike/slope in production (Photographs and)
- Potential was observed in the ditch (Photograph) as indicated by slight ground level (Photograph)
- The ditch was comprised of (Photograph) the other (photograph) in the ditch was observed in the ditch (Photograph) (See)
- A ditch/drainage ditch was observed in the ditch (Photographs and)
- Stockpile scrap of material was identified in the ditch area (Photograph)
- Ground disturbance was likely to be as a result of (photograph) as appeared in the ditch (Photograph)
- The ditch was comprised of a sandbar/drainage ditch (photograph) the ditch was comprised of (Photograph) (See)
- A sandbar was observed along the ditch (Photograph) in the ditch (Photograph)

8. Preliminary Conceptual Site Model

A Preliminary Conceptual Site Model (PCSM) is a representation of site conditions and information regarding potential contamination sources, receptors and exposure pathways between these sources and receptors. The PCSM provides the framework for identifying how the site area of potential contamination and how potential receptors are exposed to contamination either in the present or the future. It also allows an assessment of the potential source-pathway-receptor linkages and potential pathways.

Potential Sources

Based on the investigation, the following potential sources of contamination and associated POPs have been identified.

- Soil associated with existing and proposed aerial tank earth works, the existing and proposed and construction buildings and driveways and the construction of the rail station carpark on the site.
 - POPs include a range of aromatic hydrocarbons (RH), polycyclic aromatic hydrocarbons (PAH), polychlorinated biphenyls (PCBs), organochlorine pesticides (OPs), organophosphorus pesticides (OPPs), phosphates and asbestos.
- Soil chemical wastes and storage of various existing sheds and surrounding areas are identified as having certain uses and chemicals. In addition, a diesel AS has been identified in soil associated with existing business. There is potential for contamination of surface soils and surrounding ditches as a result of spillages, storage of a product and use of demergers as used in the truck and loading trucks.
 - POPs include RH, PAHs, PCBs, OPs, OPPs and certain organic products.
- Soil historical and agricultural activities and construction materials are associated with the site. There is potential for contamination of surface soils from agricultural products and road POPs including:
 - POPs
 - OPPs
 - Heavy metals (arsenic, lead, iron, chromium, copper, molybdenum, nickel, cobalt, cadmium, etc.)
- Soil stored and used for buildings.
 - POPs include asbestos, which is identified in the existing SM and POPs.
- Soil for power poles. A diesel oil spill and detached in the power pole has been identified along the rail line in the north of the site.
 - POPs include a range of aromatic hydrocarbons (RH), PAHs and PCBs.

Potential Receptors

The following potential receptors have been identified:

- Residential receptors
- Residential and commercial workers

- Road Gravel pits and drainage ditches
- Road side drains and ditches
- Roadside drains and ditches adjacent to the road

The following potential pathways have been identified:

- Roadside drains and ditches adjacent to the road
- Roadside drains and ditches adjacent to the road
- Roadside drains and ditches adjacent to the road
- Roadside drains and ditches adjacent to the road

Potential Pathways

The following potential pathways have been identified:

- Roadside drains and ditches adjacent to the road
- Roadside drains and ditches adjacent to the road
- Roadside drains and ditches adjacent to the road
- Roadside drains and ditches adjacent to the road
- Roadside drains and ditches adjacent to the road
- Roadside drains and ditches adjacent to the road
- Roadside drains and ditches adjacent to the road

Summary of Potentially Complete Exposure Pathways

A 'source-pathway-receptor' approach has been used to assess the potential risks of harm being caused by the road and its associated infrastructure. The approach involves identifying the source of the hazard, the pathway by which the hazard is likely to be transmitted, and the receptor that is likely to be exposed to the hazard. The potential pathways identified are summarised in Table 2.

Table 2: Summary of Potentially Complete Exposure Pathways

Source and COPC	Transport Pathway	Receptor	Risk Management Action
Soil and Roadside Drains PAHs and PCBs Soil and Roadside Drains PAHs and PCBs Soil and Roadside Drains PAHs and PCBs	Soil and Roadside Drains PAHs and PCBs Soil and Roadside Drains PAHs and PCBs Soil and Roadside Drains PAHs and PCBs	Roadside Drains Roadside Drains Roadside Drains Roadside Drains Roadside Drains Roadside Drains	Identify the potential pathways Identify the potential pathways Identify the potential pathways Identify the potential pathways Identify the potential pathways Identify the potential pathways

Source and COPC	Transport Pathway	Receptor	Risk Management Action
and surrounding site area residuals pesticides and PPPs and herbicides and Soil contamination from old buildings asbestos SM and old paint and Pb Soil and groundwater pollution and old buildings residuals PAHs and phosphates	Potential pathways for contaminants	Receptor area residuals and rock with suspensions present in the air and soil and the site Receptor area Residuals and PPPs and herbicides	soil and site. An investigation is required to assess possible contamination including testing the soil and groundwater.

9. Conclusions and Recommendations

The results of the desktop investigation and site walkover identified that the site and surrounds have a history of agricultural use and likely of agricultural activities since at least 1900. The site is located in a rural area and the surrounding area is largely rural. The site is located in a rural area and the surrounding area is largely rural. The site is located in a rural area and the surrounding area is largely rural.

The following PA and potential sources of contamination were identified from the PSI desktop investigation and site walkover and are shown on Drawing Appendix A.

- PA and potential sources of contamination observed as the residential area is located in a rural area and the surrounding area is largely rural. The site is located in a rural area and the surrounding area is largely rural.
- PA and potential sources of contamination observed as the residential area is located in a rural area and the surrounding area is largely rural. The site is located in a rural area and the surrounding area is largely rural.

- PA of Potential contamination observed sites as the result of historic and ongoing activities and present day practices
- PA of Potential contamination from road construction activities and sheds containing hazardous building materials such as asbestos and SMCO
- PA of Potential contamination observed sites in the north west portion of Site as the result of known materials being produced, processed, stored and disposed, as well as a dump, leached and detached to the ground.

This PA of Potential contamination associated with the above sources is generally considered to be low to medium. Further assessment of the proposed investigation is required to assess the potential contamination and to ensure that other additional potential sources are identified on site.

In the event that contamination associated with these potential sources is present, the site is likely to be treated and remediated as a result of the investigation through appropriate approaches. It is considered that the site can be addressed for the proposed development without investigation and subsequent remediation.

In response to site contamination the recommended further assessment should be the investigation provided in this report with reference to the proposed development. The proposed development is a proposed development. The proposed development is a proposed development. The proposed development is a proposed development.

10. References

PA. National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]. Australia Government Publishing Services Canberra, Australia. Canberra, Australia.

SA. PA. Guidelines for Consultants Reporting on Contaminated Land. Australian and Guidelines for the Environment. Canberra, Australia.

11. Limitations

Douglas Partners (DP) has prepared this report for services for this project as a DP and Lots 36A & 37 DP8979, Leppington in accordance with DP's proposal dated 11 August 2011 and approved by the David Hume. The work was carried out under DP's Conditions of engagement. This report is provided for the purpose of the above development and for the purposes as described in the report. It should not be used for other purposes or purposes of the site or other site or a third party. Any person relying on this report is doing so at their own risk and with the understanding that DP is not responsible for any loss or damage. In preparing this report DP has necessarily relied on information provided to the client and their agents.

DP's advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by DP in this report is an assessment of the variability in ground conditions across the site and the quality of the sampling and testing methods. The advice is also based on the understanding raised in respect of others or on site assessment.

The assessment of typical safety hazards arising from this advice is restricted to the information on ground and the parameters shown in this report based on known parameters and standard design advice and assumptions. If a more detailed assessment or safety assessment is provided, detailed 'safety in design' assessment is outside the current scope of this report and requires additional parameters and assessment.

This report is to be read in conjunction with a further attached and should be kept as a single unit with separate individual pages or sections. DP cannot be held responsible for interpretations or omissions made by others unless they are supported by a expressed statement or interpretation of the omissions made in this report.

This report and sections from this report should not be used as part of a specification or a project with any other and agreed by DP. This is because this report has been created as advice and opinion rather than a specification or a contract.

Douglas Partners Pty Ltd

Appendix A

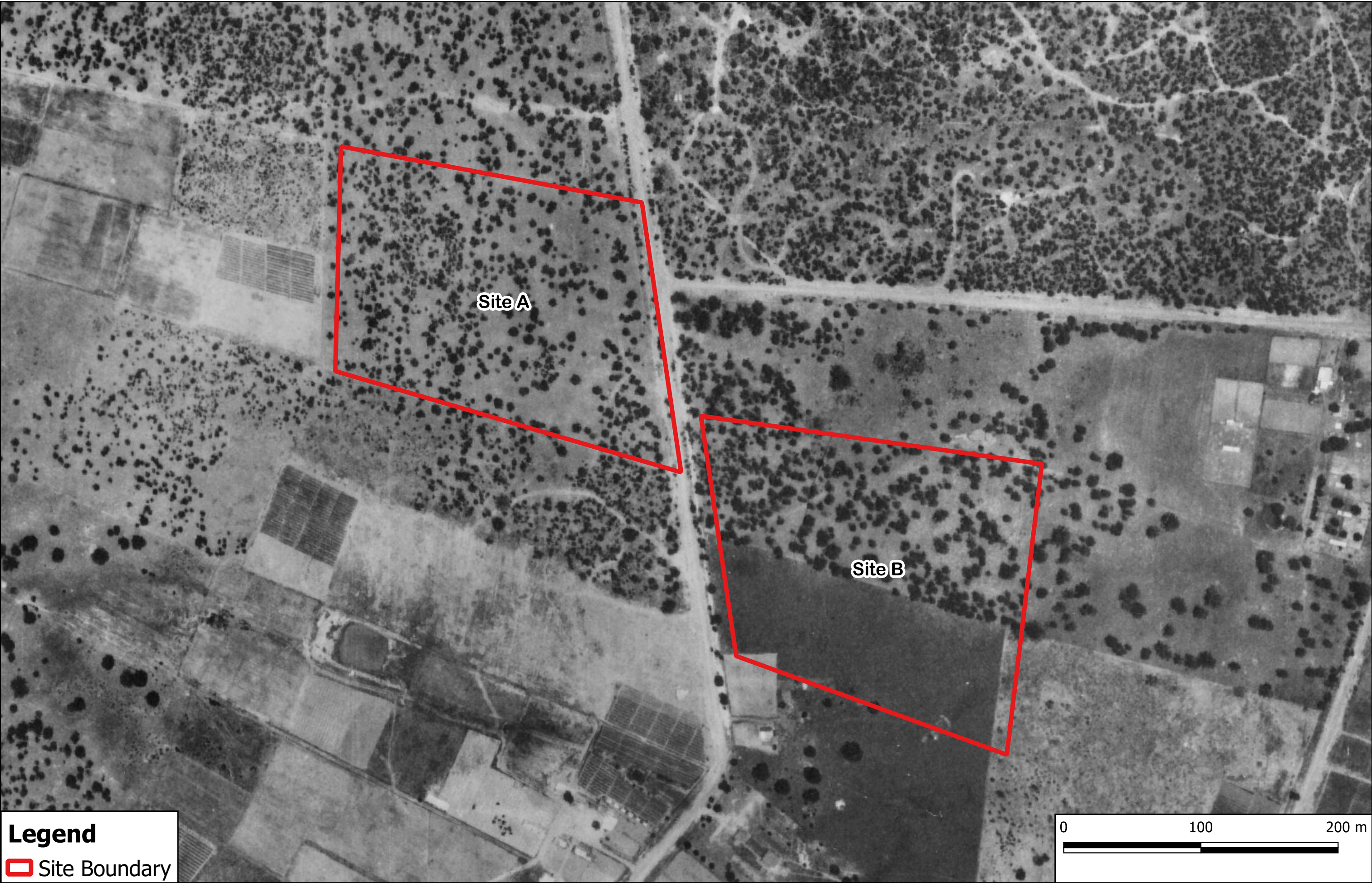
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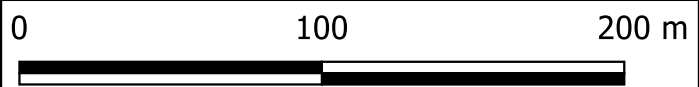
▮ Site Boundary

