
**Report on
Additional Contamination Investigation**

Bromelton Energy and Resource Centre

**Lot 1 Beaudesert Boonah Road, Bromelton
QLD**

**Prepared for Cleanaway Operations Pty
Ltd**

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Glossary of Terms

ABC	ambient background concentration
ACL	added contaminant limit
ACM	asbestos-containing materials
ADWG	Australia Drinking Water Guidelines
AEC	area of environmental concern
AF	asbestos fines
ALS	Australian Laboratory Services
AST	above ground storage tank
AHD	Australian Height Datum
ANZECC	Australian and New Zealand Environmental & Conservation Council
ANZG	Australian and New Zealand Guidelines
As	arsenic
ASS	acid sulphate soil
BaP	benzo(a)pyrene (a polycyclic aromatic hydrocarbon compound)
BaP TEQ	benzo(a)pyrene toxic equivalence quotient
bgl	below ground level
BTEX	benzene, toluene, ethylbenzene, total xylenes
BTEXN	benzene, toluene, ethylbenzene, xylenes, naphthalene
Cd	cadmium
CEC	cation exchange capacity
CLR	Contaminated Land Register
CoC	chain of custody
CoPC	contaminants of potential concern
Cr	chromium (total)
CSM	conceptual site model
Cu	copper
Cx	equivalent carbon atoms in TRH groups
DA	development application
DCE	dichloroethene
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
DESI	Queensland Government Department of Environment, Science and Innovation
DILGP	Queensland Department of Infrastructure, Local Government and Planning

DP	Douglas Partners Pty Ltd
D.P.	deposited plan
DNAPL	dense non-aqueous phase liquid
DSI	Detailed Site Investigation
DQI	data quality indicators
DQO	data quality objectives
EIL	Ecological Investigation levels
EMP	environmental management plan
EMR	Environmental Management Register
EPA	Environmental Protection Authority
ESA	Environmentally Sensitive Areas
ESL	Ecological Screening levels
F1	TPH Fraction C ₆ -C ₁₀
F2	TPH Fraction >C ₁₀ -C ₁₆
F3	TPH Fraction >C ₁₆ -C ₃₄
F4	TPH Fraction >C ₃₄ -C ₄₀
FA	fibrous asbestos
Fe	iron
GAC	groundwater assessment criteria
GDE	groundwater dependant ecosystems
GW	groundwater
GIL	groundwater investigation level
ha	hectares
HIL	Health Investigation Levels
Hg	mercury
HSL	Health Screening Levels
kL	kilolitre (1,000 litres).
km	kilometre
L	litre
LNAPL	light non-aqueous phase liquid
LOP	level of protection
LOR	laboratories limit of reporting
m	metre
mm	millimetre
m ²	square metre
mg/kg	milligrams per kilogram (or parts per million)

mg/L	milligrams per litre (or parts per million)
MSES	Matters of State Environmental Significance
MTBE	methyl tertiary butyl ether
NATA	National Association of Testing Authorities
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
Ni	nickel
NSW	New South Wales
ND (nd)	not detected
NHMRC	National Health and Medical Research Council
NRMMC	National Resource Management Ministerial Council
OCP	organochlorine pesticides
OEH	Office of Environment and Heritage
OPP	organophosphorous pesticides
PACM	Potential asbestos-containing materials
PAH	polycyclic aromatic hydrocarbon
Pb	lead
PCB	polychlorinated biphenyls
PCE	tetrachloroethene
PFAS	per- and polyfluoroalkyl substances
pH	unit measure of acidity/ alkalinity
PID	photoionisation detector
ppb	Parts per billion
ppm	Parts per million
PPE	personal protective equipment
PR	principal's representative
PSH	phase separated hydrocarbons
PSI	Preliminary Site Investigation
PQL	practical quantitation limit
QA	quality assurance
QC	quality control
OCP	organochlorine pesticides
QLD	Queensland
EfW	Energy from Waste
OPP	organophosphorus pesticides
RP	remediation plan

RL	relative level
RPD	relative percentage difference
SAC	site assessment criteria
SEQ	South East Queensland
SRRC	Scenic Rim Regional Council
SWL	standing water level
SWMS	safe work method statement
TCE	trichloroethene
TCLP	toxicity characteristic leaching procedure
TDS	total dissolved solids
TKN	total Kjeldahl nitrogen
TRH	total recoverable hydrocarbons
TOC	total organic carbon
TOPIC	total photoionisable compounds
TSS	total suspended solids
µg/L	microgram per litre (or parts per billion)
UCL	upper confidence limit of data set
UFP	unexpected finds protocol
UPSS	underground petroleum storage system (usually includes a UST)
UST	underground storage tank
VC	vinyl chloride
VCH	volatile chlorinated hydrocarbon
VHC	volatile halogenated compound
VOC	volatile organic compound
WHS	work health and safety
WQO	water quality objectives
Zn	zinc
µS/cm	Micro Siemens per centimetre a measure of conductivity and salinity.
%	percent
<	less than
≤	equal to or less than
>	greater than
≥	equal to or greater than

Note: Not all acronyms, initialisations and symbols listed above were used in the report

Executive Summary

Douglas Partners Pty Ltd ('Douglas') was engaged by Cleanaway Operations Pty Ltd ('Cleanaway') to conduct this Additional Contamination Investigation for the proposed Bromelton Energy and Resource Centre (BERC), to be located on the northern third of Lot 1 on RP45234, Beaudesert Boonah Road, Bromelton (hereinafter referred to as 'the site'). The site boundary is shown on Drawing 1 provided in Appendix B.

Douglas recently conducted a *Preliminary Site Investigation for Contamination* (PSI) (Douglas, 2023) at the site. A Copy of the PSI report is provided in Appendix C of this document. Potential sources of contamination were identified, comprising historical agricultural activities and a spray race. The remnants of the spray race were still located on the site during the PSI. A historical map from 1927 indicated that a 'dip' was present at the site, that appeared to be in a similar location to the spray race. The PSI report is further summarised in Section 3 of this report, while other relevant information from the PSI has been incorporated throughout this report.

The objective of this investigation was to assess the contamination status of soil and groundwater surrounding the spray race at the site. The scope of work included a review of Douglas' 2022 preliminary site investigation (PSI) report (refer to Section 3), drilling, soil sampling and laboratory analysis for identified CoPC from 26 boreholes and three additional surface sampling locations located within the area of the spray race, installation of one new groundwater monitoring well and groundwater sampling from three (one new and two formerly installed) groundwater monitoring wells, a Tier 1 assessment of the analytical results against adopted thresholds and preparation of this report.

Based on the findings of the investigation, the following conclusions and recommendations have been made for the site:

- The intrusive soil investigation of the spray race indicated that contamination has not been detected at the locations and depths tested at concentrations that are considered to present a risk of harm to potential human and ecological receptors;
- The groundwater investigation indicated that pH, EC and turbidity values did not meet the adopted SAC guidelines in all monitoring wells. The concentrations of arsenic in the groundwater samples collected from MW101 and MW9 exceeded adopted SAC, however, the remainder of CoPCs reported concentrations less than the LOR. The reported arsenic exceedances could be associated with historical site use. Therefore, if discharge of groundwater is proposed, then treatment would be required due to the reported exceedances of the SAC;
- The spray race area is considered suitable for the proposed BERC development;
- While no contamination was identified during the PSI (Douglas, 2023), it should be noted that the sampling density (for the entire site area) was less than the recommended minimum sampling density for site characterisation (NSW, 2022), and the potential exists for contaminated soil to be present across parts of the site that have not been investigated by soil sampling and laboratory analysis. The remainder of the site is considered to present a lower risk of contamination. Some potential for contamination still exists due to the site's history of agricultural use. If a detailed site investigation (DSI) over the larger site area is

required, sampling should be conducted at sufficient density to meet the recommended minimum density detailed in NSW EPA (2022); and

- Finally, should the site be developed without further investigation over the large site area, Douglas recommends the preparation and implementation of a UFP. The UFP should be included in early works/bulk earthworks environmental management plans at the site.

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	Soil Descriptions
	Sampling, Testing and Excavation Methodology
Appendix B	Drawings
Appendix C	PSI Report (Douglas, 2023) Refer to Appendix F1 for updated PSI Report (Douglas, 2025)
Appendix D	Data Quality Assurance and Quality Control
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Report on Additional Contamination Investigation Bromelton Energy and Resource Centre Lot 1 Beaudesert Boonah Road, Bromelton QLD

1. Introduction

Douglas Partners Pty Ltd ('Douglas') was engaged by Cleanaway Operations Pty Ltd ('Cleanaway') to conduct this Additional Contamination Investigation for the proposed Bromelton Energy and Resource Centre (BERC), to be located on the northern third of Lot 1 on RP45234, Beaudesert Boonah Road, Bromelton (hereinafter referred to as 'the site'). The site boundary is shown on Drawing 1 provided in Appendix B.

The site covers the entire proposed development footprint area of approximately 21 ha and will be located within the northern third of the greater Lot 1, which covers a total area of approximately 63 ha. The proposed development is understood to include:

- cut to fill earthworks to provide a terraced building area of approximately 21 ha;
- construction of an energy from waste facility (EfW), with a below ground bunker that could be up to 15 m below finished ground levels;
- construction of administration and control buildings; and
- formation of access road and carparking pavements, areas of landscaping and waste storage areas.

Douglas recently conducted a *Preliminary Site Investigation for Contamination* (PSI) (Douglas, 2023) at the site. A Copy of the PSI report is provided in Appendix C of this document. Potential sources of contamination were identified, comprising historical agricultural activities and a spray race. The remnants of the spray race were still located on the site during the PSI. A historical map from 1927 indicated that a 'dip' was present at the site, that appeared to be in a similar location to the spray race. The PSI report is further summarised in Section 3 of this report, while other relevant information from the PSI has been incorporated throughout this report. The objective of this investigation was to assess the contamination status of soil and groundwater surrounding the spray race at the site and delineate any impact (if identified).

This report must be read in conjunction with the notes entitled '*About this Report*' attached in Appendix A and other explanatory notes, and the report should be kept in its entirety without separation of individual pages or sections.

1.1 Regulatory Context

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

- National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [the 'NEPM'] (NEPC, 2013);
- Sections 387 and 388 of the Environmental Protection Act 1994 (the 'EP Act'); and
- Bromelton State Development Area Development Scheme December 2017 (State of Queensland, Department of State Development).

The Bromelton State Development Area (SDA) Development Scheme December 2017 details SDA wide assessment criteria, which includes the following criteria relating to contaminated land:

"2.5.7 Contaminated land

(1) Development on land likely to be contaminated or recorded on the Environmental Management Register or Contaminated Land Register does not adversely impact on human health or the environment by exposure, management, or movement of contaminants.

(2) Where required, develop a strategy to manage any existing contamination and the potential for additional contamination such that human health and the environment are not adversely affected."

1.2 Scope of Work

The investigation comprised the following:

- A review of the PSI report (Douglas, 2023);
- Drilling of one borehole (designated Bore 101) to a depth of 18 m bgl using a truck-mounted drilling rig equipped with solid flight augers and installation of a groundwater monitoring well;
- Drilling of 25 boreholes (designated Bores 102 to 126) to depths between 0.5 m and 1.0 m bgl using a mechanical drilling rig with push tube sampling capability;
- Collection of soil samples at various depth intervals from all boreholes, as well as three additional surface soil samples (designated 127 to 129);
- Collection of one groundwater sample from the groundwater monitoring well and collection of an additional two groundwater samples from previously installed wells at the site. It should be noted that three wells were previously installed at the site (MW7, MW8 and MW9), and it was originally proposed that all three wells would be sampled, however, at the time of sampling one of the groundwater wells (MW8) was dry and therefore no sample could be collected at this location;
- Analysis of selected soil and groundwater samples, plus QC samples for a range of CoPC;
- A Tier 1 assessment of the analytical results against adopted thresholds;
- Development of a revised CSM; and
- Preparation of this report.

2. Project Overview

Cleanaway is an Australian waste management, recycling, and industrial services company, that is developing the BERC EfW facility in Queensland. The facility is located within the Special Industry Precinct of the Bromelton SDA, west of Beaudesert.

The facility has been designed to thermally treat 380,000 tonnes per annum of waste feedstock, consisting of residual municipal solid waste and residual commercial and industrial waste, which is waste that would otherwise be sent to landfill. Residual waste is waste that is left over from recycling and resource recovery operations and waste from source separated collections. Source separation involves separating waste into common material streams or categories for separate collection, to facilitate recycling and resource recovery. Waste feedstock processed by the BERC will be subject to a waste acceptance protocol to determine eligibility and suitability for acceptance and processing both prior to and upon arrival onsite.

The EfW process would generate approximately 50 MW gross of electricity, 4.7 MW of which would be used to power the facility itself and the associated onsite by-product and residue handling processes, with the remainder (or a percentage of) exported to the grid as base load electricity. In addition to supplying electricity to the grid, there is also potential to supply energy in the form of heat and process steam to local industrial users.

Some residual materials are produced by the EfW process, including incinerator bottom ash (IBA), boiler ash and flue gas treatment residue. The boiler ash and flue gas treatment residue are typically combined and together are referred to as Air Pollution Control residue (APCr). Overall, the EfW process typically leads to about 90% reduction in the volume, or 80% reduction in mass, of waste that would otherwise go to landfill. If IBA is reused as an alternative construction product to virgin materials, this percentage increases further to approximately 95% reduction in volume and mass of waste that would otherwise go to landfill. The final volume of waste diverted from landfill is dependent on the classification and market for the residues and by-products generated by the EfW facility.

The project involves the building of all onsite infrastructure required to support the EfW facility, including site utilities, internal roads, weighbridges, parking and hardstand areas, stormwater infrastructure, fencing and landscaping. This includes the construction and operation of an IBA maturation and processing facility on site. The purpose of this facility is to store the IBA to mature (stabilise) it, before mechanically processing it into an aggregate for reuse in construction applications. As part of this process, both ferrous and non-ferrous metals will be recovered from the IBA for recycling and sale to the scrap metal market. The project also includes a stabilisation facility for APCr, a necessary treatment step to immobilise leachable components of the APCr prior to offsite removal by vehicles and disposal at an appropriately licenced landfill.