— Property Boundary

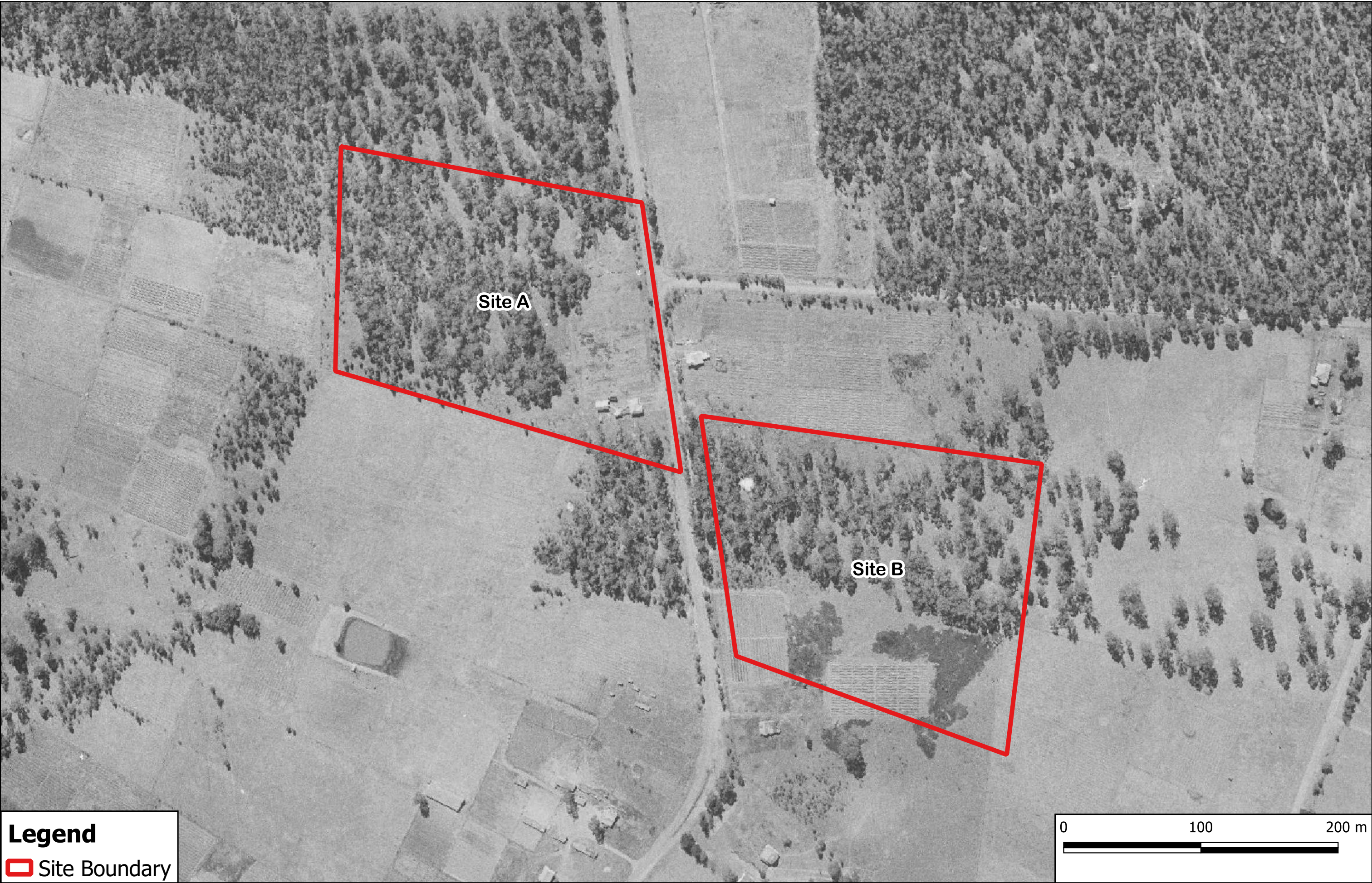


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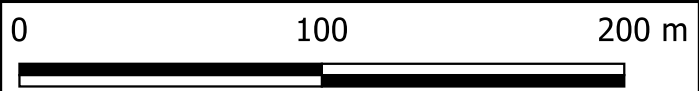


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	SCALE: As shown	DATE: 05.10.2022			REVISION: 0

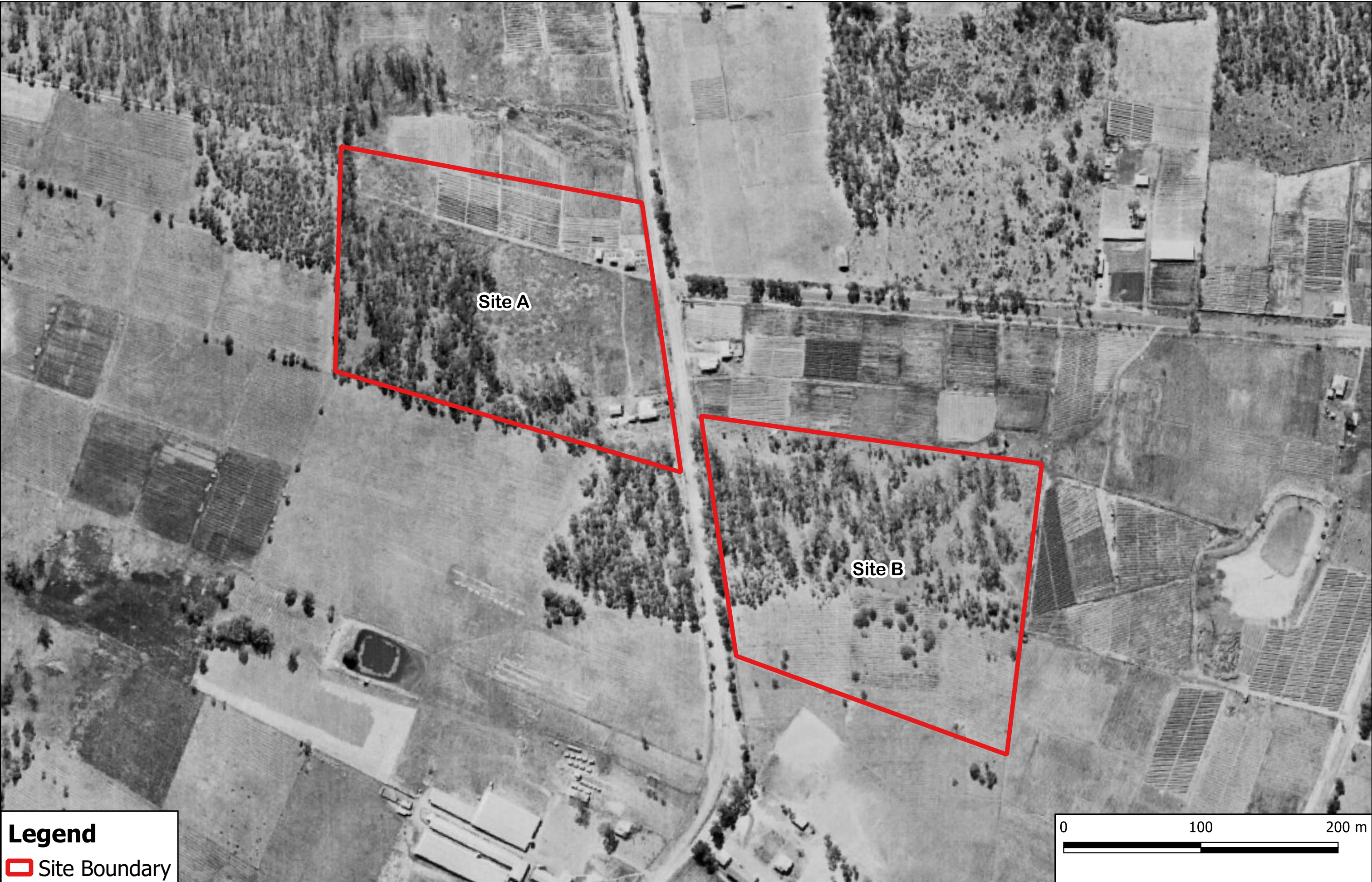


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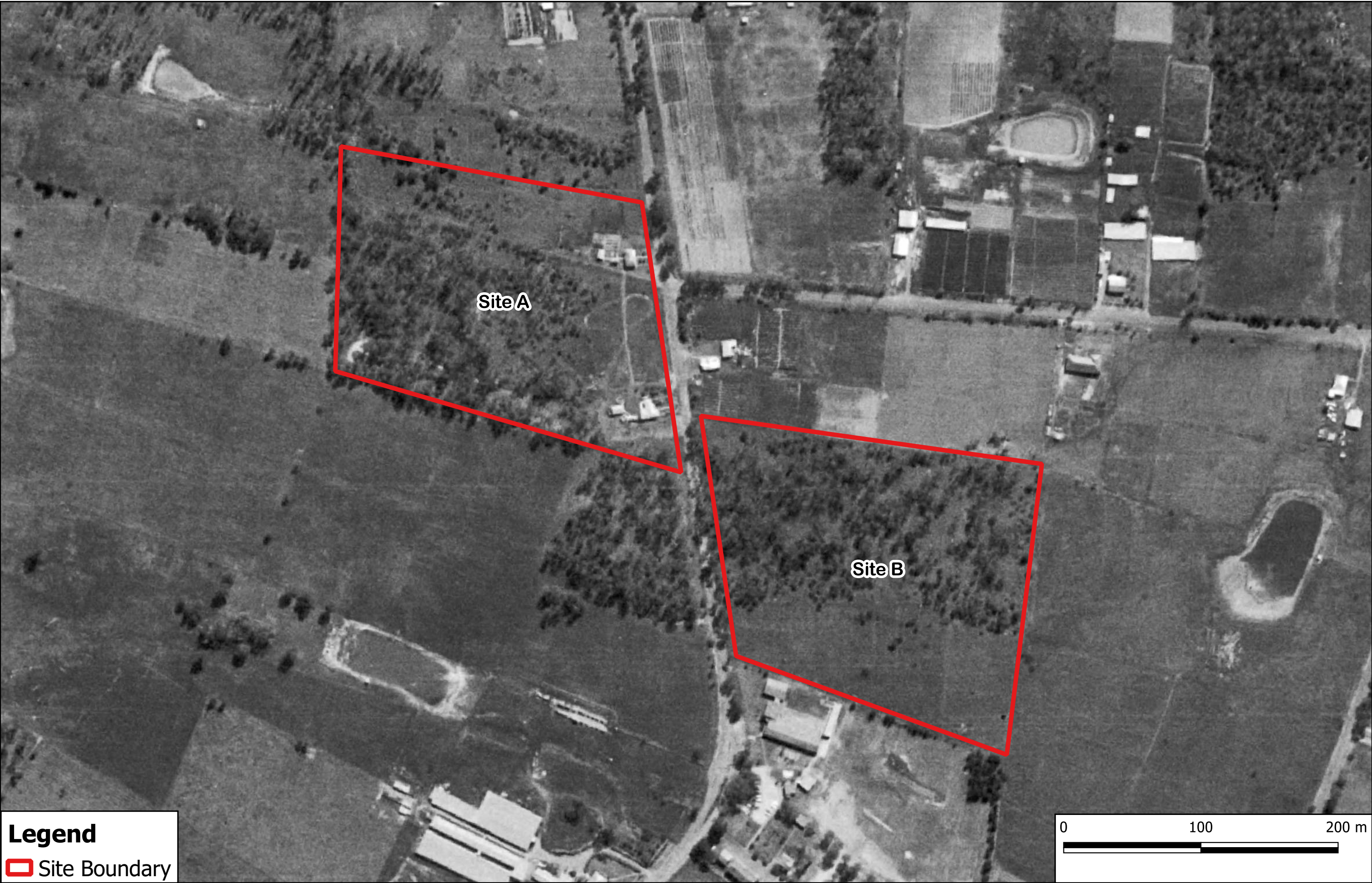
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	OFFICE: Macarthur	DRAWN BY: AJ			DRAWING No: 3
	SCALE: As shown	DATE: 05.10.2022			REVISION: 0



Legend

 Site Boundary

 Douglas Partners <i>Geotechnics Environment Groundwater</i>	CLIENT: Aland Developments		TITLE: Historical Aerial Photograph - 1965 Preliminary Site Investigation (Contamination) Proposed Residential Subdivision 156, 166, 173 & 183 Rickard Road, Leppington NSW		PROJ. #: 217600.00
	OFFICE: Macarthur	DRAWN BY: AJ			DRAWING No: 4
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Legend

 Site Boundary

 Douglas Partners <i>Geotechnics Environment Groundwater</i>	CLIENT: Aland Developments		TITLE: Historical Aerial Photograph - 1975 Preliminary Site Investigation (Contamination) Proposed Residential Subdivision 156, 166, 173 & 183 Rickard Road, Leppington NSW		PROJ. #: 217600.00
	OFFICE: Macarthur	DRAWN BY: AJ			DRAWING No: 5
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Legend

 Site Boundary

 Douglas Partners <i>Geotechnics Environment Groundwater</i>	CLIENT: Aland Developments		TITLE: Historical Aerial Photograph - 1984 Preliminary Site Investigation (Contamination) Proposed Residential Subdivision 156, 166, 173 & 183 Rickard Road, Leppington NSW	 MGA	PROJ. #: 217600.00
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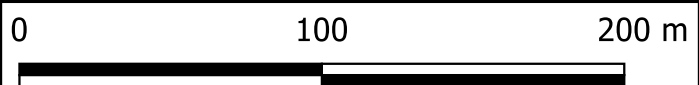
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 Douglas Partners <i>Geotechnics Environment Groundwater</i>	CLIENT: Aland Developments		TITLE: Historical Aerial Photograph - 1991 Preliminary Site Investigation (Contamination) Proposed Residential Subdivision 156, 166, 173 & 183 Rickard Road, Leppington NSW	 MGA	PROJ. #: 217600.00
	OFFICE: Macarthur	DRAWN BY: AJ			DRAWING No: 7
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Legend

 Site Boundary



 Douglas Partners <i>Geotechnics Environment Groundwater</i>	CLIENT: Aland Developments		TITLE: Historical Aerial Photograph - 1998 Preliminary Site Investigation (Contamination) Proposed Residential Subdivision 156, 166, 173 & 183 Rickard Road, Leppington NSW		PROJ. #: 217600.00
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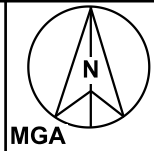
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 Site Boundary



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OFFICE: Macarthur	DRAWN BY: AJ
SCALE: As shown	DATE: 05.10.2022

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Preliminary Site Investigation (Contamination)
Proposed Residential Subdivision
156, 166, 173 & 183 Rickard Road, Leppington NSW

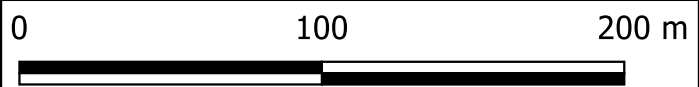


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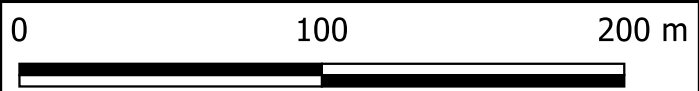


 Douglas Partners <i>Geotechnics Environment Groundwater</i>	CLIENT: Aland Developments		TITLE: Historical Aerial Photograph - 2011 Preliminary Site Investigation (Contamination) Proposed Residential Subdivision 156, 166, 173 & 183 Rickard Road, Leppington NSW		PROJ. #: 217600.00
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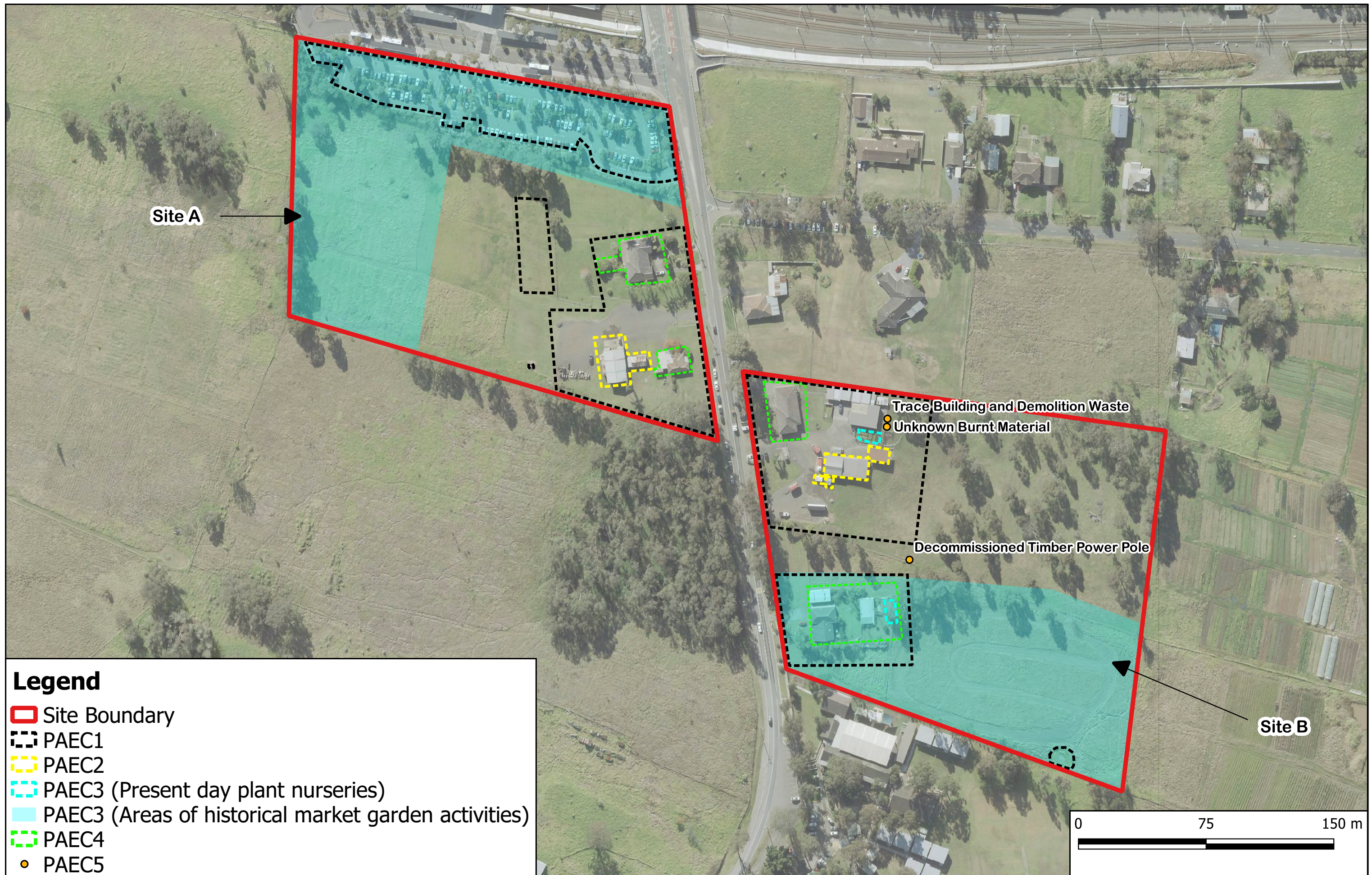


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 Douglas Partners <i>Geotechnics Environment Groundwater</i>	CLIENT: Aland Developments		TITLE: Historical Aerial Photograph - 2016 Preliminary Site Investigation (Contamination) Proposed Residential Subdivision 156, 166, 173 & 183 Rickard Road, Leppington NSW	 MGA	PROJ. #: 217600.00
	OFFICE: Macarthur	DRAWN BY: AJ			DRAWING No: 11
	SCALE: As shown	DATE: 05.10.2022			REVISION: 0



Appendix B

Appendix B
A Appendix B
his Report

About this Report

Douglas Partners



Introduction

These reports have been provided in a plain DP's report in regard to classification methods and procedures and the test results section. Some are necessary to read all reports.

DP's reports are based on information gained from field observations, calculations and sampling. Some are known to be accurate and others are regarded as interpretation rather than a final decision. It is the user's responsibility to use the reports in which they are

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This report is the property of Douglas Partners Pte Ltd. The report and its contents are used for the purpose for which it was prepared and in accordance with the conditions of engagement or the conditions supplied at the time of preparation. No other use of this report is allowed without the written consent of Douglas Partners Pte Ltd.

Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions and their relation to the design of the structure. It is the user's responsibility to ensure that the logs are used for the purpose for which they were prepared. It is the user's responsibility to ensure that the logs are used for the purpose for which they were prepared. It is the user's responsibility to ensure that the logs are used for the purpose for which they were prepared.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the accuracy of the logs and the possibility of other factors such as variations in the soil conditions.

Groundwater

Where groundwater levels are measured in boreholes there are some potential problems that can arise.

- In the preliminary site groundwater level, the level may be different or perhaps increased during the time the hole is being drilled.

- A detailed report of the level of the water table is an indication of the level of the water table.
- The level of the water table may be different from the level of the water table in the soil or in the rock. The level of the water table in the soil is the level of the water table in the soil as indicated in the report and
- The level of the water table may be different from the level of the water table in the soil or in the rock. The level of the water table in the soil is the level of the water table in the soil as indicated in the report and

More reliable measurements can be made by installing standpipes which are read at intervals over several days or perhaps weeks or by permanent sites. Piezometers should be a particular source of data to add to the permanent sites or where there are no piezometers a piezometer can be installed.

Reports

The report has been prepared on the basis of the information obtained from the field and laboratory testing and has been prepared in accordance with the standards of interpretation and analysis. Where the report has been prepared for a specific design purpose, the information and interpretation are based on the design proposals. If the design proposals change, then the report should be revised to reflect the new design proposals.

Where care is taken with the report as it relates to interpretation, the user should be aware of the limitations of the report and the user should be aware of the limitations of the report and the user should be aware of the limitations of the report.

- The report is based on the information obtained from the field and laboratory testing and has been prepared in accordance with the standards of interpretation and analysis.
- The report is based on the information obtained from the field and laboratory testing and has been prepared in accordance with the standards of interpretation and analysis.
- The report is based on the information obtained from the field and laboratory testing and has been prepared in accordance with the standards of interpretation and analysis.

In this case, DP has been prepared to assist with investigations or advice on the design of the structure.

About this Report

Site Anomalies

If the conditions encountered on site during construction appear to be one of those which are expected from the information contained in the report DP records that it is in a diametric condition. Most problems are both more readily resolved when conditions are exposed rather than as a result of a significant amount of work.

Information for Contractual Purposes

Where information contained in this report is provided for engineering purposes it is recommended that a written statement of the original report and discussion be made available. In discussions where the discussion or the results of the investigation is considered to be a significant situation it may be appropriate to prepare a special edited document. DP records are provided to assist in this regard and to make additional reports available for contractual purposes and for the charge.

Site Inspection

The inspection details are provided to provide engineering inspection services for geological and structural aspects of work in which this report is related. This work ranges from a site visit to ensure that conditions exposed are as expected in the engineering process of site.

Appendix C

Photographic Plates



Phograph arg ashd sd as a garq or rick ai a and repairs ai ig ior dia k
ai ors d d ad s a or ms a d th i a s r ag



Photograph of Septic tank located in the easement area of Site A.



Photograph of Rubbish debris that washed and various machine parts were aligned along the southern easement boundary of Site A.



Photograph of the stockpile located in the south easement area of Site A.



Photograph of the Stockpile located in the south easement area of Site A.



Photograph of Hoses and sheds in north east corner of Site opposite main building A.M.



Photograph of Hoses and sheds in south east corner of Site opposite main building A.M.



Photograph of Sheds in south of site property of Site of potential contamination.



Photograph of a shed used as a garage for work and storage of equipment and materials and other items.



Photograph 01 A portable toilet unit located at the site of the investigation. The unit is a white, rectangular structure with a control panel and a black hose. It is situated on a gravel surface next to a building.



Photograph 02 A portable toilet unit located at the site of the investigation. The unit is a white, rectangular structure with a control panel and a black hose. It is situated on a gravel surface next to a building.



Photograph of Drilling site with clear rock outcrop and a dish.



Photograph of Drilling site with clear rock outcrop and a dish.



Photograph 000A: Large rectangular metallic gas cylinder identified in the north east area of Site 0.