In addition to the above, a visitor and education centre will be built to help educate and inform the community on circular economy principles, the waste hierarchy, including waste avoidance, recycling, resource recovery, the benefits of landfill diversion and the EfW process. The intent behind this education is to drive a shift in community thinking and actions around waste management.

In accordance with Queensland Energy from Waste (EfW) Policy (2021) guidance, the BERC is being designed to meet the best practice emission standards and requirements of the European Industrial Emissions Directive (2010) and the associated Best Available Techniques Reference

Document for Waste Incineration published December 2019, which sets the European Union environmental standards for waste incineration.

The BERC will use best available techniques and technologies in the engineering design, operation, maintenance and monitoring activities associated with the project. Moving grate technology has been chosen as the means to thermally treat incoming waste to recover energy and other resources. The moving grate combustion system is a common form of thermal EfW technology in which the waste is fed through the combustion chamber on a travelling grate. This enables efficient and complete combustion of the waste, with primary combustion air introduced from below the grate and secondary combustion air introduced directly into the combustion zone above the grate.

Moving grate technology has been used globally for over 100 years, and in that time the technology has been subject to continual improvement responding to regulatory, industry and public demands. There are approximately 500 similar operational examples across Europe alone, most of which use the moving grate-type technology proposed for the BERC. Current international best-practice techniques, including automated combustion controls and advanced flue gas treatment technology will be applied so that air emissions meet stringent emission standards.

The Queensland EfW Policy aims to guide EfW activities in Queensland in a manner that safeguards human and environmental health, whilst recognising the role of EfW in diverting waste from landfills, helping Queensland transition to a circular economy. The policy has been developed to support implementation of Queensland's *Waste Management and Resource Recovery Strategy* (the Waste Strategy), by providing a high-level outline of stakeholder engagement expectations, Environmental Authority (EA) application requirements and environmental regulation of EfW facilities.

The facility will also comply with the technical criteria set out in the Queensland Energy from Waste Guideline (2021), an operational Guideline that provides detailed guidance on the application and implementation of the Energy from Waste Policy (2021).

The Waste Strategy envisions Queensland as a zero-waste society, where waste is avoided, reused and recycled as much as practicable, as part of a transition to a circular economy. This vision is supported by 2050 targets to reduce household waste by 25%, recycle 75% of all waste, and divert 90% of all waste from landfill. Under the Waste Strategy and Strategic Priority 2 – Transitioning to a circular economy, a key action was the development of the EfW Policy (2021). Under the Policy, there are seven outcomes to guide the assessment of EfW facilities, these include:

- protect the waste hierarchy;
- demonstrate operational performance;
- engage with the community;
- residual waste as feedstock;
- adapt to residual waste changes;
- energy recovery requirements; and
- environmental protection requirements.

3. Background

In May to October 2023, Douglas conducted a PSI at the site (Douglas, 2023). The scope of works for the PSI comprised a desktop review of the site's history, a site inspection, soil sampling from 14 boreholes, groundwater sampling from two groundwater monitoring wells and laboratory analysis of selected soil and groundwater samples. A summary of findings for the PSI report are presented below:

- The aerial photograph review indicated that the site has been used for agricultural purposes since at least 1944;
- A 'dip', Douglas presumes to be a cattle/livestock dip, was marked within the central-northern portion of the site on the 1927 Historical Map, contained within the Lotsearch report provided in Appendix C of the PSI report. The exact location of this dip is unknown, however it appears to be in a similar location on-site to the current spray race;
- A former cattle spray race is currently located on the site. The aerial photographs, contained within the Lotsearch report, indicate that the surrounding cattle pens were constructed sometime between 1965 and 1974. However, it is unknown when the spray race was used at the site;
- The intrusive soil investigation indicated that contamination has not been detected at the locations and depths tested at concentrations that are considered to present a risk of harm to potential human and ecological receptors when compared against the adopted site assessment criteria (SAC) for commercial/industrial site use;
- However, it should be noted that as this was a preliminary site investigation only, the sampling density was significantly less than the recommended minimum sampling density for site characterisation (NSW, 2022), and the potential exists for contaminated soil to be present across parts of the site that have not been investigated by soil sampling and laboratory analysis (e.g., in the area of the former spray race);
- Exceedances were detected above the adopted SAC for pH, EC, turbidity and metals in the groundwater samples collected from both groundwater monitoring wells; and
- Exceedances were detected above the adopted SAC for pH, turbidity, metals and nutrients in the surface water samples collected from the dams.

A preliminary CSM was developed to identify potential contamination sources, human and environmental receptors and potential pathways. Potential contamination sources included agricultural activities, the spray race and potential historical cattle dip. The CoPC for agricultural activities were identified to include metals/metalloids, ammonia, nitrates, phosphorus, organochlorine pesticides (OCP), organophosphorus pesticides (OPP), per- and polyfluoroalkyl substances (PFAS) and asbestos (from the demolition of structures). The CoPC for the spray race and potential cattle dip were identified to include arsenic, carbamate pesticides, OCP, OPP, synthetic pyrethroids and herbicides. Potential human receptors include future construction and maintenance workers, end users (i.e., workers and visitors to the BERC) and adjacent site users, while potential environmental receptors include surface water, groundwater and terrestrial organisms.

Based on the above findings, it was recommended that intrusive soil sampling and analysis for the identified CoPC should be conducted in the location of the spray race.

4. Site Information

The site identification details are presented in Table 1 below. The site location and approximate site boundary are shown in Drawing 1 provided in Appendix B.

Table 1: Site Identification Details

Item	Details
Site Address	Lot 1 Beaudesert Boonah Road, Bromelton QLD
Real Property Description	Part of Lot 1 on RP45234
Site Area	Site: 21 ha Spray race investigation area: approximately 1,600m ²
State Development Area	Bromelton SDA
SDA Development Scheme	Special Industry Precinct
Local Council Area	Scenic Rim Regional Council (SRRC)
SRRC Planning Scheme	Special Purpose Zone
Current Land use	Grazing land
Surrounding Land Uses	North – Industrial East – Railway line then grazing South – Grazing West – Grazing

4.1 Site Description

As part of the PSI a site walkover inspection was conducted on 3 July 2023. Photographs are included in the PSI report which is provided in Appendix C. The following observations were noted:

- At the time of the inspection the site was used for cattle grazing. The site surface was densely covered with groundcover (i.e., grasses) and a sparse covering of trees (photograph 1). The vegetation generally appeared healthy and in good condition.
- A cattle crush and adjoining cattle pens were observed in the north-western portion of the site (photographs 2, 3 and 4). Infrastructure and pipes, associated with a cattle spray race, were also observed attached to the cattle crush (photographs 5, 6 and 7). The cattle crush was measured to be approximately 20 m in length and 1 m wide. The spray race proportion of the cattle crush was approximately 4 m in length. Two cattle pens were observed joining the cattle crush which were each measured to cover an area of approximately 70 m² (photographs 3 and 4). Bare ground (i.e., sparse groundcover growth) appeared to surround the area of the spray race (photographs 5 and 8). A rectangular concrete pad was observed on the ground in the entrance of the cattle crush (photographs 9 and 10). The pad was noted to be in poor condition.
- A rusted tray from a ute was observed within the southern portion of the site.

- Two dams were observed directly south of the site, however, they were located within Lot 1 on RP45234 (photographs 11 and 12).
- The site surface was undulating, however, the site generally sloped downward to the south-east (photograph 1).
- No obvious PACM were observed across the surface of the site, where visible.
- No obvious odours, soil staining or storage of bulk chemicals were encountered across the inspected areas of the site.

4.2 Listing on Contamination Registers

A search was conducted of the QLD DESI EMR and CLR on 18 May 2023. The search results indicated that the site was not listed on the EMR or CLR. A copy of the EMR/CLR listing is presented in the PSI report (refer to Appendix C).

4.3 Environmental Setting

Further details regarding the site's environmental setting are included in the PSI report, provided in Appendix C. A summary is presented below:

- Topography: the site slopes from the crest of a hill in the western portion of the site, which has an approximate elevation of relative level (RL) 95 m relative to the Australian Height Datum (AHD), sloping down to the north-western and south-eastern corners of the site, with elevations of 85 m AHD and 75 m AHD respectively;
- Geology: the site is underlain by middle-Jurassic aged Walloon Coal Measures, comprising '*shale, siltstone, sandstone and coal seams*';
- Acid sulfate soils (ASS): the site is classified as having an extremely low (1 to 5%) probability of occurrence of ASS;
- Surface water: man-made dams and a drainage channel are present close to the southern site boundary. This then appears to drain into Lake Brabazon located 3.7 km north-east of the site. Swan Creek is also located approximately 220 m south of Lot 1 on RP45234, and is part of a separate catchment to the drainage channel located on the site; and
- Groundwater: the anticipated flow direction of groundwater beneath the site is to the south-east towards the dams and drainage channel which drains into Lake Brabazon. During the field investigation for the PSI and this investigation, the depth to groundwater was measured within the groundwater wells prior to sampling. The groundwater table at the site was encountered at depths ranging between 11.4 m and 15.4 m bgl.

5. Sampling and Analysis Plan and Methodology

5.1 Data Quality Objectives

DQOs are qualitative and quantitative statements that specify the type of data required for the assessment. The DQO process is a seven-step iterative planning approach that is specified in the NEPM (Schedule B2, Appendix B) used to define the type, quantity and quality of data needed to inform decisions relating to the environmental condition of a site. DQOs for this assessment were developed in accordance with this seven-step DQO process and are summarised below in Table 2.

Table 2: Project DQOs

Problem	Uncertainty exists regarding the contamination status of the area surrounding the spray race at the site.
Identify the Decision/Goal	- Are there any obvious signs of potential soil or groundwater contamination within the area surrounding the spray race? - Does the site, or is the site likely to, present a risk of harm to human health or the environment? - Are there any significant contamination issues that could restrict the proposed development? - Does the site require remediation and/or validation to render the site suitable for the proposed use?
Information Inputs	- Historical information regarding past land uses and features; - Site operations and observation details; - Soil profile information obtained through the sampling phase; - Chemical analysis data for soil and groundwater samples analysed; and - Assessment of analytical data against applicable SAC.
Study Boundaries	The physical site boundary is shown on Drawing 1, Appendix B. The temporal boundary of this assessment is limited to the time at which the assessment was conducted.

Decision Rules	Information obtained in this investigation is to be used to assess contamination issues likely to impact on the proposed development. In assessing analytical data against screening levels for ecological and/or human health risk, site conditions can be stated to be acceptable if either: • All results are below the relevant screening level; OR • Individual concentrations of analytes (non-volatile) are less than 250% of the relevant screening level; • The 95% upper confidence limit (UCL) of arithmetic mean concentrations of a data set for samples of like material is below the relevant screening level; and • The standard deviation of the population is less than 50% of the relevant screening level. Statistical analysis needs only be conducted where analytical results for a contaminant of concern are recorded above, but less than 250% of the relevant screening level. Laboratory results are accepted and considered suitable for this assessment under the following conditions: • All laboratories are NATA accredited for all analyses to be performed; • All PQLs, or LORs set by the laboratories fall below the adopted assessment criteria; • Reported concentrations of analytes in the replicate and/or split sample pairs are within accepted limits; and QA/QC protocols and results reported by the laboratories comply with the requirements of the NEPM (Schedule B3).
Performance Criteria	Analyte selection is based on available site history information, observed site activities, site features, and field observations during sampling. The potential for contaminants to be present other than those analysed is considered to be low. Assessment criteria adopted from the guidelines stated in Section 6 incorporate risk probabilities. Acceptable limits for replicate/split comparisons are described in Appendix D. Acceptable limits for laboratory QA/QC parameters are based on those stated by the laboratory and those stated in the NEPM (Schedule B3).

Optimise Design	Locate sampling points on a systematic grid pattern and to target potential sources of contamination as described in Section 5.3.1. Procedures for collection of environmental samples, as described in Section 5.3.2 and 5.4.3 were developed prior to undertaking the assessment phase of works with reference to the NEPM, NSW EPA 2022, and current good industry practice. Use of NATA accredited analytical laboratories to conduct sample analyses.
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5.2 Summary of Field Methodologies

The field investigation was conducted by Douglas Environmental Scientist, Jesse Wotton, on 15, 17, 18 and 22 January 2024 and comprised of the following activities:

- Drilling of one borehole (designated Bore 101) to a depth of 18 m bgl using a truck-mounted drilling rig equipped with solid flight augers and installation of a groundwater monitoring well;
- Drilling of 25 boreholes (designated Bores 102 to 126) to depths between 0.5 m and 1.0 m bgl using a mechanical drilling rig with push tube sampling capability;
- Collection of soil samples from each borehole at various depth intervals;
- Collection of an additional three surface soil samples (designated 127 to 129);
- Collection of one groundwater sample from the groundwater monitoring well and collection of an additional two groundwater samples from previously installed wells at the site; and
- Collection of additional soil samples for quality control QC purposes.

5.3 Soil Sampling

5.3.1 Sampling Strategy

Twenty-nine sampling locations were selected according to a combined judgemental and systematic sampling strategy (or as reasonably close to a systematic grid pattern as could be achieved regarding the presence of existing site features and underground services), in order to target specific areas within the spray race while also providing general coverage of the spray race and surrounding area.

Sixteen of the locations were placed across the spray race area on a general systematic pattern (Bores 101 to 116). This sampling density (i.e., sixteen systematic sampling points) exceeds the recommended sampling density presented in Table 2 of NSW EPA (2022) for characterisation of an area of up to 1,600 m². In addition, thirteen of the locations (Bores 117 to 126 and surface sampling locations 127, 128 and 129) were judgementally selected to target specific areas in the spray race (i.e., directly next to the race and in the potential drying paddocks).

The sampling locations are shown on Drawing 2 provided in Appendix B.

5.3.2 Sampling Methodology and Handling

To obtain representative samples and to maintain their integrity soil was sampled with reference to the National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) (the 'NEPM') and standard operating procedures described in Douglas' Field Procedures Manual.

For each borehole the lithologies that were encountered were logged. The soil profiles encountered and sampled are described on the borehole logs attached in Appendix E. All soil samples were recorded on Douglas chain of custody sheets, and the general sampling procedure comprised:

- Collection of samples from either soil in push tubes that were opened shortly after extraction from the borehole or directly from the drilling augers. Samples collected from the augers were obtained from the outside of the augers, i.e., from soil that had not been in direct contact with the augers;
- Sampler wearing disposable gloves that were changed prior to the collection of each sample;
- Transfer of samples into laboratory-prepared glass jars with Teflon-lined lids and sealing immediately;
- Various sampling for QC purposes (refer to Appendix D);
- Labelling of sample containers with individual and unique identification details, including project number and sample location; and
- Placement of the sample jars into ice-cooled, insulated and sealed containers for transport to the laboratory.

Sample integrity was maintained by keeping all samples sealed in appropriate jars and in ice-cooled, insulated containers immediately after sampling. Samples were sent to the laboratory following the completion of sampling with ice present. Samples were all received by the laboratory in good condition, in the correct containers without headspace, and within the laboratory's recommended holding times. It is considered that the integrity of samples was preserved during temporary storage and transportation to the laboratory. CoC and sample receipt documentation is provided in Appendix F.

5.4 Groundwater Monitoring Well Installation and Sampling

5.4.1 Groundwater Monitoring Well Sampling Strategy

The groundwater monitoring well was positioned in order to target the spray race. It was located immediately adjacent to, and topographically downgradient from, the spray race. The groundwater monitoring well location is shown on Drawing 2, Appendix B.

5.4.2 Groundwater Monitoring Well Installation Methodology

The groundwater monitoring well was installed under the supervision of Douglas Environmental Scientist, Jesse Wotton. The installation method comprised:

- Drilling of a 100 mm diameter borehole to a depth of 18 m bgl (i.e., in order to install the well approximately 3.0 m below the groundwater level observed during drilling). The borehole

was drilled using auger drilling techniques to 2.5 m and then wash bore techniques to the termination depth;

- Installation of a groundwater monitoring well in the borehole using 50 mm diameter uPVC casing and factory-slotted screens. The screens were connected to casing at a depth above the groundwater table so that LNAPLs are detectable with an interface probe if present;
- Placing filter packs consisting of 2-3 mm graded sand (washed) in the annulus between the bore wall and casing/screens;
- Placing a bentonite seal in the annulus above the screens to prevent surface water from entering the well and impacting on groundwater; and
- Developing the well after installation using a bailer to induce a surging action, to remove any fine sediment and clay particles from the screen.

Construction details and the standing water level for the well are summarised below in Table 3 and are also illustrated on the corresponding borehole log for MW1.

Table 3: Monitoring Well Construction Details

Bore ID	Total Bore Depth (m bgl)	Screen Interval (m bgl)	Filter Pack (m bgl)	Bentonite Seal (m bgl)	Standing water level (m bgl) ¹
101	18.0	12.0 – 18.0	11.0 – 18.0	0.5 – 11.0	17.49

Notes

- 1 As measured during sampling on 22 January 2024

5.4.3 Groundwater Sampling Methodology and Handling

Douglas Environmental Scientist, Jesse Wotton, sampled the new well and two previously installed wells on 22 January 2024. To ensure the samples were representative and to maintain their integrity groundwater sampling was carried out with reference to the standard operating procedures described in Douglas' Field Procedures Manual. Samples were recorded on a CoC sheet, and the general sampling procedure comprised:

- Gauging of the depth to groundwater using an interface probe;
- Purging the wells of approximately three well volumes (or until dry) to ensure that a representative groundwater sample was collected;
- Measuring of groundwater field parameters using a calibrated TPS Aqua – pH and electroconductivity (EC) meter and a Eutech TN-100 Turbidity Meter. Field parameters measured are tabulated in Table 2 provided in Appendix G;
- Collection of representative groundwater samples from each well using a disposable bailer;
- Transfer of samples directly into appropriate laboratory-prepared containers;
- Field-filtering of samples through a disposable 0.45 µm filter for dissolved metal analysis;
- Labelling of sample containers with individual and unique identification details, including project number and sample location;
- Various sampling for QC purposes (refer to Appendix D); and

- Placement of the sample bottles immediately after sampling into ice-cooled, insulated and sealed containers.

Sample integrity was maintained by keeping all samples in sealed glass and plastic receptacles and in ice-cooled, insulated containers immediately after sampling. Samples were sent to the laboratory with ice present on the same day as sampling.

5.5 Rationale for Selection of Laboratory Analyses

5.5.1 Soil Samples

A total of 101 primary soil samples were collected during the field investigation and sent to Eurofins laboratory, located at 26 Smallwood Place, Murarrie, QLD. Generally, two samples from each borehole location were selected for analysis, however from Bores 110, 111 and 112 only one sample was selected. The three additional surface soil samples were also selected for analysis. In total, 52 primary samples were analysed for arsenic, carbamate pesticides, OCP, OPP, synthetic pyrethroids and herbicides.

5.5.2 Groundwater Samples

Three primary groundwater samples were collected, sent to Eurofins and analysed for a suite of CoPC including arsenic, carbamate pesticides, OCP, OPP, synthetic pyrethroids and herbicides.

5.6 Quality Assurance and Quality Control

QA and QC measures were implemented throughout the investigation. QA/QC measures for the investigation were achieved by evaluating the QA/QC information against the defined DQOs (Table 2) for the project. The field QC sampling programme is summarised in Table 4 below and evaluated in Appendix D.

Table 4: Field QC Schedule

Item	Frequency and Analysis	Acceptance Criteria
Intra-laboratory replicate (soil) ¹	10% primary soil samples (one in 10) for arsenic	RPD <30%
Inter-laboratory replicate (soil) ¹	5% primary soil samples (one in 20) for arsenic	RPD <30%
Trip Blank ²	One per field batch for TRH C ₆ -C ₁₀ and BTEX	<LOR
Trip Spike ²	One per field batch for TRH C ₆ -C ₁₀ and BTEX	Recovery: 70 - 140%

Notes:

- 1 Intra-laboratory replicates are analysed as an internal check of the reproducibility of results within the primary laboratory (Eurofins) and as a measure of consistency of sampling techniques. Similarly inter-laboratory replicates are analysed as a check of the reproducibility of results between the primary laboratory (Eurofins) and an external secondary laboratory (ALS). RPD values are calculated as a measure of the relative difference (expressed as a percentage) between the analytical results of the original and replicate samples.
- 2 Trip blank and trip spike samples are taken to site during the field work, stored in the same container used to store the field samples and transported to the laboratory with the field samples. Trip blank samples are analysed to determine whether cross-contamination of the samples was likely to have occurred. Trip spike samples are analysed to determine whether significant loss of volatile contaminants may have occurred.

Three intra-laboratory soil samples, four trip blank samples and four trip spike samples were analysed by Eurofins for QC purposes. Three inter-laboratory soil samples were collected and analysed by Australian Laboratory Services Pty Ltd (ALS), located at 2 Blyth Street, Stafford, Brisbane, for QC purposes. Both laboratories are NATA accredited for the analysis undertaken.

6. Site Assessment Criteria

6.1 Soil SAC

The SAC applied in the current investigation are informed by the preliminary CSM which identified human and ecological receptors to potential contamination on the site. Analytical soil results were compared against the investigation and screening levels presented in Schedule B1 of the NEPM (NEPC, 2013). NEPC (2013) is endorsed by the DESI under the *National Environment Protection Council Act 1994*.

The NEPM guidelines are applicable to generic land use settings and include consideration of the soil type and depth of parameters for some analytes. They are broadly divided into two groups, HIL/HSLs representing risks to human receptors, and EIL/ESLs representing risks to ecological and/or environmental receptors. Screening levels are not intended to be used as clean-up levels; rather, they establish concentrations above which further investigation should be conducted. They are intentionally conservative and are based on a reasonable worst-case scenario.

Given the proposed development the following criteria were adopted for this investigation:

- HIL/HSL – D: Commercial/industrial land use scenario; and
- EIL/ESL for a commercial/industrial land use scenario. Broadly consistent with the HIL/HSL selected above.

The soil results will also be compared with the HILs and HSLs for a low-density residential use scenario (HIL – A and HSL – A/B) and EILs for residential, parkland and public open space, as these criteria are used to establish if contamination is present and off-site disposal options.

EILs were adopted for selected metals and organic compounds and are applicable for assessing risk to terrestrial ecosystems (NEPC, 2013). EILs depend on specific soil physiochemical properties and land use scenarios and generally apply to the top 2 m of soil, which corresponds to the root zone and habitation zone of many species. The EIL is determined for a contaminant based on the sum of the ABC and an ACL. The EIL is calculated using the following formula:

- $EIL = ABC + ACL$

EILs were derived using the Interactive (Excel) Calculation Spreadsheet (from the NEPM Toolbox on the NEPC website) using input parameters of Queensland (the State in which the site is located), and low traffic volumes. Two samples collected from undisturbed areas of the site were analysed for % iron, CEC, pH, TOC and % clay content. The results of these samples were averaged and used as input parameters in the Interactive (Excel) Calculation Spreadsheet. The soils have been measured to have an average pH of 6.6, CEC of 49 cmol/kg, TOC of 0.45 %, % iron of 3.45 % and % clay of 14.5 %.

6.2 Groundwater SAC

Surface water quality should meet the WQOs set for waters local to the site. WQOs for moderately disturbed, lowland freshwaters of the Western Logan River Fresh Waters in the Logan River Basin (DESI 2022, Table 2) were adopted to assess water quality at the site in comparison with the expected regional conditions.

Regional guidelines were prioritised to allow for assessment against local conditions. The following guidelines were applied to assess water analytical data from the site in the following order of priority: DESI (2022: Table 2), ANZG (2018: Table 3.4.1, trigger values for 95% protection of slightly-moderately disturbed freshwater ecosystems), NEPC (2013: Schedule B1, Table 1C Groundwater Investigation Levels (GILs) for freshwater aquatic ecosystems) and Table 10.6 of the 2011 Australian Drinking Water Guidelines (ADWG) (NRMCC, 2022). Guideline values for PFAS in groundwater were derived from the PFAS NEMP (HEPA, 2020: Table 5, Ecological water quality guideline values for 95% protection of freshwater ecosystems).

7. Ground Conditions

Details of the subsurface conditions encountered in the boreholes are given on the borehole logs provided in Appendix E. The logs should be read in conjunction with the notes 'About this Report' and other explanatory notes provided in Appendix A, which comment on the sampling methods, soil descriptions, and symbols and abbreviations used in their preparation.

In summary, the subsurface conditions generally comprised **topsoil** over **residual clay**. Further details of this profile are presented below:

- **Topsoil:** a 0.1 m to 0.2 m thick layer of sandy clay with grass roots;
- **Residual Clay:** medium or high plasticity sandy clay from below the topsoil to the borehole termination depth, or to a depth of 5.0 m in Bore 101 where rock was encountered; and
- **Sandstone:** estimated low strength, extremely to highly weathered sandstone was encountered underneath the residual clay in Bore 101 to the termination depth of 18 m.

Free groundwater was observed within Bore 101 at a depth of 15 m bgl. In relation to the groundwater depths and ground moisture condition, it must be noted that they are affected by climatic conditions, soil and rock permeability, human influences and other factors, and will therefore vary spatially, and with time.

8. Discussion of Results

8.1 Soil Results

With reference to Tables G1 and G2 provided in Appendix G, all concentrations of the CoPC analysed were below the adopted HIL/HSLs and EIL/ESLs criteria for commercial industrial use (i.e., HIL/HSL-D, applicable to the proposed development) and low-density residential use (i.e., HIL/HSL-A, used to assess for unrestricted use of excavated soil on-site or off-site).

The laboratory report and associated chain of custody documentation is provided in Appendix F, and a summary of the laboratory results is provided in Appendix G.

8.2 Groundwater Results

With reference to Tables G3 to G7 provided in Appendix G, the field-measured parameters and laboratory analytical groundwater results for the CoPC were below the adopted SAC except for the following:

- The pH values for all groundwater wells, measured to be between 5.7 and 5.9, were below the DESI (2022), ANZECC (2000) and ADWG (2011) criteria lower limit of 6.5;
- The electrical conductivity (EC) values for all groundwater wells, measured to be between 1,490 $\mu\text{S}/\text{cm}$ and 2,010 $\mu\text{S}/\text{cm}$, were above both the low flow and high flow DESI (2022) criteria of 1,200 $\mu\text{S}/\text{cm}$ and 940 $\mu\text{S}/\text{cm}$, respectively;
- The turbidity values for all groundwater wells, measured to be between 789 NTU and 1,174 NTU, were above the DESI (2022), ADWG (2011) and ANZECC (2000) criteria; and
- Arsenic in samples MW101 and MW9 reported at concentrations of 160 $\mu\text{g}/\text{L}$ and 76 $\mu\text{g}/\text{L}$, respectively, which exceeded the adopted ANZG (2018) and NEPC (2013) GIL criterion of 24 $\mu\text{g}/\text{L}$ and ADWG (2011) criterion of 10 $\mu\text{g}/\text{L}$.

No other potential contaminants were present in concentrations above the LOR. It is noted that the LOR for several carbamate pesticides, synthetic pyrethroids, OCP, OPP and acid herbicides exceed the adopted criteria, however, as no detections for any of these analytes were reported at concentrations above the LOR, in either soil or groundwater, they are not considered to affect the interpretation of the data with respect to the potential presence of contamination within groundwater.

9. Revised CSM

A preliminary CSM was prepared for the site during the PSI stage and was based on the site history review, site inspection and field investigations including limited analytical results (Douglas, 2023).

The data collected during this investigation generally confirmed that for certain potential contaminant sources outlined in the preliminary CSM, potentially complete pathways to the identified receptors exist, whereas for others, they do not.

Potential Sources (S)

Based on the current and previous investigations, the following potential sources of contamination and associated CoPC have been identified.