-



Photograph 000S: A vegetable garden which indicated potential for possible contamination and a shaded area which indicates other chemical substances as observed in the north east portion of Site 0.



Photograph 01 Grass cover with increased height and a deeper green pigmentation as a result of the application of the site pack to Site 1.

-



Photograph 02 Grassed disturbance in the north eastern area of the site where blacktop areas appeared to have been produced over.



Photograph of brick and concrete pipe exposed in the north corner portion of Site 1.

-



Photograph of brick exposed in the north corner portion of Site 1.





Phograph and skip in the rhasp rSi.

—



Photograph of Pressed in our sample is shown in the case of printing. See.



Photograph of a fallen log which has been cut from the ground and is lying horizontally in the north-east area of Site 1.

-



Photograph of a fallen log which has been cut from the ground and is lying horizontally in the north-east area of Site 1.



Photograph 01 Scrap metal pile as identified in the Casero area Site 0.

-



Photograph 02 Ground disturbance as a result of riding activities as appeared in the southern portion.



Phonograph S&S apparatus recording the growth tips. Priok Par plots indicating position of sagittid found in the south sector portion of Sim.



Phograph Saar da sardag h s h r d i h s h as r r r Si .



Photograph of carpark north of the site

-



Photograph of carpark north of the site

APPENDIX 3

Environmental Consulting Services
10 Fort Street
Petersham
NSW 2049



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: **All results - Simon Caples**

Report **1100135-S**
Project name **LEPPINGTON - SITE A**
Received Date **May 21, 2024**

Client Sample ID			AA1	AA2	AA3	AB1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-My0063889	S24-My0063890	S24-My0063891	S24-My0063892
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	27	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	150	< 50	< 50	76
TRH C29-C36	50	mg/kg	400	68	< 50	69
TRH C10-C36 (Total)	50	mg/kg	577	68	< 50	145
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	430	120	< 100	130
TRH >C34-C40	100	mg/kg	430	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	860	120	< 100	130
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	%	102	101	57	121
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

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AA1 Soil S24- My0063889 May 20, 2024	AA2 Soil S24- My0063890 May 20, 2024	AA3 Soil S24- My0063891 May 20, 2024	AB1 Soil S24- My0063892 May 20, 2024
Polycyclic Aromatic Hydrocarbons						
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	%	84	65	95	127
p-Terphenyl-d14 (surr.)	1	%	88	65	103	129
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
α-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
β-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
δ-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
γ-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 10	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	INT	57	88	108
Tetrachloro-m-xylene (surr.)	1	%	84	62	97	INT
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 5	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AA1 Soil S24-My0063889 May 20, 2024	AA2 Soil S24-My0063890 May 20, 2024	AA3 Soil S24-My0063891 May 20, 2024	AB1 Soil S24-My0063892 May 20, 2024
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 5	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 5	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	64	71	101	117
Heavy Metals						
Arsenic	2	mg/kg	10	9.3	8.0	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	17	17	21
Copper	5	mg/kg	21	16	22	21
Lead	5	mg/kg	21	20	26	17
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	12	8.9	9.6
Zinc	5	mg/kg	55	49	65	51
Sample Properties						
% Moisture	1	%	17	16	16	11

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AB2 Soil S24-My0063893 May 20, 2024	AB3 Soil S24-My0063894 May 20, 2024	AB4 Soil S24-My0063895 May 20, 2024	AB5 Soil S24-My0063896 May 20, 2024
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	74	100	190	< 50
TRH C29-C36	50	mg/kg	< 50	190	120	120
TRH C10-C36 (Total)	50	mg/kg	74	290	310	120

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AB2 Soil S24- My0063893 May 20, 2024	AB3 Soil S24- My0063894 May 20, 2024	AB4 Soil S24- My0063895 May 20, 2024	AB5 Soil S24- My0063896 May 20, 2024
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	110	230	250	110
TRH >C34-C40	100	mg/kg	< 100	230	110	< 100
TRH >C10-C40 (total)*	100	mg/kg	110	460	360	110
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	%	66	112	71	144
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	0.6	< 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	0.6	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	84	77	100	61
p-Terphenyl-d14 (surr.)	1	%	73	76	106	84
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	0.33	< 0.5	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AB2 Soil S24- My0063893 May 20, 2024	AB3 Soil S24- My0063894 May 20, 2024	AB4 Soil S24- My0063895 May 20, 2024	AB5 Soil S24- My0063896 May 20, 2024
Organochlorine Pesticides						
d-HCH	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 10	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	0.33	< 0.5	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.33	< 1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	62	53	83	83
Tetrachloro-m-xylene (surr.)	1	%	90	83	103	80
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 5	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 5	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 5	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2

Client Sample ID			AB2	AB3	AB4	AB5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-My0063893	S24-My0063894	S24-My0063895	S24-My0063896
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Pyrazophos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	70	72	104	96
Heavy Metals						
Arsenic	2	mg/kg	6.8	2.2	4.1	4.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	25	16	12	21
Copper	5	mg/kg	30	36	12	15
Lead	5	mg/kg	31	17	16	21
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	28	33	5.6	14
Zinc	5	mg/kg	82	52	40	49
Sample Properties						
% Moisture	1	%	18	3.5	24	26
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	19	-

Client Sample ID			AC1	AC2	AC3	AC4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-My0063897	S24-My0063898	S24-My0063899	S24-My0063900
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
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	110	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	120	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	230	< 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	200	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	110	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	310	< 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	%	72	78	111	93

Client Sample ID			AC1	AC2	AC3	AC4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-My0063897	S24-My0063898	S24-My0063899	S24-My0063900
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
Test/Reference	LOR	Unit				
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	%	82	80	128	133
p-Terphenyl-d14 (surr.)	1	%	80	75	121	145
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	0.07	< 0.5	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	0.07	< 0.5	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	0.05	< 0.5	< 0.05	< 0.05
α-HCH	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
β-HCH	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
δ-HCH	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	0.11	< 0.5	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	0.07	< 0.5	< 0.05	< 0.05
Endrin	0.05	mg/kg	0.05	< 0.5	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	0.05	< 0.5	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	0.12	< 0.5	< 0.05	< 0.05
γ-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	0.09	< 0.5	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 10	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.5	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	0.19	< 0.5	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.56	< 1	< 0.1	< 0.1

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AC1 Soil S24- My0063897 May 20, 2024	AC2 Soil S24- My0063898 May 20, 2024	AC3 Soil S24- My0063899 May 20, 2024	AC4 Soil S24- My0063900 May 20, 2024
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	0.37	< 1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	76	67	105	124
Tetrachloro-m-xylene (surr.)	1	%	92	86	122	134
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 5	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 5	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 5	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.5	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	89	59	119	141
Heavy Metals						
Arsenic	2	mg/kg	15	9.8	25	8.4
Cadmium	0.4	mg/kg	0.5	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	17	14	15
Copper	5	mg/kg	65	20	19	23
Lead	5	mg/kg	37	18	48	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	12	12	8.8
Zinc	5	mg/kg	140	39	26	54
Sample Properties						
% Moisture	1	%	25	17	15	26

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AC5 Soil S24- My0063901 May 20, 2024	AD1 Soil S24- My0063902 May 20, 2024	AD2 Soil S24- My0063903 May 20, 2024	AD3 Soil S24- My0063904 May 20, 2024
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	21	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	58	< 50	< 50	52
TRH C29-C36	50	mg/kg	120	90	77	120
TRH C10-C36 (Total)	50	mg/kg	199	90	77	172
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	130	< 100	< 100	150
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	100
TRH >C10-C40 (total)*	100	mg/kg	130	< 100	< 100	250
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	%	78	56	59	63
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	%	64	78	75	147
p-Terphenyl-d14 (surr.)	1	%	65	75	73	135

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AC5 Soil S24- My0063901 May 20, 2024	AD1 Soil S24- My0063902 May 20, 2024	AD2 Soil S24- My0063903 May 20, 2024	AD3 Soil S24- My0063904 May 20, 2024
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 10	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 1	< 0.1
Dibutylchloredate (surr.)	1	%	67	71	INT	118
Tetrachloro-m-xylene (surr.)	1	%	63	90	81	146
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 5	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AC5 Soil S24- My0063901 May 20, 2024	AD1 Soil S24- My0063902 May 20, 2024	AD2 Soil S24- My0063903 May 20, 2024	AD3 Soil S24- My0063904 May 20, 2024
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 5	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 5	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.5	< 0.2
Triphenylphosphate (surr.)	1	%	78	78	61	124
Heavy Metals						
Arsenic	2	mg/kg	15	16	4.9	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	15	11	11
Copper	5	mg/kg	25	17	17	18
Lead	5	mg/kg	19	16	23	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	12	13	6.8
Zinc	5	mg/kg	46	62	43	63
Sample Properties						
% Moisture	1	%	24	16	12	21
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	-	14

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AD4 Soil S24- My0063905 May 20, 2024	AD5 Soil S24- My0063906 May 20, 2024	AE1 Soil S24- My0063907 May 20, 2024	AE2 Soil S24- My0063908 May 20, 2024
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	110
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	110
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	110
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	110

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AD4 Soil S24- My0063905 May 20, 2024	AD5 Soil S24- My0063906 May 20, 2024	AE1 Soil S24- My0063907 May 20, 2024	AE2 Soil S24- My0063908 May 20, 2024
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	%	108	66	120	INT
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	%	127	79	85	88
p-Terphenyl-d14 (surr.)	1	%	132	81	103	96
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			AD4	AD5	AE1	AE2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-My0063905	S24-My0063906	S24-My0063907	S24-My0063908
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	114	81	91	80
Tetrachloro-m-xylene (surr.)	1	%	124	92	99	95
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	134	93	108	94

Client Sample ID			AD4	AD5	AE1	AE2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-My0063905	S24-My0063906	S24-My0063907	S24-My0063908
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	21	23	7.5	14
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	18	23	14	26
Copper	5	mg/kg	21	24	15	28
Lead	5	mg/kg	15	25	12	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	13	< 5	12
Zinc	5	mg/kg	47	48	22	70
Sample Properties						
% Moisture	1	%	16	17	1.2	23

Client Sample ID			AE3	AE4	AE5	AF1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-My0063909	S24-My0063910	S24-My0063911	S24-My0063912
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	23	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	50	55	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	50	78	< 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	%	117	108	98	125
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

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AE3 Soil S24- My0063909 May 20, 2024	AE4 Soil S24- My0063910 May 20, 2024	AE5 Soil S24- My0063911 May 20, 2024	AF1 Soil S24- My0063912 May 20, 2024
Polycyclic Aromatic Hydrocarbons						
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	%	97	133	128	77
p-Terphenyl-d14 (surr.)	1	%	99	120	131	73
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	0.11	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
α-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
β-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
δ-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
γ-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	0.11	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.11	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	96	104	131	62
Tetrachloro-m-xylene (surr.)	1	%	97	139	126	75
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AE3 Soil S24- My0063909 May 20, 2024	AE4 Soil S24- My0063910 May 20, 2024	AE5 Soil S24- My0063911 May 20, 2024	AF1 Soil S24- My0063912 May 20, 2024
Organophosphorus Pesticides						
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	107	123	140	75
Heavy Metals						
Arsenic	2	mg/kg	11	11	7.2	19
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	21	19	28
Copper	5	mg/kg	29	26	28	27
Lead	5	mg/kg	21	24	22	28
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	13	14	12
Zinc	5	mg/kg	66	59	61	60
Sample Properties						
% Moisture	1	%	21	21	18	20
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	11	-	-	17

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AF2 Soil S24- My0063913 May 20, 2024	AF3 Soil S24- My0063914 May 20, 2024	AF4 Soil S24- My0063915 May 20, 2024	AF5 Soil S24- My0063916 May 20, 2024
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	%	60	81	64	INT
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	127	101	130
p-Terphenyl-d14 (surr.)	1	%	73	131	100	136

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AF2 Soil S24- My0063913 May 20, 2024	AF3 Soil S24- My0063914 May 20, 2024	AF4 Soil S24- My0063915 May 20, 2024	AF5 Soil S24- My0063916 May 20, 2024
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloredate (surr.)	1	%	66	129	91	126
Tetrachloro-m-xylene (surr.)	1	%	77	126	97	130
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AF2 Soil S24- My0063913 May 20, 2024	AF3 Soil S24- My0063914 May 20, 2024	AF4 Soil S24- My0063915 May 20, 2024	AF5 Soil S24- My0063916 May 20, 2024
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	80	137	107	137
Heavy Metals						
Arsenic	2	mg/kg	9.1	10	15	20
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	16	19	24
Copper	5	mg/kg	22	25	30	28
Lead	5	mg/kg	16	20	20	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.4	11	12	18
Zinc	5	mg/kg	45	56	64	63
Sample Properties						
% Moisture	1	%	22	23	23	16