- S1: Agricultural activities.
 - o Various CoPC and could include metals/metalloids, ammonia, nitrates, phosphorus, OPP, OCP, PFAS and asbestos (from demolition of structures).
 - o Although the preliminary soil contamination assessment conducted during the PSI did not indicate the presence of significant contamination at those test locations, the sampling density adopted for the PSI did not meet recommended minimum sampling density to characterise the site for contamination hotspots (NSW EPA, 2022).
- S2: Spray race and potential historic cattle dip (as shown on the 1927 Historical Map).
 - o Based on the results of the investigations, there does not appear to be any significant soil contamination associated with the spray race. However, elevated concentrations of arsenic were reported in groundwater sampled from the most recently installed groundwater well MW101 (160 µg/L, exceeding the SAC of 24 µg/L), and from previously installed groundwater well MW9 (76 µg/L). The other well sampled (MW7) reported an arsenic concentration of 4 µg/L. As MW101 and MW9 are the wells located closest to the spray race, the elevated arsenic may be related to historical cattle dip/spray race activities.

Potential Receptors (R)

The following potential human receptors have been identified:

- R1: Future construction and maintenance workers;
- R2: End users (i.e., workers and visitors to the BERC); and
- R3: Adjacent site users.

The following potential environmental receptors have been identified:

- R4: Surface water ecology (nearby dams, watercourses and drainage channels);
- R5: Groundwater and GDE; and
- R6: Terrestrial ecology, including nearby MSES areas.

Potential Pathways (P)

The following potential pathways have been identified:

- P1: Ingestion and dermal contact;

- P2: Inhalation of dust, fibres and/or vapours;
- 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: Inhalation, ingestion, and absorption by terrestrial ecology.

Summary of Potentially Complete Exposure Pathways

A 'source–pathway–receptor' approach has been used to assess the potential risks of harm being caused to human or environmental receptors from contamination sources on or in the vicinity of the site, via exposure pathways (potential complete pathways). The possible pathways (P1 to P6) between the above sources (S1 to S2) and receptors (R1 to R6) are provided below in Table 5.

Table 5: Summary of Potentially Complete Exposure Pathways

Source and CoPC	Transport Pathway	Receptor
S1: Agricultural activities – metals/metalloids, ammonia, nitrates, phosphorus, OPP, OCP, PFAS and asbestos. S2: Spray race and potential cattle dip – arsenic	P1: Ingestion and dermal contact	R1: Construction and maintenance workers
	P2: Inhalation of dust, fibres and/or vapours	R2: End users
		R3: Adjacent site users
	P3: Surface water run-off	R4: Surface water ecology
	P4: Leaching of contaminants and vertical migration into groundwater	R5: Groundwater and GDE
	P5: Lateral migration of groundwater providing base flow to water bodies	R4: Surface water ecology
	P6: Inhalation, ingestion, and absorption by terrestrial ecology	R6: Terrestrial ecology

10. Conclusions and Recommendations

10.1 Conclusions

Based on the investigations described in this report, the following conclusions are made:

- The intrusive soil investigation of the spray race indicated that soil contamination has not been detected at the locations and depths tested at concentrations that are considered to present a risk of harm to potential human and ecological receptors;
- The groundwater investigation indicated that pH, EC and turbidity values did not meet the adopted SAC guidelines in all monitoring wells. The concentrations of arsenic in the groundwater samples collected from MW101 and MW9 exceeded adopted SAC, however, the remainder of CoPCs reported concentrations less than the LOR. The reported arsenic exceedances could be associated with historical site use;
- The spray race area is considered suitable for the proposed BERC development; and
- While no contamination was identified during the PSI (Douglas, 2023), it should be noted that the sampling density (for the entire site area) was less than the recommended minimum sampling density for site characterisation (NSW, 2022), and the potential exists for contaminated soil to be present across parts of the site that have not been investigated by soil sampling and laboratory analysis.

10.2 Recommendations

- The remainder of the site is considered to present a lower risk of contamination. Some potential for contamination still exists due to the site's history of agricultural use. If a detailed site investigation (DSI) over the larger site area is required, sampling should be conducted at sufficient density to meet the recommended minimum density detailed in NSW EPA (2022);
- If discharge of groundwater is proposed, then treatment would be required due to the reported exceedances of the SAC; and
- Should the site be developed without further investigation over the large site area, Douglas recommends the preparation and implementation of a UFP. The UFP should be included in early works/bulk earthworks environmental management plans at the site. Unexpected finds would typically be able to be identified by visual or olfactory indicators and could include, inter alia:
 - o Waste materials in fill, including building and demolition waste;
 - o Fibrous cement fragments (e.g., asbestos-containing materials);
 - o Stained or malodorous fill or soil; and
 - o Ash and/or slag.

In the event of an unexpected find, a suitably qualified contaminated land consultant should be engaged to inspect the find and provide advice on the appropriate course of action.

11. References

ANZECC. (2000). *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. Australia and New Zealand Environment and Conservation Council.

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NSW EPA. (2022). *Sampling Design, Part 1: Application; Part 2: Interpretation*. NSW Environment Protection Authority.

QLD Government. (1994). Environmental Protection Act, Queensland. Office of Queensland Parliamentary Council.

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12. Limitations

Douglas Partners (Douglas) has prepared this report for this project at Lot 1 Beaudesert Boonah Road, Bromelton QLD in accordance with Douglas' proposal dated {5 October 2023} and acceptance received from Karsten Forsterling of Cleanaway Operations Pty Ltd. The work was carried out under Douglas' Engagement Terms. This report is provided for the exclusive use of Cleanaway Operations Pty Ltd for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of Douglas, does so entirely at its own risk and without recourse to Douglas for any loss or damage. In preparing this report Douglas has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are indicative of the sub-surface conditions on the site only at the specific sampling and/or testing locations, and then only to the depths investigated and at the time the work was carried out. Sub-surface conditions can change abruptly due to variable geological processes and also as a result of human influences. Such changes may occur after Douglas' field testing has been completed.

Douglas' advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by Douglas in this report may be affected by undetected variations in ground conditions across the site between and beyond the sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

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

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. Douglas cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by Douglas. This is because this report has been written as advice and opinion rather than instructions for construction.

Appendix A

About this Report

Terminology, Symbols and Abbreviations

Soil Descriptions

Rock Descriptions

Sampling, Testing and Excavation Methodology

Introduction

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

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

Copyright

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

Borehole and Test Pit Logs

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

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

Groundwater

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

- In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;
- A localised, perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be the same at

the time of construction as are indicated in the report; and

- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

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

Reports

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

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

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

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

continued next page

About this Report

Site Anomalies

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

Information for Contractual Purposes

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

Site Inspection

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

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Introduction to Terminology, Symbols and Abbreviations

Douglas Partners' reports, investigation logs, and other correspondence may use terminology which has quantitative or qualitative connotations. To remove ambiguity or uncertainty surrounding the use of such terms, the following sets of notes pages may be attached Douglas Partners' reports, depending on the work performed and conditions encountered:

- Soil Descriptions;
- Rock Descriptions; and
- Sampling, insitu testing, and drilling methodologies

In addition to these pages, the following notes generally apply to most documents.

Abbreviation Codes

Site conditions may also be presented in a number of different formats, such as investigation logs, field mapping, or as a written summary. In some of these formats textual or symbolic terminology may be presented using textual abbreviation codes or graphic symbols, and, where commonly used, these are listed alongside the terminology definition. For ease of identification in these note pages, textual codes are presented in these notes in the following style **XW**. Code usage conforms with the following guidelines:

- Textual codes are case insensitive, although herein they are generally presented in upper case; and
- Textual codes are contextual (i.e. the same or similar combinations of characters may be used in different contexts with different meanings (for example `PL` is used for plastic limit in the context of soil moisture condition, as well as in `PL(A)` for point load test result in the testing results column)).

Data Integrity Codes

Subsurface investigation data recorded by Douglas Partners is generally managed in a highly structured database environment, where records "span" between a top and bottom depth interval. Depth interval "gaps" between records are considered to introduce ambiguity, and, where appropriate, our practice guidelines may require contiguous data sets. Recording meaningful data is not always appropriate (for example assigning a "strength" to a concrete pavement) and the following codes may be used to maintain contiguity in such circumstances.

Term	Description	Abbreviation Code
Core loss	No core recovery	KL
Unknown	Information was not available to allow classification of the property. For example, when auguring in loose, saturated sand auger cuttings may not be returned.	UK
No data	Information required to allow classification of the property was not available. For example, if drilling is commenced from the base of a hole predrilled by others	ND
Not Applicable	Derivation of the properties not appropriate or beyond the scope of the investigation. For example, providing a description of the strength of a concrete pavement	NA

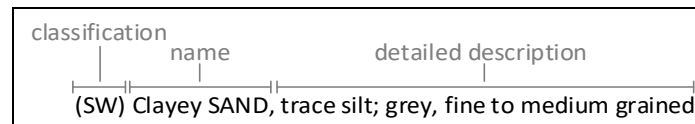
Graphic Symbols

Douglas Partners' logs contain a "graphic" column which provides a pictorial representation of the basic composition of the material. The symbols used are directly representing the material name stated in the adjacent "Description of Strata" column, and as such no specific graphic symbology legend has been provided in these notes.

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Introduction

All materials which are not considered to be “in-situ rock” are described in general accordance with the soil description model of AS 1726-2017 Part 6.1.3, and can be broken down into the following description structure:



The “classification” comprises a two character “group symbol” providing a general summary of dominant soil characteristics. The “name” summarises the particle sizes within the soil which most influence its behaviour. The detailed description presents more information about composition, condition, structure, and origin of the soil.

Classification, naming and description of soils require the relative proportion of particles of different sizes within the whole soil mixture to be considered.

Particle size designation and Behaviour Model

Solid particles within a soil are differentiated on the basis of size.

The engineering behaviour properties of a soil can subsequently be modelled to be either “fine grained” (also known as “cohesive” behaviour) or “coarse grained” (“non cohesive” behaviour), depending on the relative proportion of fine or coarse fractions in the soil mixture.

Particle Size Designation	Particle Size (mm)	Behaviour Model	
		Behaviour	Approximate Dry Mass
Boulder	>200	Excluded from particle behaviour model as “oversize”	
Cobble	63 - 200		
Gravel ¹	2.36 - 63	Coarse	>65%
Sand ¹	0.075 - 2.36		
Silt	0.002 - 0.075	Fine	>35%
Clay	<0.002		

¹ – refer grain size subdivision descriptions below

The behaviour model boundaries defined above are not precise, and the material behaviour should be assumed from the name given to the material (which considers the particle fraction which dominates the behaviour, refer “component proportions” below), rather than strict observance of the proportions of particle sizes. For example, if a material is named a “Sandy CLAY”, this is indicative that the material exhibits fine grained behaviour, even if the dry mass of coarse grained material may exceed 65%.

Component proportions

The relative proportion of the dry mass of each particle size fraction is assessed to be a “primary”, “secondary”, or “minor” component of the soil mixture, depending on its influence over the soil behaviour.

Component Proportion Designation	Definition ¹	Relative Proportion	
		In Fine Grained Soil	In Coarse Grained Soil
Primary	The component (particle size designation, refer above) which dominates the engineering behaviour of the soil	The clay/silt component with the greater proportion	The sand/gravel component with the greater proportion
Secondary	Any component which is not the primary, but is significant to the engineering properties of the soil	Any component with greater than 30% proportion	Any granular component with greater than 30%; or Any fine component with greater than 12%
Minor ²	Present in the soil, but not significant to its engineering properties	All other components	All other components

¹ As defined in AS1726-2017 6.1.4.4

² In the detailed material description, minor components are split into two further sub-categories. Refer “identification of minor components” below.

Composite Materials

In certain situations, a lithology description may describe more than one material, for example, collectively describing a layer of interbedded sand and clay. In such a scenario, the two materials would be described independently, with the names preceded or followed by a statement describing the arrangement by which the materials co-exist. For example, “INTERBEDDED Silty CLAY AND SAND”.

Classification

The soil classification comprises a two character group symbol. The first character identifies the primary component. The second character identifies either the grading or presence of fines in a coarse grained soil, or the plasticity in a fine grained soil. Refer AS1726-2017 6.1.6 for further clarification.

Soil Name

For most soils, the name is derived with the primary component included as the noun (in upper case), preceded by any secondary components stated in an adjective form. In this way, the soil name also describes the general composition and indicates the dominant behaviour of the material.

Component ¹	Prominence in Soil Name
Primary	Noun (eg "CLAY")
Secondary	Adjective modifier (eg "Sandy")
Minor	No influence

¹ – for determination of component proportions, refer component proportions on previous page

For materials which cannot be disaggregated, or which are not comprised of rock or mineral fragments, the names "ORGANIC MATTER" or "ARTIFICIAL MATERIAL" may be used, in accordance with AS1726-2017 Table 14.

Commercial or colloquial names are not used for the soil name where a component derived name is possible (for example "Gravelly SAND" rather than "CRACKER DUST").

Materials of "fill" or "topsoil" origin are generally assigned a name derived from the primary/secondary component (where appropriate). In log descriptions this is preceded by uppercase "FILL" or "TOPSOIL". Origin uncertainty is indicated in the description by the characters (?), with the degree of uncertainty described (using the terms "probably" or "possibly" in the origin column, or at the end of the description).

Identification of minor components

Minor components are identified in the soil description immediately following the soil name. The minor component fraction is usually preceded with a term indicating the relative proportion of the component.

Minor Component Proportion Term	Relative Proportion	
	In Fine Grained Soil	In Coarse Grained Soil
With	All fractions: 15-30%	Clay/silt: 5-12% sand/gravel: 15-30%
Trace	All fractions: 0-15%	Clay/silt: 0-5% sand/gravel: 0-15%

The terms "with" and "trace" generally apply only to gravel or fine particle fractions. Where cobbles/boulders are encountered in minor proportions (generally less than about 12%) the term "occasional" may be used. This term describes the sporadic distribution of the material within the confines of the investigation excavation only, and there may be considerable variation in proportion over a wider area which is difficult to factually characterise due to the relative size of the particles and the investigation methods.

Soil Composition

Plasticity

Descriptive Term	Laboratory liquid limit range	
	Silt	Clay
Non-plastic materials	Not applicable	Not applicable
Low plasticity	≤50	≤35
Medium plasticity	Not applicable	>35 and ≤50
High plasticity	>50	>50

Note, Plasticity descriptions generally describe the plasticity behaviour of the whole of the fine grained soil, not individual fine grained fractions.

Grain Size

Type	Particle size (mm)	
	Coarse	Fine
Gravel	19 - 63	6.7 - 19
	6.7 - 19	2.36 - 6.7
	2.36 - 6.7	0.6 - 2.36
Sand	0.6 - 2.36	0.21 - 0.6
	0.21 - 0.6	0.075 - 0.21
	0.075 - 0.21	

Grading

Grading Term	Particle size (mm)
Well	A good representation of all particle sizes
Poorly	An excess or deficiency of particular sizes within the specified range
Uniformly	Essentially of one size
Gap	A deficiency of a particular size or size range within the total range

Note, AS1726-2017 provides terminology for additional attributes not listed here.

Soil Condition

Moisture

The moisture condition of soils is assessed relative to the plastic limit for fine grained soils, while for coarse grained soils it is assessed based on the appearance and feel of the material. The moisture condition of a material is considered to be independent of stratigraphy (although commonly these are related), and this data is presented in its own column on logs.

Applicability	Term	Tactile Assessment	Abbreviation code
Fine	Dry of plastic limit	Hard and friable or powdery	w<PL
	Near plastic limit	Can be moulded	w=PL
	Wet of plastic limit	Water residue remains on hands when handling	w>PL
	Near liquid limit	"oozes" when agitated	w=LL
	Wet of liquid limit	"oozes"	w>LL
Coarse	Dry	Non-cohesive and free running	D
	Moist	Feels cool, darkened in colour, particles may stick together	M
	Wet	Feels cool, darkened in colour, particles may stick together, free water forms when handling	W

The abbreviation code **NDF**, meaning "not-assessable due to drilling fluid use" may also be used.

Note, observations relating to free ground water or drilling fluids are provided independent of soil moisture condition.

Consistency/Density/Compaction/Cementation/Extremely Weathered Material

These concepts give an indication of how the material may respond to applied forces (when considered in conjunction with other attributes of the soil). This behaviour can vary independent of the composition of the material, and on logs these are described in an independent column and are generally mutually exclusive (i.e it is inappropriate to describe both consistency and compaction at the same time). The method by which the behaviour is described depends on the behaviour model and other characteristics of the soil as follows:

- In fine grained soils, the "consistency" describes the ease with which the soil can be remoulded, and is generally correlated against the materials undrained shear strength;
- In granular materials, the relative density describes how tightly packed the particles are, and is generally correlated against the density index;
- In anthropogenically modified materials, the compaction of the material is described qualitatively;
- In cemented soils (both natural and anthropogenic), the cemented "strength" is described qualitatively, relative to the difficulty with which the material is disaggregated; and
- In soils of extremely weathered material origin, the engineering behaviour may be governed by relic rock features, and expected behaviour needs to be assessed based the overall material description.

Quantitative engineering performance of these materials may be determined by laboratory testing or estimated by correlated field tests (for example penetration or shear vane testing). In some cases, performance may be assessed by tactile or other subjective methods, in which case investigation logs will show the estimated value enclosed in round brackets, for example (VS).

Consistency (fine grained soils)

Consistency Term	Tactile Assessment	Undrained Shear Strength (kPa)	Abbreviation Code
Very soft	Extrudes between fingers when squeezed	<12	VS
Soft	Mouldable with light finger pressure	>12 - ≤25	S
Firm	Mouldable with strong finger pressure	>25 - ≤50	F
Stiff	Cannot be moulded by fingers	>50 - ≤100	St
Very stiff	Indented by thumbnail	>100 - ≤200	VSt
Hard	Indented by thumbnail with difficulty	>200	H
Friable	Easily crumbled or broken into small pieces by hand	-	Fr

Relative Density (coarse grained soils)

Relative Density Term	Density Index	Abbreviation Code
Very loose	<15	VL
Loose	>15 - ≤35	L
Medium dense	>35 - ≤65	MD
Dense	>65 - ≤85	D
Very dense	>85	VD

Note, tactile assessment of relative density is difficult, and generally requires penetration testing, hence a tactile assessment guide is not provided.

Soil Descriptions

Terminology
Symbols
Abbreviations

Compaction (anthropogenically modified soil)

Compaction Term	Abbreviation Code
Well compacted	WC
Poorly compacted	PC
Moderately compacted	MC
Variably compacted	VC

Cementation (natural and anthropogenic)

Cementation Term	Abbreviation Code
Moderately cemented	MOD
Weakly cemented	WEK

Extremely Weathered Material

AS1726-2017 considers weathered material to be soil if the unconfined compressive strength is less than 0.6 MPa (i.e. less than very low strength rock). These materials may be identified as “extremely weathered material” in reports and by the abbreviation code **XWM** on log sheets. This identification is not correlated to any specific qualitative or quantitative behaviour, and the engineering properties of this material must therefore be assessed according to engineering principles with reference to any relic rock structure, fabric, or texture described in the description.

Soil Origin

Term	Description	Abbreviation Code
Residual	Derived from in-situ weathering of the underlying rock	RS
Extremely weathered material	Formed from in-situ weathering of geological formations. Has strength of less than ‘very low’ as per as1726 but retains the structure or fabric of the parent rock.	XWM
Alluvial	Deposited by streams and rivers	ALV
Estuarine	Deposited in coastal estuaries	EST
Marine	Deposited in a marine environment	MAR
Lacustrine	Deposited in freshwater lakes	LAC
Aeolian	Carried and deposited by wind	AEO
Colluvial	Soil and rock debris transported down slopes by gravity	COL
Slopewash	Thin layers of soil and rock debris gradually and slowly deposited by gravity and possibly water	SW
Topsoil	Mantle of surface soil, often with high levels of organic material	TOP
Fill	Any material which has been moved by man	FILL
Littoral	Deposited on the lake or seashore	LIT
Unidentifiable	Not able to be identified	UID

Cobbles and Boulders

The presence of particles considered to be “oversize” may be described using one of the following strategies:

- Oversize encountered in a minor proportion (when considered relative to the wider area) are noted in the soil description; or
- Where a significant proportion of oversize is encountered, the cobbles/boulders are described independent of the soil description, in a similar manner to composite soils (described above) but qualified with “MIXTURE OF”.

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Rock Strength

Rock strength is defined by the unconfined compressive strength, and it refers to the strength of the rock substance and not the strength of the overall rock mass, which may be considerably weaker due to defects.

The Point Load Strength Index $I_{s(50)}$ is commonly used to provide an estimate of the rock strength and site specific correlations should be developed to allow UCS values to be determined. The point load strength test procedure is described by Australian Standard AS4133.4.1-2007. The terms used to describe rock strength are as follows:

Strength Term	Unconfined Compressive Strength (MPa)	Point Load Index ¹ $I_{s(50)}$ MPa	Abbreviation Code
Very low	0.6 - 2	0.03 - 0.1	VL
Low	2 - 6	0.1 - 0.3	L
Medium	6 - 20	0.3 - 1.0	M
High	20 - 60	1 - 3	H
Very high	60 - 200	3 - 10	VH
Extremely high	>200	>10	EH

¹ Rock strength classification is based on UCS. The UCS to $I_{s(50)}$ ratio varies significantly for different rock types and specific ratios may be required for each site. The point load Index ranges shown above are as suggested in AS1726 and should not be relied upon without supporting evidence.

The following abbreviation codes are used for soil layers or seams of material “within rock” but for which the equivalent UCS strength is less than 0.6 MPa.

Scenario	Abbreviation Code
The material encountered has an equivalent UCS strength of less than 0.6 MPa, and therefore is considered to be soil (as per Note 1 of Table 20 of AS 1726-2017). The properties of the material encountered over this interval are described in the “Description of Strata” and soil properties columns.	SOIL
The material encountered has an equivalent UCS strength of less than 0.6 MPa, and therefore is considered to be soil (as per Note 1 of Table 20 of AS 1726-2017). The prominence of the material is such that it can be considered to be a seam (as defined in Table 22 of AS1726-2017) and the properties of the material are described in the defect column.	SEAM

Degree of Weathering

The degree of weathering of rock is classified as follows:

Weathering Term	Description	Abbreviation Code
Residual Soil ¹	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are no longer visible, but the soil has not been significantly transported.	RS
Extremely weathered ¹	Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are still visible	XW
Highly weathered	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is significantly changed by weathering. Some primary minerals have weathered to clay minerals. Porosity may be increased by leaching or may be decreased due to deposition of weathering products in pores.	HW
Moderately weathered	The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable but shows little or no change of strength from fresh rock.	MW
Slightly weathered	Rock is partially discoloured with staining or bleaching along joints but shows little or no change of strength from fresh rock.	SW
Fresh	No signs of decomposition or staining.	FR
Note: If HW and MW cannot be differentiated use DW (see below)		
Distinctly weathered	Rock strength usually changed by weathering. The rock may be highly discoloured, usually by iron staining. Porosity may be increased by leaching or may be decreased due to deposition of weathered products in pores.	DW

¹ The parent rock type, of which the residual/extremely weathered material is a derivative, will be stated in the description (where discernible).

Degree of Alteration

The degree of alteration of the rock material (physical or chemical changes caused by hot gasses or liquids at depth) is classified as follows:

Term	Description	Abbreviation Code
Extremely altered	Material is altered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are still visible.	XA
Highly altered	The whole of the rock material is discoloured, usually by staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is changed by alteration. Some primary minerals are altered to clay minerals. Porosity may be increased by leaching or may be decreased due to precipitation of secondary materials in pores.	HA
Moderately altered	The whole of the rock material is discoloured, usually by staining or bleaching to the extent that the colour of the original rock is not recognisable but shows little or no change of strength from fresh rock.	MA
Slightly altered	Rock is slightly discoloured but shows little or no change of strength from fresh rock	SA
Note: If HA and MA cannot be differentiated use DA (see below)		
Distinctly altered	Rock strength usually changed by alteration. The rock may be highly discoloured, usually by staining or bleaching. Porosity may be increased by leaching or may be decreased due to precipitation of secondary minerals in pores.	DA

Degree of Fracturing

The following descriptive classification apply to the spacing of natural occurring fractures in the rock mass. It includes bedding plane partings, joints and other defects, but excludes drilling breaks. These terms are generally not required on investigation logs where fracture spacing is presented as a histogram, and where used are presented in an unabbreviated format.

Term	Description
Fragmented	Fragments of <20 mm
Highly Fractured	Core lengths of 20-40 mm with occasional fragments
Fractured	Core lengths of 30-100 mm with occasional shorter and longer sections
Slightly Fractured	Core lengths of 300 mm or longer with occasional sections of 100-300 mm
Unbroken	Core contains very few fractures

Rock Quality Designation

The quality of the cored rock can be measured using the Rock Quality Designation (RQD) index, defined as:

$$RQD \% = \frac{\text{cumulative length of 'sound' core sections} > 100 \text{ mm long}}{\text{total drilled length of section being assessed}}$$

where 'sound' rock is assessed to be rock of low strength or stronger. The RQD applies only to natural fractures. If the core is broken by drilling or handling (i.e., drilling breaks) then the broken pieces are fitted back together and are not included in the calculation of RQD.

Stratification Spacing

These terms may be used to describe the spacing of bedding partings in sedimentary rocks. Where used, these terms are generally presented in an unabbreviated format

Term	Separation of Stratification Planes
Thinly laminated	< 6 mm
Laminated	6 mm to 20 mm
Very thinly bedded	20 mm to 60 mm
Thinly bedded	60 mm to 0.2 m
Medium bedded	0.2 m to 0.6 m
Thickly bedded	0.6 m to 2 m
Very thickly bedded	> 2 m

Rock Descriptions

Terminology
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Defect Descriptions

Defect Type

Term	Abbreviation Code
Bedding plane	B
Infilled seam	IS
Cleavage	CV
Crushed zone	CZ
Decomposed seam	DS
Fault	F
Joint	JT
Lamination	LAM
Parting	P
Shear zone	SZ
Vein	VN
Drilling/handling break	DB , HB
Fracture	FC

Rock Defect Orientation

Term	Abbreviation Code
Horizontal	H
Vertical	V
Sub-horizontal	SH
Sub-vertical	SV

Rock Defect Coating

Term	Abbreviation Code
Clean	CN
Coating	CT
Healed	HE
Infilled	INF
Stained	SN
Tight	TI
Veneer	VNR

Rock Defect Infill

Term	Abbreviation Code
Calcite	CA
Carbonaceous	CBS
Clay	CLAY
Iron oxide	FE
Manganese	MN

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Rock Defect Shape/Planarity

Term	Abbreviation Code
Curved	CU
Irregular	IR
Planar	PR
Stepped	ST
Undulating	UN

Rock Defect Roughness

Term	Abbreviation Code
Polished	PO
Rough	RF
Slickensided	SL
Smooth	SM
Very rough	VR

Defect Orientation

The inclination of defects is always measured from the perpendicular to the core axis.

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Sampling and Testing

A record of samples retained, and field testing performed is usually shown on a Douglas Partners' log with samples appearing to the left of a depth scale, and selected field and laboratory testing (including results, where relevant) appearing to the right of the scale, as illustrated below:

SAMPLE			DEPTH (m)	TESTING	
SAMPLE REMARKS	TYPE	INTERVAL		TEST TYPE	RESULTS AND REMARKS
	SPT		1.0 1.45	SPT	4,9,11 N=20

Sampling

The type or intended purpose for which a sample was taken is indicated by the following abbreviation codes.

Sample Type	Code
Auger sample	A
Bulk sample	B
Core sample	C
Disturbed sample	D
Sample from SPT test	SPT
Environmental sample	ES
Gas sample	G
Undisturbed tube sample	U ¹
Water sample	W
Piston sample	P
Core sample for unconfined compressive strength testing	UCS
Material Sample	MT

¹ – numeric suffixes indicate tube diameter/width in mm

The above codes only indicate that a sample was retained, and not that testing was scheduled or performed.