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AG1 Soil S24- My0063917 May 20, 2024	AG2 Soil S24- My0063918 May 20, 2024	AG3 Soil S24- My0063919 May 20, 2024	AG4 Soil S24- My0063920 May 20, 2024
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

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AG1 Soil S24- My0063917 May 20, 2024	AG2 Soil S24- My0063918 May 20, 2024	AG3 Soil S24- My0063919 May 20, 2024	AG4 Soil S24- My0063920 May 20, 2024
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	%	73	92	INT	67
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	%	124	126	96	92
p-Terphenyl-d14 (surr.)	1	%	128	128	125	100
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AG1 Soil S24- My0063917 May 20, 2024	AG2 Soil S24- My0063918 May 20, 2024	AG3 Soil S24- My0063919 May 20, 2024	AG4 Soil S24- My0063920 May 20, 2024
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	114	118	126	84
Tetrachloro-m-xylene (surr.)	1	%	123	123	122	91
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	130	133	132	95

Client Sample ID			AG1	AG2	AG3	AG4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-My0063917	S24-My0063918	S24-My0063919	S24-My0063920
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	12	15	12	10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	28	21	20
Copper	5	mg/kg	15	24	21	22
Lead	5	mg/kg	21	27	24	20
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.2	12	8.6	12
Zinc	5	mg/kg	27	54	45	74
Sample Properties						
% Moisture	1	%	25	20	21	19

Client Sample ID			AG5	AH1	AH2	AH3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-My0063921	S24-My0063922	S24-My0063923	S24-My0063924
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
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	%	52	INT	INT	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

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AG5 Soil S24- My0063921 May 20, 2024	AH1 Soil S24- My0063922 May 20, 2024	AH2 Soil S24- My0063923 May 20, 2024	AH3 Soil S24- My0063924 May 20, 2024
Polycyclic Aromatic Hydrocarbons						
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	%	95	95	95	77
p-Terphenyl-d14 (surr.)	1	%	96	98	99	73
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	86	79	83	65
Tetrachloro-m-xylene (surr.)	1	%	94	94	93	73
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AG5 Soil S24- My0063921 May 20, 2024	AH1 Soil S24- My0063922 May 20, 2024	AH2 Soil S24- My0063923 May 20, 2024	AH3 Soil S24- My0063924 May 20, 2024
Organophosphorus Pesticides						
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	99	96	96	77
Heavy Metals						
Arsenic	2	mg/kg	12	16	13	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	29	23	25
Copper	5	mg/kg	29	17	20	29
Lead	5	mg/kg	24	21	23	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	7.8	10	13
Zinc	5	mg/kg	64	28	34	58
Sample Properties						
% Moisture	1	%	22	20	29	24
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	14	-	-	-

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AH4 Soil S24- My0063925 May 20, 2024	AH5 Soil S24- My0063926 May 20, 2024	AI1 Soil S24- My0063927 May 20, 2024	AI2 Soil S24- My0063928 May 20, 2024
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	%	92	79	51	INT
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	%	64	57	92	80
p-Terphenyl-d14 (surr.)	1	%	65	60	93	69

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AH4 Soil S24- My0063925 May 20, 2024	AH5 Soil S24- My0063926 May 20, 2024	AI1 Soil S24- My0063927 May 20, 2024	AI2 Soil S24- My0063928 May 20, 2024
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	63	65	82	85
Tetrachloro-m-xylene (surr.)	1	%	67	61	91	76
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AH4 Soil S24-My0063925 May 20, 2024	AH5 Soil S24-My0063926 May 20, 2024	AI1 Soil S24-My0063927 May 20, 2024	AI2 Soil S24-My0063928 May 20, 2024
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	74	71	91	90
Heavy Metals						
Arsenic	2	mg/kg	12	7.5	14	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	15	24	22
Copper	5	mg/kg	30	24	23	24
Lead	5	mg/kg	29	21	27	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	11	11	11
Zinc	5	mg/kg	69	52	46	53
Sample Properties						
% Moisture	1	%	27	29	21	30
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	-	21

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AI3 Soil S24-My0063929 May 20, 2024	AI4 Soil S24-My0063930 May 20, 2024	AI5 Soil S24-My0063931 May 20, 2024	DA1 Soil S24-My0063932 May 20, 2024
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

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AI3 Soil S24- My0063929 May 20, 2024	AI4 Soil S24- My0063930 May 20, 2024	AI5 Soil S24- My0063931 May 20, 2024	DA1 Soil S24- My0063932 May 20, 2024
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	%	107	87	97	102
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	%	80	55	79	81
p-Terphenyl-d14 (surr.)	1	%	83	52	77	76
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	AI3 Soil S24- My0063929 May 20, 2024	AI4 Soil S24- My0063930 May 20, 2024	AI5 Soil S24- My0063931 May 20, 2024	DA1 Soil S24- My0063932 May 20, 2024
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloredate (surr.)	1	%	81	58	89	92
Tetrachloro-m-xylene (surr.)	1	%	87	51	75	76
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	74	55	82	85

Client Sample ID			AI3	AI4	AI5	DA1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-My0063929	S24-My0063930	S24-My0063931	S24-My0063932
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	8.9	11	8.4	9.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	22	17	18
Copper	5	mg/kg	25	23	22	20
Lead	5	mg/kg	21	24	19	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	10	9.3	9.4
Zinc	5	mg/kg	50	46	37	40
Sample Properties						
% Moisture	1	%	20	38	23	17
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	12	-

Client Sample ID			DA2	DA3	DA4	SPIKE
Sample Matrix			Soil	Soil	Soil	Trip Spike (solid)
Eurofins Sample No.			S24-My0063933	S24-My0063934	S24-My0063935	S24-My0063936
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
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	79	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	79	< 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	%	121	98	62	-
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	-

Client Sample ID			DA2	DA3	DA4	SPIKE
Sample Matrix			Soil	Soil	Soil	Trip Spike (solid)
Eurofins Sample No.			S24-My0063933	S24-My0063934	S24-My0063935	S24-My0063936
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	77	93	59	-
p-Terphenyl-d14 (surr.)	1	%	74	80	51	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
α-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
β-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
δ-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
γ-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	86	80	54	-
Tetrachloro-m-xylene (surr.)	1	%	74	85	56	-

Client Sample ID			DA2	DA3	DA4	SPIKE
Sample Matrix			Soil	Soil	Soil	Trip Spike (solid)
Eurofins Sample No.			S24-My0063933	S24-My0063934	S24-My0063935	S24-My0063936
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Coumaphos	2	mg/kg	< 2	< 2	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Monocrotophos	2	mg/kg	< 2	< 2	< 2	-
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Omethoate	2	mg/kg	< 2	< 2	< 2	-
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Triphenylphosphate (surr.)	1	%	81	83	53	-
Heavy Metals						
Arsenic	2	mg/kg	12	18	6.4	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	20	32	15	-
Copper	5	mg/kg	22	14	23	-
Lead	5	mg/kg	20	16	18	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	7.2	10	8.2	-
Zinc	5	mg/kg	36	27	42	-
Sample Properties						
% Moisture	1	%	20	16	25	-
TRH C6-C10	1	%	-	-	-	99

Client Sample ID			DA2	DA3	DA4	SPIKE
Sample Matrix			Soil	Soil	Soil	Trip Spike (solid)
Eurofins Sample No.			S24-My0063933	S24-My0063934	S24-My0063935	S24-My0063936
Date Sampled			May 20, 2024	May 20, 2024	May 20, 2024	May 20, 2024
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
Naphthalene	1	%	-	-	-	100
TRH C6-C9	1	%	-	-	-	98
BTEX						
Benzene	1	%	-	-	-	100
Ethylbenzene	1	%	-	-	-	97
m&p-Xylenes	1	%	-	-	-	99
o-Xylene	1	%	-	-	-	77
Toluene	1	%	-	-	-	97
Xylenes - Total	1	%	-	-	-	85
4-Bromofluorobenzene (surr.)	1	%	-	-	-	70

Client Sample ID			BLANK
Sample Matrix			Trip Blank (solid)
Eurofins Sample No.			S24-My0063937
Date Sampled			May 20, 2024
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	87
BTEX and Naphthalene			
Naphthalene ^{N02}	0.5	mg/kg	< 0.5

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	May 29, 2024	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	May 29, 2024	14 Days
Total Recoverable Hydrocarbons - Method: LTM-ORG-2010 TRH C6-C40	Sydney	May 28, 2024	14 Days
BTEX - Method: LTM-ORG-2010 BTEX and Volatile TRH	Sydney	May 29, 2024	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	May 29, 2024	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	May 29, 2024	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	May 29, 2024	14 Days
Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS	Sydney	May 29, 2024	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	May 29, 2024	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	May 23, 2024	14 Days
Conductivity (1:5 aqueous extract at 25 °C as rec.) - Method: LTM-INO-4030 Conductivity	Sydney	May 29, 2024	7 Days



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ABN: 50 005 085 521

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

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

ABN: 47 009 120 549

Perth ProMicro
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2561
Site# 2554

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name:

Address:

Project Name:

Environmental Consulting Services
10 Fort Street
Petersham
NSW 2049

LEPPINGTON - SITE A

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Fax:

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02 9518 1161

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Due:

Priority:

Contact Name:

May 21, 2024 5:20 PM

May 28, 2024

5 Day

All results - Simon Caples

Eurofins Analytical Services Manager : Bonnie Pu

Sample Detail						Asbestos - AS4964	Conductivity (1.5 aqueous extract at 25 °C as rec.)	Moisture Set	Eurofins Suite B10: BTEX/TH/PAH/OC/OPP/PM8	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
External Laboratory											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	AA1	May 20, 2024		Soil	S24-My0063889	X		X	X		
2	AA2	May 20, 2024		Soil	S24-My0063890	X		X	X		
3	AA3	May 20, 2024		Soil	S24-My0063891	X		X	X		
4	AB1	May 20, 2024		Soil	S24-My0063892	X		X	X		
5	AB2	May 20, 2024		Soil	S24-My0063893	X		X	X		
6	AB3	May 20, 2024		Soil	S24-My0063894	X		X	X		
7	AB4	May 20, 2024		Soil	S24-My0063895	X	X	X	X		
8	AB5	May 20, 2024		Soil	S24-My0063896	X		X	X		
9	AC1	May 20, 2024		Soil	S24-My0063897	X		X	X		
10	AC2	May 20, 2024		Soil	S24-My0063898	X		X	X		
11	AC3	May 20, 2024		Soil	S24-My0063899	X		X	X		
12	AC4	May 20, 2024		Soil	S24-My0063900	X		X	X		
13	AC5	May 20, 2024		Soil	S24-My0063901	X		X	X		
14	AD1	May 20, 2024		Soil	S24-My0063902	X		X	X		



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

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Eurofins ProMicro Pty Ltd

ABN: 47 009 120 549

Perth ProMicro
46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2561 Site# 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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35 O'Rorke Road Penrose, Auckland 1061 +64 9 526 4551 IANZ# 1327	Unit C1/4 Pacific Rise, Mount Wellington, Auckland 1061 +64 9 525 0568 IANZ# 1308	43 Detroit Drive Rolleston, Christchurch 7675 +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 +64 9 525 0568 IANZ# 1402

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Sample Detail						Asbestos - AS4964	Conductivity (1:5 aqueous extract at 25 °C as rec.)	Moisture Set	Eurofins Suite B10: BTEX/TH/PAH/OC/OPP/PM8	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
15	AD2	May 20, 2024		Soil	S24-My0063903	X		X	X		
16	AD3	May 20, 2024		Soil	S24-My0063904	X	X	X	X		
17	AD4	May 20, 2024		Soil	S24-My0063905			X	X		
18	AD5	May 20, 2024		Soil	S24-My0063906			X	X		
19	AE1	May 20, 2024		Soil	S24-My0063907			X	X		
20	AE2	May 20, 2024		Soil	S24-My0063908			X	X		
21	AE3	May 20, 2024		Soil	S24-My0063909		X	X	X		
22	AE4	May 20, 2024		Soil	S24-My0063910			X	X		
23	AE5	May 20, 2024		Soil	S24-My0063911			X	X		
24	AF1	May 20, 2024		Soil	S24-My0063912		X	X	X		
25	AF2	May 20, 2024		Soil	S24-My0063913			X	X		
26	AF3	May 20, 2024		Soil	S24-My0063914			X	X		
27	AF4	May 20, 2024		Soil	S24-My0063915			X	X		
28	AF5	May 20, 2024		Soil	S24-My0063916			X	X		
29	AG1	May 20, 2024		Soil	S24-My0063917			X	X		
30	AG2	May 20, 2024		Soil	S24-My0063918			X	X		



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ABN: 47 009 120 549

Perth ProMicro
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Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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Eurofins Analytical Services Manager : Bonnie Pu

Sample Detail						Asbestos - AS4964	Conductivity (1:5 aqueous extract at 25 °C as rec.)	Moisture Set	Eurofins Suite B10: BTEX/TH/PAH/OC/OPP/PM8	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
31	AG3	May 20, 2024		Soil	S24-My0063919			X	X		
32	AG4	May 20, 2024		Soil	S24-My0063920			X	X		
33	AG5	May 20, 2024		Soil	S24-My0063921		X	X	X		
34	AH1	May 20, 2024		Soil	S24-My0063922			X	X		
35	AH2	May 20, 2024		Soil	S24-My0063923			X	X		
36	AH3	May 20, 2024		Soil	S24-My0063924			X	X		
37	AH4	May 20, 2024		Soil	S24-My0063925			X	X		
38	AH5	May 20, 2024		Soil	S24-My0063926			X	X		
39	AI1	May 20, 2024		Soil	S24-My0063927			X	X		
40	AI2	May 20, 2024		Soil	S24-My0063928		X	X	X		
41	AI3	May 20, 2024		Soil	S24-My0063929			X	X		
42	AI4	May 20, 2024		Soil	S24-My0063930			X	X		
43	AI5	May 20, 2024		Soil	S24-My0063931		X	X	X		
44	DA1	May 20, 2024		Soil	S24-My0063932	X		X	X		
45	DA2	May 20, 2024		Soil	S24-My0063933			X	X		
46	DA3	May 20, 2024		Soil	S24-My0063934			X	X		



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Sample Detail						Asbestos - AS4964	Conductivity (1:5 aqueous extract at 25 °C as rec.)	Moisture Set	Eurofins Suite B10: BTEX/TH/PAH/OC/OPP/PM8	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
47	DA4	May 20, 2024		Soil	S24-My0063935	X		X	X		
48	SPIKE	May 20, 2024		Trip Spike (solid)	S24-My0063936						X
49	BLANK	May 20, 2024		Trip Blank (solid)	S24-My0063937					X	
50	TSL	May 20, 2024		Trip Spike (solid)	S24-My0063938						X
Test Counts						18	7	47	47	1	2