Field and Laboratory Testing

A record that field and laboratory testing was performed is indicated by the following abbreviation codes.

Test Type	Code
Pocket penetrometer (kPa)	PP
Photo ionisation detector (ppm)	PID
Standard Penetration Test x/y = x blows for y mm penetration HB = hammer bouncing HW = fell under weight of hammer	SPT
Shear vane (kPa)	V
Unconfined compressive strength, (MPa)	UCS

Field and laboratory testing (continued)

Test Type	Code
Point load test, (MPa), axial (A), diametric (D), irregular (I)	PLT(L)
Dynamic cone penetrometer, followed by blow count penetration increment in mm (cone tip, generally in accordance with AS1289.6.3.2)	DCP/150
Perth sand penetrometer, followed by blow count penetration increment in mm (flat tip, generally in accordance with AS1289.6.3.3)	PSP/150

Groundwater Observations

▷	seepage/inflow
▽	standing or observed water level
NFGWO	no free groundwater observed
OBS	observations obscured by drilling fluids

Drilling or Excavation Methods/Tools

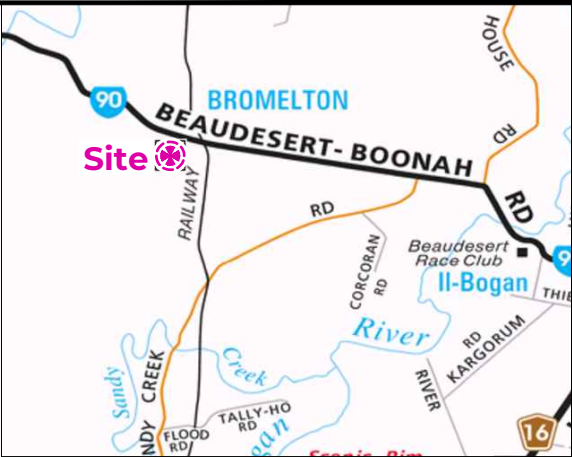
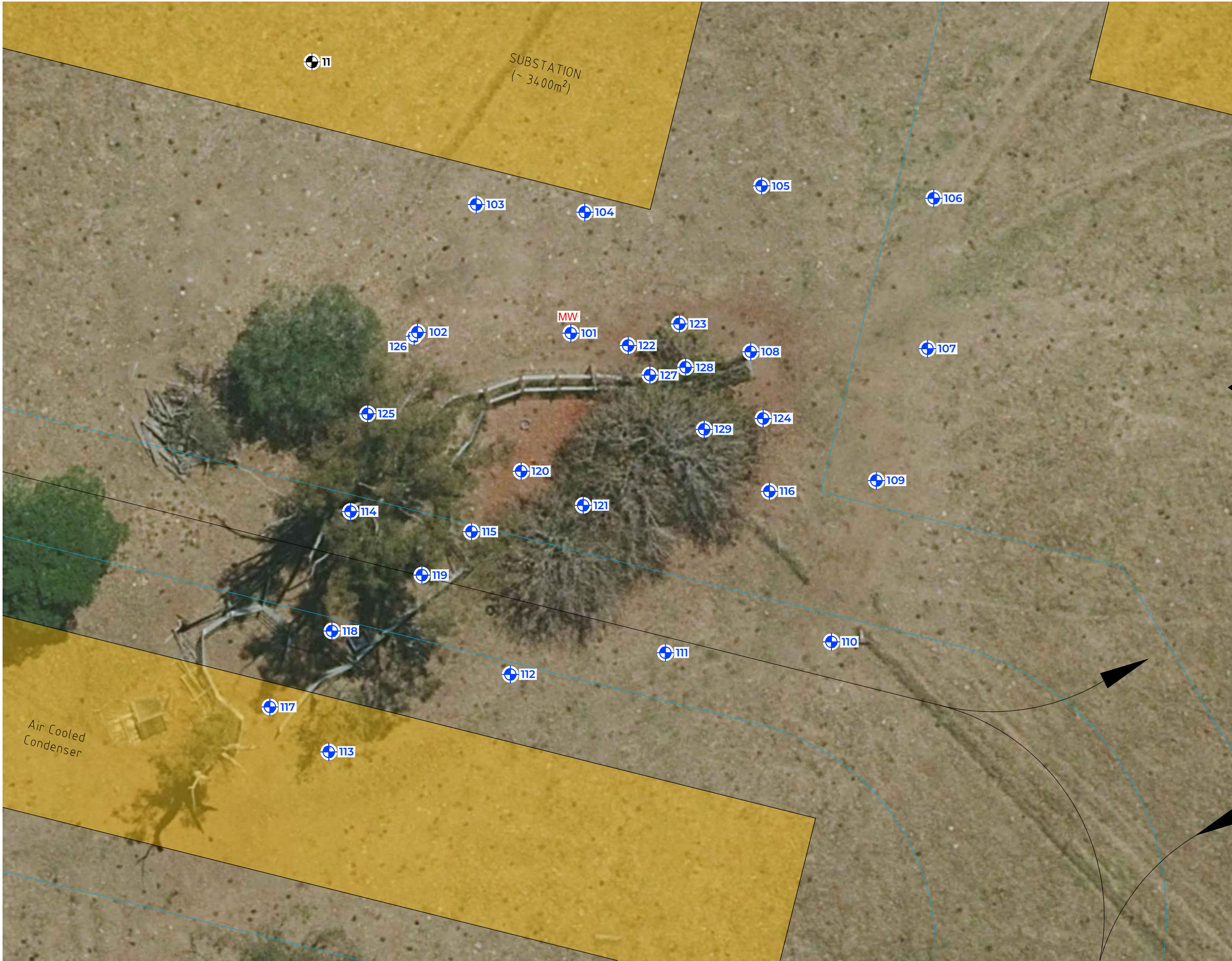
The drilling/excavation methods used to perform the investigation may be shown either in a dedicated column down the left-hand edge of the log, or stated in the log footer. In some circumstances abbreviation codes may be used.

Method	Abbreviation Code
Toothed bucket	TB ¹
Mud/blade bucket	MB ¹
Ripping tyne/ripper	R
Rock breaker/hydraulic hammer	RB
Hand auger	HA ¹
NMLC series coring	NMLC
HMLC series coring	HMLC
NQ coring	NQ3
HQ coring	HQ3
PQ coring	PQ3
Push tube	PT ¹
Rock roller	RR ¹
Solid flight auger. Suffixes: /T = tungsten carbide tip, /V = v-shaped tip	AD ¹
Sonic drilling	SON ¹
Vibrocure	VC ¹
Wash bore (unspecified bit type)	WB ¹
Existing exposure	X
Hand tools (unspecified)	HAND
Predrilled	PD
Diatube	DT ¹
Hollow flight auger	HSA ¹
Vacuum excavation	VE

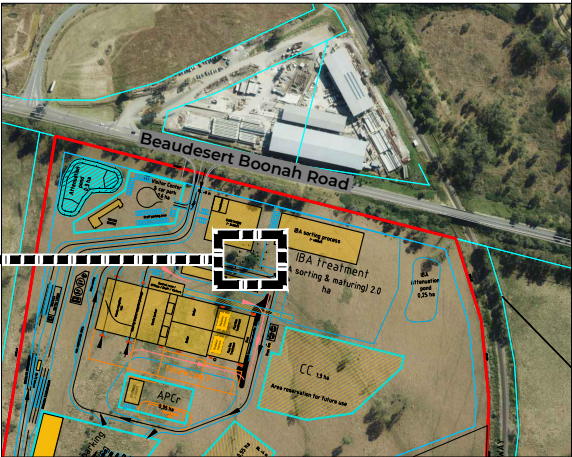
¹ – numeric suffixes indicate tool diameter/width in mm

Appendix B

Drawings



Location Plan



LEGEND:-	
	Borehole Location and Number
	Previous Bore Locations
	Monitoring Well Location

REV	DESCRIPTION/COMMENT	DATE	DRAWN BY
0		29/02/2024	JST
COORDINATE REFERENCE SYSTEM:			
MGA2020			

Douglas
PARTNERS

OFFICE: BRISBANE
439 Montague Road, West End, QLD, 4101
(07) 3237 8900

CLIENT:
Cleanaway Operations Pty Ltd

SCALE:
0 2.5 5 7.5 10 m
SCALE 1: 250 (A3)

NOTE:
• Base image from MetroMap (Dated 21.09.2023)

PROJECT NAME:
Bromelton Energy and Resource Centre

PROJECT ADDRESS:
Lot 1 Beaudesert Boonah Road, Bromelton

DRAWING TITLE:
SITE AND TEST LOCATION PLAN

PROJECT No:
219361.02

DRAWING No:
2

REVISION:
0

Appendix C

~~PSI Report (Douglas, 2023)~~

Refer to Appendix F1 of Planning Report
for updated PSI Report (Douglas, 2025)

Appendix D

Data Quality Assurance and Quality Control

1. Field and Laboratory Data Quality Assurance and Quality Control

The field and laboratory data QA/QC procedures and results are summarised in the following Table 1. Reference should be made to the field work methodology and the laboratory results/certificates of analysis for further details. The RPD results, along with the other field QC samples are included in the summary results tables.

Table 1: Field and laboratory quality control

Item	Evaluation / acceptance criteria	Compliance
Analytical laboratories used	NATA accreditation	C
Holding times	Various based on type of analysis	C
Intra-laboratory replicates	5% 10% of primary samples; <30% RPD	PC
Inter-laboratory replicates	5% 10% of primary samples; <30% RPD	PC
Trip Spikes	One per sampling event; 60-140% recovery	C
Trip Blanks	One per sampling event; <LOR	C
Laboratory / Reagent Blanks	One per batch; <LOR	C
Laboratory Duplicate	One per lab batch; As laboratory certificate	C
Matrix Spikes	One per lab batch; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Surrogate Spikes	All organics analysis; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Control Samples	1 per lab batch; 70-130% recovery (inorganics); 60-140% recovery (organics)	C
Standard Operating Procedures (SOP)	Adopting SOP for all aspects of the sampling field work	C

Notes:

C = compliance; PC = partial compliance; NC = non-compliance

The RPD results were all within the acceptable range, except for those indicated in Table QA1 (results in bold and orange). The exceedances are not, however, considered to be of concern given that:

- The actual differences in the concentrations of the replicate pairs where RPD exceedances occurred were typically low;
- Replicates, rather than homogenised duplicates, were used to minimise risk of volatile loss, hence greater analytical variability between replicate pairs can be expected;

- Most of the recorded concentrations were relatively close to the LOR;
- All other QA/QC parameters met the DQI.

In summary, the QC data is determined to be of sufficient quality to be considered acceptable for the assessment.

2. Data Quality Indicators

The reliability of field procedures and analytical results was assessed against the following DQI as outlined in NEPC *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)* [the 'NEPM'] (NEPC, 2013):

- Completeness: a measure of the amount of usable data from a data collection activity;
- Comparability: the confidence (qualitative) that data may be considered to be equivalent for each sampling and analytical event;
- Representativeness: the confidence (qualitative) of data representativeness of media present on-site;
- Precision: a measure of variability or reproducibility of data; and
- Accuracy: a measure of closeness of the data to the 'true' value.

Table 2: Data quality indicators

Data quality indicator	Method(s) of achievement
Completeness	Systematic and selected target locations sampled.
	Preparation of borehole logs, sample location plan and chain of custody records.
	Preparation of field groundwater sampling sheets.
	Laboratory sample receipt information received confirming receipt of samples intact and appropriateness of the chain of custody.
	Samples analysed for CoPC identified in the CSM.
	Completion of CoC documentation.
	NATA accredited laboratory results certificates provided by the laboratory.
	Satisfactory frequency and results for field and laboratory QC samples as discussed in Section 1.
Comparability	Using appropriate techniques for sample recovery, storage and transportation, which were the same for the duration of the project.
	Experienced sampler used.

Data quality indicator	Method(s) of achievement
	Use of NATA accredited laboratories, with test methods the same or similar between laboratories.
	Satisfactory results for field and laboratory QC samples.
Representativeness	Target media sampled.
	Sample numbers recovered and analysed are considered to be representative of the target media and complying with DQO.
	Samples were extracted and analysed within holding times.
	Samples were analysed in accordance with the CoC.
Precision	Field staff followed standard operating procedures.
	Acceptable RPD between original samples and replicates.
	Satisfactory results for all other field and laboratory QC samples.
Accuracy	Field staff followed standard operating procedures.
	Satisfactory results for all field and laboratory QC samples.

Based on the above, it is considered that the DQI have been generally complied with.

3. Conclusion

Based on the results of the field QA and field and laboratory QC, and evaluation against the DQI it is concluded that the field and laboratory test data obtained are reliable and useable for this assessment.

4. References

NEPC. (2013). *National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [NEPM]*. Australian Government Publishing Services Canberra: National Environment Protection Council.

Appendix E

Borehole Logs

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd

PROJECT: Bromelton Energy and Resource Centre

LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56

SURFACE LEVEL: 94.9 AHD

COORDINATE: E:492666.0, N:6905479.0

DATUM/GRID: MGA2020 Zone 56

LOCATION ID: 101

PROJECT No: 219361.02

DATE: 15/01/24

SHEET: 1 of 2

[illegible]

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

PLANT: GT3 Hydrapower Scout

OPERATOR: Ground Test

LOGGED: JW

METHOD: Auger to 2.5m, then washbore to termination

CASING: HWT to 2.5m

REMARKS: No free groundwater observed during auger drilling

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd

PROJECT: Bromelton Energy and Resource Centre

LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285

SURFACE LEVEL: 94.9 AHD

COORDINATE: E:492666.0, N:6905479.0

DATUM/GRID: MGA2020 Zone 56

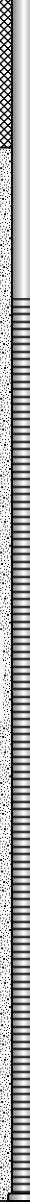
DIP/AZIMUTH: 90°/---°

LOCATION ID: 101

PROJECT No: 219361.02

DATE: 15/01/24

SHEET: 2 of 2

CONDITIONS ENCOUNTERED																SAMPLE			TESTING			
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	SOIL			ROCK			SAMPLE REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	BACKFILL	WELL PIPE				
					ORIGIN (#)	CONSIS. (V)	DENSITY (V)	MOISTURE	WEATH.	DEPTH (m)									STRENGTH			
	84	11	[CONT] SANDSTONE: pale brown, red, white																			
	83	12																				
	82	13																				
	81	14																				
	80	15																				
	79	16																				
	78	17																				
	77	18																				
	76	19																				
	75																					
Borehole discontinued at 18.00m depth. Limit of investigation.																						