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	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	
Method Blank							
Total Recoverable Hydrocarbons							
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 >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							
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	
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	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	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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.)	uS/cm	< 10			10	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
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 >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							
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							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
Total Recoverable Hydrocarbons							
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 >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							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	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							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	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							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	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							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	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	
Copper	mg/kg	< 5			5	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	
Method Blank							
Total Recoverable Hydrocarbons							
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 >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							
Total Recoverable Hydrocarbons							
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 >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	93			80-120	Pass	
Cadmium	%	96			80-120	Pass	
Chromium	%	91			80-120	Pass	
Copper	%	91			80-120	Pass	
Lead	%	89			80-120	Pass	
Mercury	%	98			80-120	Pass	
Nickel	%	95			80-120	Pass	
Zinc	%	94			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	78			70-130	Pass	
TRH >C10-C16	%	77			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	91			70-130	Pass	
Acenaphthylene	%	88			70-130	Pass	
Anthracene	%	91			70-130	Pass	
Benz(a)anthracene	%	90			70-130	Pass	
Benzo(a)pyrene	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	%	91			70-130	Pass	
Benzo(g,h,i)perylene	%	89			70-130	Pass	
Benzo(k)fluoranthene	%	89			70-130	Pass	
Chrysene	%	93			70-130	Pass	
Dibenz(a,h)anthracene	%	91			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene	%	90			70-130	Pass	
Fluorene	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	92			70-130	Pass	
Naphthalene	%	89			70-130	Pass	
Phenanthrene	%	93			70-130	Pass	
Pyrene	%	91			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	89			70-130	Pass	
4.4'-DDD	%	97			70-130	Pass	
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	89			70-130	Pass	
a-HCH	%	88			70-130	Pass	
Aldrin	%	87			70-130	Pass	
b-HCH	%	95			70-130	Pass	
d-HCH	%	87			70-130	Pass	
Dieldrin	%	97			70-130	Pass	
Endosulfan I	%	84			70-130	Pass	
Endosulfan II	%	88			70-130	Pass	
Endosulfan sulphate	%	86			70-130	Pass	
Endrin	%	92			70-130	Pass	
Endrin aldehyde	%	79			70-130	Pass	
Endrin ketone	%	82			70-130	Pass	
g-HCH (Lindane)	%	88			70-130	Pass	
Heptachlor	%	98			70-130	Pass	
Heptachlor epoxide	%	91			70-130	Pass	
Hexachlorobenzene	%	90			70-130	Pass	
Methoxychlor	%	80			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	102			70-130	Pass	
Dimethoate	%	97			70-130	Pass	
Ethion	%	103			70-130	Pass	
Fenitrothion	%	88			70-130	Pass	
Mevinphos	%	106			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	108			80-120	Pass	
Cadmium	%	104			80-120	Pass	
Chromium	%	104			80-120	Pass	
Copper	%	105			80-120	Pass	
Lead	%	103			80-120	Pass	
Mercury	%	111			80-120	Pass	
Nickel	%	109			80-120	Pass	
Zinc	%	108			80-120	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	83			70-130	Pass	
Acenaphthylene	%	97			70-130	Pass	
Anthracene	%	84			70-130	Pass	
Benz(a)anthracene	%	88			70-130	Pass	
Benzo(a)pyrene	%	91			70-130	Pass	
Benzo(b&j)fluoranthene	%	95			70-130	Pass	
Benzo(g,h,i)perylene	%	80			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(k)fluoranthene	%	91			70-130	Pass	
Chrysene	%	94			70-130	Pass	
Dibenz(a,h)anthracene	%	85			70-130	Pass	
Fluoranthene	%	87			70-130	Pass	
Fluorene	%	87			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	85			70-130	Pass	
Phenanthrene	%	76			70-130	Pass	
Pyrene	%	88			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	93			70-130	Pass	
4.4'-DDD	%	89			70-130	Pass	
4.4'-DDE	%	98			70-130	Pass	
4.4'-DDT	%	87			70-130	Pass	
a-HCH	%	89			70-130	Pass	
Aldrin	%	86			70-130	Pass	
b-HCH	%	88			70-130	Pass	
d-HCH	%	94			70-130	Pass	
Dieldrin	%	98			70-130	Pass	
Endosulfan I	%	89			70-130	Pass	
Endosulfan II	%	85			70-130	Pass	
Endosulfan sulphate	%	88			70-130	Pass	
Endrin	%	101			70-130	Pass	
Endrin aldehyde	%	85			70-130	Pass	
Endrin ketone	%	98			70-130	Pass	
g-HCH (Lindane)	%	91			70-130	Pass	
Heptachlor	%	94			70-130	Pass	
Heptachlor epoxide	%	88			70-130	Pass	
Hexachlorobenzene	%	96			70-130	Pass	
Methoxychlor	%	112			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	99			70-130	Pass	
Dimethoate	%	93			70-130	Pass	
Ethion	%	106			70-130	Pass	
Fenitrothion	%	81			70-130	Pass	
Methyl parathion	%	114			70-130	Pass	
Mevinphos	%	95			70-130	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	96			70-130	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	95			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	71			70-130	Pass	
TRH >C10-C16	%	71			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	102			70-130	Pass	
Acenaphthylene	%	93			70-130	Pass	
Anthracene	%	97			70-130	Pass	
Benz(a)anthracene	%	99			70-130	Pass	
Benzo(a)pyrene	%	101			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	104			70-130	Pass	
Benzo(g,h,i)perylene	%	107			70-130	Pass	
Benzo(k)fluoranthene	%	103			70-130	Pass	
Chrysene	%	106			70-130	Pass	
Dibenz(a,h)anthracene	%	104			70-130	Pass	
Fluoranthene	%	96			70-130	Pass	
Fluorene	%	100			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	103			70-130	Pass	
Naphthalene	%	101			70-130	Pass	
Phenanthrene	%	91			70-130	Pass	
Pyrene	%	96			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	100			70-130	Pass	
4,4'-DDD	%	91			70-130	Pass	
4,4'-DDE	%	104			70-130	Pass	
4,4'-DDT	%	83			70-130	Pass	
a-HCH	%	101			70-130	Pass	
Aldrin	%	99			70-130	Pass	
b-HCH	%	98			70-130	Pass	
d-HCH	%	102			70-130	Pass	
Dieldrin	%	97			70-130	Pass	
Endosulfan I	%	101			70-130	Pass	
Endosulfan II	%	91			70-130	Pass	
Endosulfan sulphate	%	96			70-130	Pass	
Endrin	%	94			70-130	Pass	
Endrin aldehyde	%	86			70-130	Pass	
Endrin ketone	%	98			70-130	Pass	
g-HCH (Lindane)	%	99			70-130	Pass	
Heptachlor	%	97			70-130	Pass	
Heptachlor epoxide	%	95			70-130	Pass	
Hexachlorobenzene	%	103			70-130	Pass	
Methoxychlor	%	78			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	127			70-130	Pass	
Dimethoate	%	106			70-130	Pass	
Ethion	%	115			70-130	Pass	
Fenitrothion	%	88			70-130	Pass	
Methyl parathion	%	122			70-130	Pass	
Mevinphos	%	113			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	96			70-130	Pass	
TRH >C10-C16	%	90			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	71			70-130	Pass	
TRH C6-C10	%	72			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	79			70-130	Pass	
Toluene	%	84			70-130	Pass	
Ethylbenzene	%	82			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	%	83			70-130	Pass	
o-Xylene	%	82			70-130	Pass	
Xylenes - Total*	%	82			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	86			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	80			70-130	Pass	
TRH C6-C10	%	81			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	74			70-130	Pass	
Toluene	%	89			70-130	Pass	
Ethylbenzene	%	87			70-130	Pass	
m&p-Xylenes	%	89			70-130	Pass	
o-Xylene	%	87			70-130	Pass	
Xylenes - Total*	%	88			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	87			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	82			70-130	Pass	
TRH C6-C10	%	77			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	87			70-130	Pass	
Toluene	%	88			70-130	Pass	
Ethylbenzene	%	87			70-130	Pass	
m&p-Xylenes	%	85			70-130	Pass	
o-Xylene	%	85			70-130	Pass	
Xylenes - Total*	%	85			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	88			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	104			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	103			80-120	Pass	
Copper	%	105			80-120	Pass	
Lead	%	102			80-120	Pass	
Mercury	%	109			80-120	Pass	
Nickel	%	108			80-120	Pass	
Zinc	%	106			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	76			70-130	Pass	
TRH >C10-C16	%	75			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C10-C14	%	84			70-130	Pass	
TRH >C10-C16	%	80			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	S24-My0075505	NCP	%	99		70-130	Pass	
TRH C10-C14	S24-My0075607	NCP	%	73		70-130	Pass	
TRH C6-C10	S24-My0075505	NCP	%	97		70-130	Pass	
TRH >C10-C16	S24-My0070808	NCP	%	82		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S24-My0063897	CP	%	73		70-130	Pass	
Toluene	S24-My0063897	CP	%	75		70-130	Pass	
Ethylbenzene	S24-My0063897	CP	%	77		70-130	Pass	
m&p-Xylenes	S24-My0063897	CP	%	74		70-130	Pass	
o-Xylene	S24-My0063897	CP	%	77		70-130	Pass	
Xylenes - Total*	S24-My0063897	CP	%	75		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S24-My0063897	CP	%	74		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S24-My0063898	CP	%	94		75-125	Pass	
Cadmium	S24-My0063898	CP	%	92		75-125	Pass	
Chromium	S24-My0063898	CP	%	101		75-125	Pass	
Copper	S24-My0063898	CP	%	101		75-125	Pass	
Lead	S24-My0063898	CP	%	92		75-125	Pass	
Mercury	S24-My0063898	CP	%	97		75-125	Pass	
Nickel	S24-My0063898	CP	%	104		75-125	Pass	
Zinc	S24-My0063898	CP	%	108		75-125	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S24-My0063918	CP	%	98		75-125	Pass	
Cadmium	S24-My0063918	CP	%	91		75-125	Pass	
Chromium	S24-My0063918	CP	%	85		75-125	Pass	
Copper	S24-My0063918	CP	%	87		75-125	Pass	
Lead	S24-My0063918	CP	%	84		75-125	Pass	
Mercury	S24-My0063918	CP	%	98		75-125	Pass	
Nickel	S24-My0063918	CP	%	92		75-125	Pass	
Zinc	S24-My0063918	CP	%	78		75-125	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S24-My0063928	CP	%	121		75-125	Pass	
Cadmium	S24-My0063928	CP	%	119		75-125	Pass	
Chromium	S24-My0063928	CP	%	125		75-125	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	N24-My0056915	NCP	%	79		70-130	Pass	
Acenaphthylene	N24-My0056915	NCP	%	80		70-130	Pass	
Anthracene	N24-My0056915	NCP	%	80		70-130	Pass	
Benz(a)anthracene	S24-My0071529	NCP	%	99		70-130	Pass	
Benzo(a)pyrene	N24-My0056915	NCP	%	70		70-130	Pass	
Benzo(b&j)fluoranthene	S24-My0071529	NCP	%	100		70-130	Pass	
Benzo(g,h,i)perylene	S24-My0071529	NCP	%	86		70-130	Pass	
Benzo(k)fluoranthene	N24-My0056915	NCP	%	71		70-130	Pass	
Chrysene	N24-My0056915	NCP	%	76		70-130	Pass	
Dibenz(a,h)anthracene	S24-My0071529	NCP	%	97		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene	N24-My0056915	NCP	%	78			70-130	Pass	
Fluorene	N24-My0056915	NCP	%	81			70-130	Pass	
Indeno(1.2.3-cd)pyrene	N24-My0056915	NCP	%	70			70-130	Pass	
Naphthalene	N24-My0056915	NCP	%	81			70-130	Pass	
Phenanthrene	N24-My0056915	NCP	%	74			70-130	Pass	
Pyrene	N24-My0056915	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S24-My0066392	NCP	%	90			70-130	Pass	
4.4'-DDD	S24-My0066392	NCP	%	84			70-130	Pass	
4.4'-DDE	S24-My0066392	NCP	%	90			70-130	Pass	
4.4'-DDT	S24-My0066392	NCP	%	92			70-130	Pass	
a-HCH	S24-My0066392	NCP	%	88			70-130	Pass	
Aldrin	S24-My0066392	NCP	%	91			70-130	Pass	
b-HCH	S24-My0066392	NCP	%	80			70-130	Pass	
d-HCH	S24-My0066392	NCP	%	84			70-130	Pass	
Dieldrin	S24-My0066392	NCP	%	93			70-130	Pass	
Endosulfan I	S24-My0066392	NCP	%	93			70-130	Pass	
Endosulfan II	S24-My0066392	NCP	%	89			70-130	Pass	
Endosulfan sulphate	S24-My0066392	NCP	%	90			70-130	Pass	
Endrin	S24-My0066392	NCP	%	94			70-130	Pass	
Endrin aldehyde	S24-My0066392	NCP	%	112			70-130	Pass	
Endrin ketone	S24-My0066392	NCP	%	91			70-130	Pass	
g-HCH (Lindane)	S24-My0066392	NCP	%	88			70-130	Pass	
Heptachlor	S24-My0066392	NCP	%	89			70-130	Pass	
Heptachlor epoxide	S24-My0066392	NCP	%	84			70-130	Pass	
Hexachlorobenzene	S24-My0066392	NCP	%	90			70-130	Pass	
Methoxychlor	S24-My0066392	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S24-My0063933	CP	%	120			70-130	Pass	
Dimethoate	S24-My0063933	CP	%	92			70-130	Pass	
Ethion	S24-My0063933	CP	%	107			70-130	Pass	
Methyl parathion	S24-My0063933	CP	%	75			70-130	Pass	
Mevinphos	S24-My0063933	CP	%	99			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S24-My0063933	CP	%	105			75-125	Pass	
Cadmium	S24-My0063933	CP	%	103			75-125	Pass	
Chromium	S24-My0063933	CP	%	100			75-125	Pass	
Copper	S24-My0063933	CP	%	95			75-125	Pass	
Lead	S24-My0063933	CP	%	100			75-125	Pass	
Mercury	S24-My0063933	CP	%	101			75-125	Pass	
Nickel	S24-My0063933	CP	%	95			75-125	Pass	
Zinc	S24-My0063933	CP	%	99			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(g,h,i)perylene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S24-My0063892	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S24-My0063892	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S24-My0063892	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S24-My0063892	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfotthion	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Malathion	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	S24-My0063892	CP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	S24-My0063892	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	S24-My0063892	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S24-My0063892	CP	mg/kg	12	13	6.5	30%	Pass
Cadmium	S24-My0063892	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S24-My0063892	CP	mg/kg	21	19	8.4	30%	Pass
Copper	S24-My0063892	CP	mg/kg	21	20	6.8	30%	Pass
Lead	S24-My0063892	CP	mg/kg	17	24	37	30%	Fail
Mercury	S24-My0063892	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S24-My0063892	CP	mg/kg	9.6	10	6.1	30%	Pass
Zinc	S24-My0063892	CP	mg/kg	51	50	2.2	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	S24-My0063896	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C6-C10	S24-My0063896	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S24-My0063896	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S24-My0063896	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S24-My0063896	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S24-My0063896	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S24-My0063896	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	S24-My0063896	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S24-My0063896	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	S24-My0063897	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S24-My0063897	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S24-My0063897	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	S24-My0063897	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S24-My0063897	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S24-My0063897	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Benzo(a)pyrene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S24-My0063897	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S24-My0063897	CP	mg/kg	0.07	< 0.05	200	30%	Fail Q15
4,4'-DDE	S24-My0063897	CP	mg/kg	0.07	< 0.05	100	30%	Fail Q15
4,4'-DDT	S24-My0063897	CP	mg/kg	0.05	< 0.05	160	30%	Fail Q15
Aldrin	S24-My0063897	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S24-My0063897	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S24-My0063897	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S24-My0063897	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S24-My0063897	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S24-My0063897	CP	mg/kg	0.11	< 0.05	180	30%	Fail Q15
Endosulfan sulphate	S24-My0063897	CP	mg/kg	0.07	< 0.05	200	30%	Fail Q15
Endrin	S24-My0063897	CP	mg/kg	0.05	< 0.05	120	30%	Fail Q15
Endrin aldehyde	S24-My0063897	CP	mg/kg	0.05	< 0.05	170	30%	Fail Q15
Endrin ketone	S24-My0063897	CP	mg/kg	0.12	< 0.05	200	30%	Fail Q15
Heptachlor	S24-My0063897	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S24-My0063897	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S24-My0063897	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S24-My0063897	CP	mg/kg	0.09	< 0.05	170	30%	Fail Q15
Toxaphene	S24-My0063897	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Azinphos-methyl	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorfenvinphos	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	S24-My0063897	CP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dichlorvos	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethoprop	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfthion	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Malathion	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	S24-My0063897	CP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	S24-My0063897	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	S24-My0063897	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S24-My0063897	CP	mg/kg	15	14	7.2	30%	Pass
Cadmium	S24-My0063897	CP	mg/kg	0.5	0.5	<1	30%	Pass
Chromium	S24-My0063897	CP	mg/kg	20	18	13	30%	Pass
Copper	S24-My0063897	CP	mg/kg	65	70	7.7	30%	Pass
Lead	S24-My0063897	CP	mg/kg	37	35	5.0	30%	Pass
Nickel	S24-My0063897	CP	mg/kg	11	11	<1	30%	Pass
Zinc	S24-My0063897	CP	mg/kg	140	130	5.4	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	S24-My0063897	CP	%	25	24	4.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	S24-My0063906	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C6-C10	S24-My0063906	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S24-My0063906	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S24-My0063906	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S24-My0063906	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S24-My0063906	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S24-My0063906	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	S24-My0063906	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S24-My0063906	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	S24-My0063907	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S24-My0063907	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S24-My0063907	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	S24-My0063907	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S24-My0063907	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S24-My0063907	CP	mg/kg	< 100	< 100	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S24-My0063907	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S24-My0063907	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S24-My0063907	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Azinphos-methyl	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorfenvinphos	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	S24-My0063907	CP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dichlorvos	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Ethoprop	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfothion	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Malathion	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	S24-My0063907	CP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	S24-My0063907	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	S24-My0063907	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S24-My0063907	CP	mg/kg	7.5	7.5	<1	30%	Pass
Cadmium	S24-My0063907	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S24-My0063907	CP	mg/kg	14	15	1.2	30%	Pass
Copper	S24-My0063907	CP	mg/kg	15	15	5.2	30%	Pass
Lead	S24-My0063907	CP	mg/kg	12	12	<1	30%	Pass
Mercury	S24-My0063907	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S24-My0063907	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S24-My0063907	CP	mg/kg	22	23	1.1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	S24-My0063917	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S24-My0063917	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S24-My0063917	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	S24-My0063917	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S24-My0063917	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S24-My0063917	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Phenanthrene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S24-My0063917	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S24-My0063917	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S24-My0063917	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Azinphos-methyl	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorfenvinphos	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	S24-My0063917	CP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dichlorvos	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethoprop	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfthion	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Malathion	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	S24-My0063917	CP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	S24-My0063917	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Pyrazophos	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	S24-My0063917	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S24-My0063917	CP	mg/kg	12	14	16	30%	Pass
Cadmium	S24-My0063917	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S24-My0063917	CP	mg/kg	20	23	16	30%	Pass
Copper	S24-My0063917	CP	mg/kg	15	18	17	30%	Pass
Lead	S24-My0063917	CP	mg/kg	21	24	15	30%	Pass
Mercury	S24-My0063917	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S24-My0063917	CP	mg/kg	9.2	11	17	30%	Pass
Zinc	S24-My0063917	CP	mg/kg	27	31	14	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	S24-My0063917	CP	%	25	23	6.8	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	S24-My0063926	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C6-C10	S24-My0063926	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S24-My0063926	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S24-My0063926	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S24-My0063926	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S24-My0063926	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S24-My0063926	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	S24-My0063926	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S24-My0063926	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	S24-My0063927	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S24-My0063927	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S24-My0063927	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	S24-My0063927	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S24-My0063927	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S24-My0063927	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b,j)fluoranthene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Fluoranthene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S24-My0063927	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S24-My0063927	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S24-My0063927	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Azinphos-methyl	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorfenvinphos	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	S24-My0063927	CP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dichlorvos	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethoprop	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfthion	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Malathion	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	S24-My0063927	CP	mg/kg	< 2	< 2	<1	30%	Pass

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Naled	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	S24-My0063927	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	S24-My0063927	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S24-My0063927	CP	mg/kg	14	16	13	30%	Pass
Cadmium	S24-My0063927	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S24-My0063927	CP	mg/kg	24	27	9.6	30%	Pass
Copper	S24-My0063927	CP	mg/kg	23	33	36	30%	Fail
Lead	S24-My0063927	CP	mg/kg	27	24	14	30%	Pass
Mercury	S24-My0063927	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S24-My0063927	CP	mg/kg	11	13	12	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Conductivity (1:5 aqueous extract at 25 °C as rec.)	S24-My0063928	CP	uS/cm	21	29	33	30%	Fail

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
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.

Authorised by:

Bonnie Pu	Analytical Services Manager
Fang Yee Tan	Senior Analyst-Metal
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Sample Properties
Roopesh Rangarajan	Senior Analyst-Volatile
Ryan Phillips	Senior Analyst-Inorganic
Sayed 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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Environmental Consulting Services
10 Fort Street
Petersham
NSW 2049



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: All results - Simon Caples
Report 1100135-AID
Project Name **LEPPINGTON - SITE A**
Received Date May 21, 2024
Date Reported May 31, 2024

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 LEPPINGTON - SITE A
Project ID
Date Sampled May 20, 2024
Report 1100135-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AA1	24-My0063889	May 20, 2024	Approximate Sample 45g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AA2	24-My0063890	May 20, 2024	Approximate Sample 60g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AA3	24-My0063891	May 20, 2024	Approximate Sample 63g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AB1	24-My0063892	May 20, 2024	Approximate Sample 47g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AB2	24-My0063893	May 20, 2024	Approximate Sample 52g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AB3	24-My0063894	May 20, 2024	Approximate Sample 57g Sample consisted of: Black coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AB4	24-My0063895	May 20, 2024	Approximate Sample 81g Sample consisted of: Brown coarse-grained clayey sandy soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AB5	24-My0063896	May 20, 2024	Approximate Sample 79g Sample consisted of: Brown fine-grained clayey soil, organic debris 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
AC1	24-My0063897	May 20, 2024	Approximate Sample 46g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AC2	24-My0063898	May 20, 2024	Approximate Sample 72g Sample consisted of: Brown fine-grained clayey soil, bitumen, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AC3	24-My0063899	May 20, 2024	Approximate Sample 58g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AC4	24-My0063900	May 20, 2024	Approximate Sample 65g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AC5	24-My0063901	May 20, 2024	Approximate Sample 42g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AD1	24-My0063902	May 20, 2024	Approximate Sample 68g Sample consisted of: Brown fine-grained clayey soil, bitumen, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AD2	24-My0063903	May 20, 2024	Approximate Sample 65g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
AD3	24-My0063904	May 20, 2024	Approximate Sample 50g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
DA1	24-My0063932	May 20, 2024	Approximate Sample 57g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
DA4	24-My0063935	May 20, 2024	Approximate Sample 62g Sample consisted of: Brown fine-grained clayey soil, organic debris 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	May 23, 2024	Indefinite



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Company Name:
Address:

Project Name:

Environmental Consulting Services
10 Fort Street
Petersham
NSW 2049

LEPPINGTON - SITE A

Order No.:
Report #:
Phone:
Fax:

1100135
02 9518 1161

Received:
Due:
Priority:
Contact Name:

May 21, 2024 5:20 PM
May 28, 2024
5 Day
All results - Simon Caples

Eurofins Analytical Services Manager : Bonnie Pu

Sample Detail						Asbestos - AS4964	Conductivity (1:5 aqueous extract at 25 °C as rec.)	Moisture Set	Eurofins Suite B10: BTEX/TRH/PAH/OC/OPP/PM8	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
External Laboratory											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	AA1	May 20, 2024		Soil	S24-My0063889	X		X	X		
2	AA2	May 20, 2024		Soil	S24-My0063890	X		X	X		
3	AA3	May 20, 2024		Soil	S24-My0063891	X		X	X		
4	AB1	May 20, 2024		Soil	S24-My0063892	X		X	X		
5	AB2	May 20, 2024		Soil	S24-My0063893	X		X	X		
6	AB3	May 20, 2024		Soil	S24-My0063894	X		X	X		
7	AB4	May 20, 2024		Soil	S24-My0063895	X	X	X	X		
8	AB5	May 20, 2024		Soil	S24-My0063896	X		X	X		
9	AC1	May 20, 2024		Soil	S24-My0063897	X		X	X		
10	AC2	May 20, 2024		Soil	S24-My0063898	X		X	X		
11	AC3	May 20, 2024		Soil	S24-My0063899	X		X	X		
12	AC4	May 20, 2024		Soil	S24-My0063900	X		X	X		
13	AC5	May 20, 2024		Soil	S24-My0063901	X		X	X		
14	AD1	May 20, 2024		Soil	S24-My0063902	X		X	X		



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email: EnviroSales@eurofins.com

ABN: 50 005 085 521

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

ABN: 91 05 0159 898

Perth
46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2377 Site# 2370

ABN: 47 009 120 549

Perth ProMicro
46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2561 Site# 2554

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 +64 9 526 4551 IANZ# 1327	Unit C1/4 Pacific Rise, Mount Wellington, Auckland 1061 +64 9 525 0568 IANZ# 1308	43 Detroit Drive Rolleston, Christchurch 7675 +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 +64 9 525 0568 IANZ# 1402

Company Name:

Address:

Project Name:

Environmental Consulting Services
10 Fort Street
Petersham
NSW 2049

LEPPINGTON - SITE A

Order No.:

Report #:

Phone:

Fax:

1100135
02 9518 1161

Received:

Due:

Priority:

Contact Name:

May 21, 2024 5:20 PM
May 28, 2024
5 Day
All results - Simon Caples

Eurofins Analytical Services Manager : Bonnie Pu

Sample Detail						Asbestos - AS4964	Conductivity (1:5 aqueous extract at 25 °C as rec.)	Moisture Set	Eurofins Suite B10: BTEX/TH/PAH/OCP/OPP/PM8	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
15	AD2	May 20, 2024		Soil	S24-My0063903	X		X	X		
16	AD3	May 20, 2024		Soil	S24-My0063904	X	X	X	X		
17	AD4	May 20, 2024		Soil	S24-My0063905			X	X		
18	AD5	May 20, 2024		Soil	S24-My0063906			X	X		
19	AE1	May 20, 2024		Soil	S24-My0063907			X	X		
20	AE2	May 20, 2024		Soil	S24-My0063908			X	X		
21	AE3	May 20, 2024		Soil	S24-My0063909		X	X	X		
22	AE4	May 20, 2024		Soil	S24-My0063910			X	X		
23	AE5	May 20, 2024		Soil	S24-My0063911			X	X		
24	AF1	May 20, 2024		Soil	S24-My0063912		X	X	X		
25	AF2	May 20, 2024		Soil	S24-My0063913			X	X		
26	AF3	May 20, 2024		Soil	S24-My0063914			X	X		
27	AF4	May 20, 2024		Soil	S24-My0063915			X	X		
28	AF5	May 20, 2024		Soil	S24-My0063916			X	X		
29	AG1	May 20, 2024		Soil	S24-My0063917			X	X		
30	AG2	May 20, 2024		Soil	S24-My0063918			X	X		



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Perth ProMicro
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NZBN: 9429046024954

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Company Name:

Address:

Project Name:

Environmental Consulting Services
10 Fort Street
Petersham
NSW 2049

LEPPINGTON - SITE A

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02 9518 1161

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May 21, 2024 5:20 PM
May 28, 2024
5 Day
All results - Simon Caples

Eurofins Analytical Services Manager : Bonnie Pu

Sample Detail						Asbestos - AS4964	Conductivity (1:5 aqueous extract at 25 °C as rec.)	Moisture Set	Eurofins Suite B10: BTEX/TH/PAH/OC/OPP/PM8	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
31	AG3	May 20, 2024		Soil	S24-My0063919			X	X		
32	AG4	May 20, 2024		Soil	S24-My0063920			X	X		
33	AG5	May 20, 2024		Soil	S24-My0063921		X	X	X		
34	AH1	May 20, 2024		Soil	S24-My0063922			X	X		
35	AH2	May 20, 2024		Soil	S24-My0063923			X	X		
36	AH3	May 20, 2024		Soil	S24-My0063924			X	X		
37	AH4	May 20, 2024		Soil	S24-My0063925			X	X		
38	AH5	May 20, 2024		Soil	S24-My0063926			X	X		
39	AI1	May 20, 2024		Soil	S24-My0063927			X	X		
40	AI2	May 20, 2024		Soil	S24-My0063928		X	X	X		
41	AI3	May 20, 2024		Soil	S24-My0063929			X	X		
42	AI4	May 20, 2024		Soil	S24-My0063930			X	X		
43	AI5	May 20, 2024		Soil	S24-My0063931		X	X	X		
44	DA1	May 20, 2024		Soil	S24-My0063932	X		X	X		
45	DA2	May 20, 2024		Soil	S24-My0063933			X	X		
46	DA3	May 20, 2024		Soil	S24-My0063934			X	X		



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ABN: 47 009 120 549

Perth ProMicro
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10 Fort Street
Petersham
NSW 2049

LEPPINGTON - SITE A

Order No.:

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Fax:

1100135
02 9518 1161

Received:

Due:

Priority:

Contact Name:

May 21, 2024 5:20 PM
May 28, 2024
5 Day
All results - Simon Caples

Eurofins Analytical Services Manager : Bonnie Pu

Sample Detail						Asbestos - AS4964	Conductivity (1:5 aqueous extract at 25 °C as rec.)	Moisture Set	Eurofins Suite B10: BTEX/TRH/PAH/OC/OPP/PM8	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
47	DA4	May 20, 2024		Soil	S24-My0063935	X		X	X		
48	SPIKE	May 20, 2024		Trip Spike (solid)	S24-My0063936						X
49	BLANK	May 20, 2024		Trip Blank (solid)	S24-My0063937					X	
Test Counts						18	7	47	47	1	1

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:

Bennel Jiri 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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Sample Receipt Advice

Company name:	Environmental Consulting Services
Contact name:	All results - Simon Caples
Project name:	LEPPINGTON - SITE A
Project ID:	Not provided
Turnaround time:	5 Day
Date/Time received	May 21, 2024 5:20 PM
Eurofins reference	1100135

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 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:

Bonnie Pu on phone : or by email: BonniePu@eurofins.com

Results will be delivered electronically via email to All results - Simon Caples - simon@ecsgroup.com.au.



Chain of Custody

#1100135

P 1/3

Project: Leppington - Site A																				
Environmental Consulting Services Pty Ltd						Manager: Simon Caples				Ph: 0415 225 474				Email: simon@ecsgroup.com.au						
Event Number:			Matrix			Analysis														
Lab Number	Sample Number	Sample Date	Soil	Water	Other	BTEX	TPH	PAH	Phenol	Metals	Asbestos	Suite B7	Suite B9	Suite B10	Suite R16					
	AA1	20/5									✓			✓						
	AA2	20/5									✓			✓						
	AA3	20/5									✓			✓						
	AB1	20/5									✓			✓						
	AB2	20/5									✓			✓						
	AB3	20/5									✓			✓						
	AB4	20/5									✓			✓		✓				
	AB5	20/5									✓			✓						
	AC1	20/5									✓			✓						
	AC2	20/5									✓			✓						
	AC3	20/5									✓			✓						
	AC4	20/5									✓			✓						
	AC5	20/5									✓			✓						
	AD1	20/5									✓			✓						
	AD2	20/5									✓			✓						
	AD3	20/5									✓			✓		✓				
	AD4	20/5												✓						
	AD5	20/5												✓						
	AE1	20/5												✓						
	AE2	20/5												✓						
	AE3	20/5												✓		✓				
Turn Around Time: 5 DAYS			Comments:																	
Relinquished By: Simon			Signed: [Signature]			Date: 21/5			Received By: [Signature]			Signed: [Signature]			Date: 21/5			5:40		



Project: Leppington - Site A																			
Environmental Consulting Services Pty Ltd						Manager: Simon Caples				Ph: 0415 225 474				Email: simon@ecsgroup.com.au					
Event Number:			Matrix			Analysis													
Lab Number	Sample Number	Sample Date	Soil	Water	Other	BTEX	TPH	PAH	Phenol	Metals	Asbestos	Suite B7	Suite B9	Suite B10	Suite R16	EC			
	AE4	20/5												✓					
	AE5	20/5												✓					
	AF1	20/5												✓		✓			
	AF2	20/5												✓					
	AF3	20/5												✓					
	AF4	20/5												✓					
	AF5	20/5												✓					
	AG1	20/5												✓					
	AG2	20/5												✓					
	AG3	20/5												✓					
	AG4	20/5												✓					
	AG5	20/5												✓		✓			
	AH1	20/5												✓					
	AH2	20/5												✓					
	AH3	20/5												✓					
	AH4	20/5												✓					
	AH5	20/5												✓					
	AI1	20/5												✓					
	AI2	20/5												✓		✓			
	AI3	20/5												✓					
	AI4	20/5												✓					
Turn Around Time:						Comments:													
Relinquished By:			Signed:				Date:		Received By:				Signed:				Date:		

[illegible]