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

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285

SURFACE LEVEL: 94.9 AHD
COORDINATE: E:492656.0, N:6905479.0
DIP/AZIMUTH: 90°/---°

LOCATION ID: 102
PROJECT No: 219361.02
DATE: 17/01/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS					
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	
94	0.10	TOPSOIL / Sandy CLAY (CI): dark brown; medium plasticity; fine to medium sand.		TOP	(F)	w=PL			ES	0.10	PID	0.0ppm		
		RS		(F) to (St)	w=PL	ES			0.20		PID	0.0ppm		
			0.40			ES			0.50	PID			0.0ppm	
						0.90			ES					1.00
			1.00						Borehole discontinued at 1.00m depth. Limit of investigation.					
		95												

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

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

PLANT: Dando Terrier
METHOD: Driven Tube
REMARKS: No free groundwater observed during drilling

OPERATOR: Ground Test
CASING: Nil

LOGGED: JW



Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285
SURFACE LEVEL: 94.5 AHD
COORDINATE: E:492659.9, N:6905488.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°
LOCATION ID: 103
PROJECT No: 219361.02
DATE: 17/01/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS			
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	94	0.10	TOPSOIL / Sandy CLAY (CI): brown; medium plasticity; fine to medium sand.		TOP	(F)	w=PL		ES	0.00 - 0.10	0.00 - 0.10	PID	0.0ppm
			Sandy CLAY (CI-CH): red-brown; medium to high plasticity; fine sand.		RS	(St)	w=PL		ES			0.10 - 0.20	PID
		0.40	Sandy CLAY (CI): pale brown; medium plasticity; fine to medium sand.		RS	(St)	ND		ES	0.40 - 0.50	PID	0.1ppm	

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

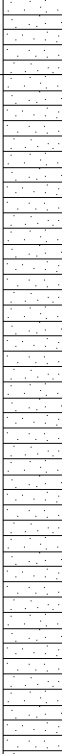
PLANT: Dando Terrier
METHOD: Driven Tube
REMARKS: No free groundwater observed during drilling
OPERATOR: Ground Test
LOGGED: JW
CASING: Nil

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285
SURFACE LEVEL: 94.4 AHD
COORDINATE: E:492666.9, N:6905487.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°
LOCATION ID: 104
PROJECT No: 219361.02
DATE: 17/01/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS														
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(§)	CONSIS. (¶) DENSITY. (¶)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS										
	94	0.10	TOPSOIL / Sandy CLAY (Cl), trace organics/rootlets: brown; medium plasticity; fine to medium sand.		TOP	(F)	w=PL		ES			PID	0.0ppm										
			Sandy CLAY (Cl-CH): pale brown; medium to high plasticity; fine to medium sand.		RS	(F) to (St)	w=PL		ES					PID	0.0ppm								
		(St)							w<PL														
						ES															0.40	PID	0.0ppm
ES																	0.50						
														ES			0.90	PID	0.0ppm				
	93		Borehole discontinued at 1.00m depth. Limit of investigation.																				

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

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

PLANT: Dando Terrier
METHOD: Driven Tube
REMARKS: No free groundwater observed during drilling
OPERATOR: Ground Test
LOGGED: JW
CASING: Nil

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285
SURFACE LEVEL: 94.4 AHD
COORDINATE: E:492678.3, N:6905489.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°
LOCATION ID: 105
PROJECT No: 219361.02
DATE: 17/01/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS				
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	94	0.10	TOPSOIL / Sandy CLAY (CI): brown; medium plasticity; fine to medium sand.		TOP	(F)	w=PL	+D2 +T2	ES			PID	0.1ppm
		Sandy CLAY (CI-CH): brown; medium to high plasticity; fine to medium sand.	RS		(St)	w=PL					0.10	PID	0.0ppm
									ES		0.20		
	35	1	Borehole discontinued at 1.00m depth. Limit of investigation.				w<PL		ES		0.90	PID	0.0ppm

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

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

PLANT: Dando Terrier
METHOD: Driven Tube
REMARKS: No free groundwater observed during drilling
OPERATOR: Ground Test
LOGGED: JW
CASING: Nil

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd

PROJECT: Bromelton Energy and Resource Centre

LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56

SURFACE LEVEL: 94.5 AHD

COORDINATE: E:492689.4, N:6905488.0

DATUM/GRID: MGA2020 Zone 56

LOCATION ID: 106

PROJECT No: 219361.02

DATE: 17/01/24

SHEET: 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS										
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS						
	94	0.20	TOPSOIL / Sandy CLAY (Cl), trace rootlets: dark brown; medium plasticity; fine to medium sand.		TOP	(St)	w<PL		ES	{	0.10	PID	\0.2ppm						
			RS		(St)	w<PL	ES		{					0.20	PID	-0.0ppm			
		ES		{			0.30		PID	-0.1ppm									
							ES				{	0.40							
		0.50																	
		ES		{			0.90		PID	-0.0ppm									
							ES		{	1.00									
				93			1		Borehole discontinued at 1.00m depth. Limit of investigation.										

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

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

PLANT: Dando Terrier

OPERATOR: Ground Test

LOGGED: JW

METHOD: Driven Tube

CASING: Nil

REMARKS: No free groundwater observed during drilling

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Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285
SURFACE LEVEL: 94.8 AHD
COORDINATE: E:492689.0, N:6905478.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°
LOCATION ID: 107
PROJECT No: 219361.02
DATE: 17/01/24
SHEET: 1 of 1

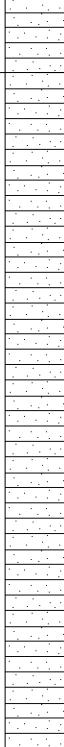
CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS													
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS									
	94	0.10	TOPSOIL / Sandy CLAY (Cl): dark brown; medium plasticity; fine to medium sand.		TOP	(F) to (St)	w<PL		ES	}		PID	0.0ppm									
									0.10		PID	0.0ppm										
			Sandy CLAY (Cl): pale brown; medium plasticity; fine to medium sand.		RS	(St)	w<PL		ES	}	0.20		0.40	PID	0.0ppm							
											0.50											

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285

SURFACE LEVEL: 94.9 AHD
COORDINATE: E:492677.6, N:6905478.0
DIP/AZIMUTH: 90°/---°

LOCATION ID: 108
PROJECT No: 219361.02
DATE: 17/01/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE				TESTING AND REMARKS								
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ⁽¹⁾ DENSITY. ⁽²⁾	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS					
	34	0.10	TOPSOIL / Sandy CLAY (CI): dark brown; medium plasticity; fine to medium sand.		TOP	(F)	w=PL		ES	0.05 - 0.10	0.05 - 0.10	PID	0.1ppm					
		RS	ES		0.10 - 0.20	0.10 - 0.20	PID		0.0ppm									
			0.20 - 0.40							0.20 - 0.40	PID	0.0ppm						
					ES	0.40 - 0.50	0.40 - 0.50		PID				0.0ppm					
														0.50 - 0.90	0.50 - 0.90	PID	0.0ppm	
			ES		0.90 - 1.00	0.90 - 1.00	PID		0.0ppm									
										0.90 - 1.00	0.90 - 1.00	PID	0.0ppm					
																		ES
					35	1	Borehole discontinued at 1.00m depth. Limit of investigation.				(St)	w<PL				1.00		

NOTES: ⁽¹⁾Soil origin is "probable" unless otherwise stated. ⁽²⁾Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

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

PLANT: Dando Terrier
METHOD: Driven Tube
REMARKS: No free groundwater observed during drilling

OPERATOR: Ground Test
CASING: Nil

LOGGED: JW



Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd **SURFACE LEVEL:** 95.1 AHD **LOCATION ID:** 109
PROJECT: Bromelton Energy and Resource Centre **COORDINATE:** E:492685.7, N:6905470.0 **PROJECT No:** 219361.02
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56 **DATE:** 17/01/24
DIP/AZIMUTH: 90°/---° **SHEET:** 1 of 1

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS												
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(§)	CONSIS. (¶) DENSITY. (¶)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS									
95	0.10	TOPSOIL / Sandy CLAY (Cl): dark brown; medium plasticity; fine to medium sand.		TOP	(F)	w<PL			ES			PID	0.6ppm									
		ES							0.10			PID	0.1ppm									
		ES							0.20													
		ES							0.40			PID	0.0ppm									
		ES							0.50													
		ES							0.90			PID	0.0ppm									
		ES							1.00													
		Borehole discontinued at 1.00m depth. Limit of investigation.																				
		94																				

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

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

PLANT: Dando Terrier **OPERATOR:** Ground Test **LOGGED:** JW
METHOD: Driven Tube **CASING:** Nil
REMARKS: No free groundwater observed during drilling

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd **SURFACE LEVEL:** 95.1 AHD **LOCATION ID:** 110
PROJECT: Bromelton Energy and Resource Centre **COORDINATE:** E:492682.8, N:6905460.0 **PROJECT No:** 219361.02
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56 **DATE:** 18/01/24
DIP/AZIMUTH: 90°/---° **SHEET:** 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS					
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(§)	CONSIS. (¶)	DENSITY. (¶)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
95	0.10	TOPSOIL / Sandy CLAY (CI): dark brown; medium plasticity; fine to medium sand.		TOP	(F)	w=PL		ES					PID	0.2ppm
		ES							0.10	PID	0.0ppm			
		ES							0.40	PID	0.6ppm			
		ES							0.90	PID	0.0ppm			
94	1	Sandy CLAY (CI): pale brown; medium plasticity; fine to medium sand.		RS	(St)	w<PL								
Borehole discontinued at 1.00m depth. Limit of investigation.														
NOTES: §Soil origin is "probable" unless otherwise stated. ¶Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.														

PLANT: Dando Terrier **OPERATOR:** Ground Test **LOGGED:** JW
METHOD: Driven Tube **CASING:** Nil
REMARKS: No free groundwater observed during drilling

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd

PROJECT: Bromelton Energy and Resource Centre

LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56

SURFACE LEVEL: 95.3 AHD

COORDINATE: E:492672.1, N:6905459.0

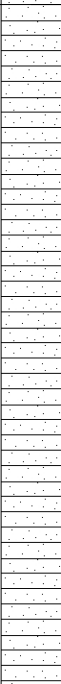
DATUM/GRID: MGA2020 Zone 56

LOCATION ID: 111

PROJECT No: 219361.02

DATE: 18/01/24

SHEET: 1 of 1

CONDITIONS ENCOUNTERED												SAMPLE			TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN ^(#)	CONSIS. ^(*)	DENSITY, ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS		
	95	0.10	TOPSOIL / Sandy CLAY (CI): dark brown; medium plasticity; fine to medium sand.		TOP	(F)		w=PL					PID	0.0ppm		
		Sandy CLAY (CI): pale brown; medium plasticity; fine sand.						PID					0.1ppm			
								PID					0.1ppm			
								PID					0.0ppm			
1	Borehole discontinued at 1.00m depth. Limit of investigation.											1				
	94															

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

PLANT: Dando Terrier

METHOD: Driven Tube

REMARKS: No free groundwater observed during drilling

OPERATOR: Ground Test

LOGGED: JW

CASING: Nil

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd

PROJECT: Bromelton Energy and Resource Centre

LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56

SURFACE LEVEL: 95.5 AHD

COORDINATE: E:492662.1, N:6905457.0

DATUM/GRID: MGA2020 Zone 56

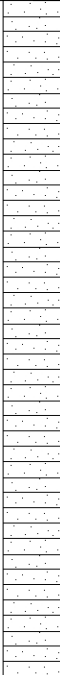
DIP/AZIMUTH: 90°/---°

LOCATION ID: 112

PROJECT No: 219361.02

DATE: 18/01/24

SHEET: 1 of 1

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS				
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN ^(#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS	
	g5	0.10	TOPSOIL / Sandy CLAY (Cl): dark brown; medium plasticity; fine to medium sand.		TOP	(F)	w<PL		ES	{	0.10	PID	-0.1ppm	
		ES	{	0.10	PID	-0.0ppm								
			Sandy CLAY (Cl): pale brown; medium plasticity; fine to medium sand.		RS	(St)	w<PL			{	0.20	PID	-0.0ppm	
									{					0.40
										ES	{			
										ES	{	0.90	PID	-0.0ppm

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

PLANT: Dando Terrier

OPERATOR: Ground Test

LOGGED: JW

METHOD: Driven Tube

CASING: Nil

REMARKS: No free groundwater observed during drilling

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Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd **SURFACE LEVEL:** 95.7 AHD **LOCATION ID:** 113
PROJECT: Bromelton Energy and Resource Centre **COORDINATE:** E:492650.4, N:6905452.0 **PROJECT No:** 219361.02
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56 **DATE:** 18/01/24
DIP/AZIMUTH: 90°/---° **SHEET:** 1 of 1

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS					
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ⁽¹⁾ DENSITY. ⁽¹⁾	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS		
	95	0.10	TOPSOIL / Sandy CLAY (CI): dark brown; medium plasticity; fine to medium sand.		TOP	(St)	w<PL	+D7 +T7	ES	0.00 - 0.10	0.00	PID	0.1ppm		
		Sandy CLAY (CI-CH): red-brown; medium to high plasticity; fine sand.	RS		(St)	w<PL	ES		0.10 - 0.20			PID	0.2ppm		
		0.40	Sandy CLAY (CI): pale brown; medium plasticity; fine to coarse sand.		RS	(St)	w<PL		ES	0.20 - 0.40	PID	0.0ppm			
		0.40 - 0.50							PID	0.0ppm					
		0.90	Borehole discontinued at 1.00m depth. Limit of investigation.		RS	(St)	w<PL	ES	0.50 - 0.90	PID	0.0ppm				
		0.90 - 1.00						PID	0.0ppm						
		1.00													
			94												

NOTES: ⁽¹⁾ Soil origin is "probable" unless otherwise stated. ⁽¹⁾ Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.

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

PLANT: Dando Terrier **OPERATOR:** Ground Test **LOGGED:** JW
METHOD: Driven Tube **CASING:** Nil
REMARKS: No free groundwater observed during drilling

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd **SURFACE LEVEL:** 95.2 AHD **LOCATION ID:** 114
PROJECT: Bromelton Energy and Resource Centre **COORDINATE:** E:492651.8, N:6905468.0 **PROJECT No:** 219361.02
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56 **DATE:** 17/01/24
DIP/AZIMUTH: 90°/---° **SHEET:** 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE				TESTING AND REMARKS										
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(®)	CONSIS. (¹)	DENSITY. (¹)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS						
	g5	0.10	TOPSOIL / Sandy CLAY (CI): dark brown; medium plasticity; fine to medium sand.		TOP	(F)	w=PL			ES	0.00 - 0.10	0.00	PID	0.0ppm						
		Sandy CLAY (CI-CH): red-brown; medium to high plasticity; fine to medium sand.	RS		(St)	w<PL				ES			PID	0.1ppm						
		0.40		Sandy CLAY (CI): grey-brown; medium plasticity; fine to medium sand.							RS	(St)	w<PL		ES	0.20 - 0.40	0.40	PID	0.0ppm	

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

PLANT: Dando Terrier **OPERATOR:** Ground Test **LOGGED:** JW
METHOD: Driven Tube **CASING:** Nil
REMARKS: No free groundwater observed during drilling

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd

PROJECT: Bromelton Energy and Resource Centre

LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56

SURFACE LEVEL: 95.3 AHD

COORDINATE: E:492659.6, N:6905467.0

DATUM/GRID: MGA2020 Zone 56

LOCATION ID: 115

PROJECT No: 219361.02

DATE: 18/01/24

SHEET: 1 of 1

[illegible]

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

PLANT: Dando Terrier

OPERATOR: Ground Test

LOGGED: JW

METHOD: Driven Tube

CASING: Nil

REMARKS: No free groundwater observed during drilling

Generated with CORE-GS by GeroC - Soil Log - 22/01/2024 11:41:35 AM

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285

SURFACE LEVEL: 95.1 AHD
COORDINATE: E:492678.8, N:6905469.0
DIP/AZIMUTH: 90°/---°

LOCATION ID: 116
PROJECT No: 219361.02
DATE: 18/01/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE				TESTING AND REMARKS															
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS												
95	0.10	TOPSOIL / Sandy CLAY (CI), with rootlets: dark brown; medium plasticity; fine to medium sand.		TOP	(F)	w=PL	+D6 +T6		ES				PID	0.1ppm											
		Sandy CLAY (CI): pale brown; medium plasticity; fine to medium sand.		RS	(F)	w=PL			ES				0.10	PID	0.2ppm										
									0.20																
									0.40				PID	0.0ppm											
															0.50										
															0.90	PID	0.0ppm								
									ES																
													1.00												
													94	1				Borehole discontinued at 1.00m depth. Limit of investigation.			(St)	w<PL		ES	

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

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

PLANT: Dando Terrier
METHOD: Driven Tube
REMARKS: No free groundwater observed during drilling

OPERATOR: Ground Test
CASING: Nil

LOGGED: JW

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd **SURFACE LEVEL:** 95.5 AHD **LOCATION ID:** 117
PROJECT: Bromelton Energy and Resource Centre **COORDINATE:** E:492646.6, N:6905455.0 **PROJECT No:** 219361.02
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56 **DATE:** 18/01/24
DIP/AZIMUTH: 90°/---° **SHEET:** 1 of 1

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS								
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(%)	CONSIS. (°) DENSITY (°)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS					
	95	0.10	TOPSOIL / Sandy CLAY (Cl): dark brown; medium plasticity; fine to medium sand.		TOP	(St)	w<PL		ES		0.00	PID	0.0ppm					
			Sandy CLAY (Cl): red-brown; medium plasticity; fine to medium sand.		RS	(St)	w<PL		ES			0.10	PID	0.0ppm				
		Sandy CLAY (Cl), trace gravel: brown; medium plasticity; fine to medium sand; fine to coarse, angular gravel.							RS			(VSt)	w<PL	ES	0.20	0.30	PID	0.0ppm
			0.30															
		1	Borehole discontinued at 0.50m depth. Refusal on sandstone.															

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

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

PLANT: Dando Terrier **OPERATOR:** Ground Test **LOGGED:** JW
METHOD: Driven Tube **CASING:** Nil
REMARKS: No free groundwater observed during drilling

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd

PROJECT: Bromelton Energy and Resource Centre

LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56

SURFACE LEVEL: 95.3 AHD

COORDINATE: E:492650.6, N:6905460.0

DATUM/GRID: MGA2020 Zone 56

LOCATION ID: 118

PROJECT No: 219361.02

DATE: 18/01/24

SHEET: 1 of 1

CONDITIONS ENCOUNTERED							SAMPLE			TESTING AND REMARKS			
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(%)	CONSIS. ^(%) DENSITY. ^(%)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	34	0.10	TOPSOIL / Sandy CLAY (CI): dark brown; medium plasticity; fine to medium sand.		TOP	(St)	w<PL		ES	0.10	PID	0.0ppm	
		0.20	PID	0.0ppm									
					0.30	Sandy CLAY (CI): red-brown; medium plasticity; fine to medium sand.			RS	(St)	w<PL	ES	0.30
	34	0.30	Sandy CLAY (CI): pale brown; medium plasticity; fine to coarse sand.		RS	(St)	w<PL		ES	0.40	PID	0.0ppm	
		0.40	PID	0.0ppm									
					Borehole discontinued at 0.50m depth. Refusal on sandstone.								
	34	1								1			
NOTES: ^(%) Soil origin is "probable" unless otherwise stated. ^(%) Consistency/Relative density shading is for visual reference only - no correlation between cohesive and granular materials is implied.													

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

PLANT: Dando Terrier

OPERATOR: Ground Test

LOGGED: JW

METHOD: Driven Tube

CASING: Nil

REMARKS: No free groundwater observed during drilling

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd

PROJECT: Bromelton Energy and Resource Centre

LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56

SURFACE LEVEL: 95.4 AHD

COORDINATE: E:492656.4, N:6905464.0

DATUM/GRID: MGA2020 Zone 56

LOCATION ID: 119

PROJECT No: 219361.02

DATE: 18/01/24

SHEET: 1 of 1

[illegible]

PLANT: Dando Terrier

METHOD: Driven Tube

REMARKS: No free groundwater observed during drilling

OPERATOR: Ground Test

LOGGED: JW

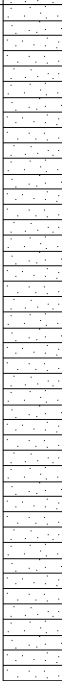
CASING: Nil

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285

SURFACE LEVEL: 95.2 AHD
COORDINATE: E:492662.8, N:6905471.0
DIP/AZIMUTH: 90°/---°

LOCATION ID: 120
PROJECT No: 219361.02
DATE: 18/01/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS								
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*) DENSITY, ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS				
g ₅		0.10	TOPSOIL / Sandy CLAY (Cl): dark brown; medium plasticity; fine to medium sand.		TOP	(F) to (St)	w<PL		ES	0.05 - 0.10	0.05	PID	0.2ppm				
			RS		(St)	w<PL	ES		0.10			PID	0.3ppm				
			0.20	ES	0.15 - 0.20	0.15	PID		0.1ppm								
										0.40	ES	0.35 - 0.40	0.35	PID	0.1ppm		
			0.50	ES	0.45 - 0.50	0.45	PID		0.1ppm								
										0.90	ES	0.85 - 0.90	0.85	PID	0.1ppm		
			1.00														
			g ₄			Borehole discontinued at 1.00m depth. Limit of investigation.											

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

PLANT: Dando Terrier
METHOD: Driven Tube
REMARKS: No free groundwater observed during drilling

OPERATOR: Ground Test
CASING: Nil

LOGGED: JW



Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285

SURFACE LEVEL: 95.1 AHD
COORDINATE: E:492666.8, N:6905468.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 121
PROJECT No: 219361.02
DATE: 18/01/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS									
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS					
g5	0.10	0.00	TOPSOIL / Sandy CLAY (CI): dark brown; medium plasticity; fine to medium sand.		TOP	(St)	w<PL		ES		0.00	PID	0.1ppm					
		0.05	Sandy CLAY (CI): pale brown; medium plasticity; fine to medium sand.		RS	(St)	w<PL		ES		0.05	PID	0.2ppm					
		0.10							ES		0.10							
		0.15																
		0.20																
		0.25																
		0.30																
		0.35																
		0.40																
		0.45																
g4	1	0.50	Borehole discontinued at 1.00m depth. Limit of investigation.		RS	(St)	w<PL		ES		0.40	PID	0.0ppm					
		0.50																
		0.55																
		0.60																
		0.65																
		0.70																
		0.75																
		0.80																
		0.85																
		0.90																
0.95																		
1.00																		

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

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285

SURFACE LEVEL: 94.9 AHD
COORDINATE: E:492669.7, N:6905479.0
DIP/AZIMUTH: 90°/---°

LOCATION ID: 122
PROJECT No: 219361.02
DATE: 17/01/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS				
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ⁽¹⁾ DENSITY. ⁽²⁾	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS
	94	0.10	TOPSOIL / Sandy CLAY (CI), with rootlets: dark brown; medium plasticity; fine to medium sand.		TOP	(F)	w=PL		ES	0.10	PID	0.1ppm	
		Sandy CLAY (CI): pale brown; medium plasticity; fine to medium sand.	RS		(F)	w=PL	ES		0.20				PID
							0.40			PID	0.2ppm		
									ES			0.50	
							0.90		PID	0.0ppm			
											ES	1.00	
							Borehole discontinued at 1.00m depth. Limit of investigation.						

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

PLANT: Dando Terrier
METHOD: Driven Tube
REMARKS: No free groundwater observed during drilling

OPERATOR: Ground Test
CASING: Nil

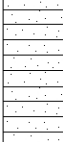
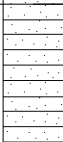
LOGGED: JW

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285

SURFACE LEVEL: 94.8 AHD
COORDINATE: E:492673.0, N:6905480.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 123
PROJECT No: 219361.02
DATE: 17/01/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE				TESTING AND REMARKS						
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ^(*)	DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS		
	g4	0.20	TOPSOIL / Sandy CLAY (CI): dark brown; medium plasticity; fine to medium sand.		TOP	(F)		w=PL	+D4 +T4	ES		0.10	PID	0.0ppm		
			Sandy CLAY (CI-CH): pale grey and brown; medium to high plasticity; fine to medium sand.		RS	(F)		w=PL		ES		0.20	PID	0.0ppm		
		0.40	Sandy CLAY (CI): pale brown; medium plasticity; fine to medium sand.		RS	(St)		w<PL		ES		0.40	PID	0.0ppm		
										0.50						
										ES		0.90	PID	0.0ppm		
										1.00						
			g5	Borehole discontinued at 1.00m depth. Limit of investigation.												

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

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

PLANT: Dando Terrier
METHOD: Driven Tube
REMARKS: No free groundwater observed during drilling

OPERATOR: Ground Test
CASING: Nil

LOGGED: JW



Refer to explanatory notes for symbol and abbreviation definitions

BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285
SURFACE LEVEL: 94.9 AHD
COORDINATE: E:492678.4, N:6905474.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°
LOCATION ID: 124
PROJECT No: 219361.02
DATE: 17/01/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED												SAMPLE			TESTING AND REMARKS	
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN (#)	CONSIS. ⁽¹⁾ DENSITY. ⁽¹⁾	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS			
	94	0.10	TOPSOIL / Sandy CLAY (CI): dark brown; medium plasticity; fine to medium sand.		TOP	(F)	w=PL	+D5 +TS	ES			PID	0.2ppm			
			Sandy CLAY (CI): pale grey-brown; medium plasticity; fine to medium sand.			(F)	w=PL					0.10	PID	0.0ppm		
												0.20				
												0.40	PID	0.0ppm		
												0.50				
												</				

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

PLANT: Dando Terrier
METHOD: Driven Tube
REMARKS: No free groundwater observed during drilling
OPERATOR: Ground Test
LOGGED: JW
CASING: Nil

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd
PROJECT: Bromelton Energy and Resource Centre
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285

SURFACE LEVEL: 95.1 AHD
COORDINATE: E:492652.9, N:6905474.0
DATUM/GRID: MGA2020 Zone 56
DIP/AZIMUTH: 90°/---°

LOCATION ID: 125
PROJECT No: 219361.02
DATE: 17/01/24
SHEET: 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS													
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(%)	CONSIS. ^(*) DENSITY, ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS									
	95	0.10	TOPSOIL / Sandy CLAY (Cl): dark brown; medium plasticity; fine to medium sand.		TOP	(F)	w=PL	+D3 +T3	ES	Interval 1	0.10	PID	0.1ppm									
			Sandy CLAY (Cl): red-brown; medium plasticity; fine to medium sand.											RS	(St)	w<PL	Interval 2	0.20	Interval 3	0.40	PID	0.0ppm
Borehole discontinued at 0.50m depth. Refusal on obstruction.																						
	94	1																				

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

PLANT: Dando Terrier
METHOD: Driven Tube
REMARKS: No free groundwater observed during drilling

OPERATOR: Ground Test

LOGGED: JW
CASING: Nil

Refer to explanatory notes for symbol and abbreviation definitions



BOREHOLE LOG

CLIENT: Cleanaway Operations Pty Ltd **SURFACE LEVEL:** 94.8 AHD **LOCATION ID:** 126
PROJECT: Bromelton Energy and Resource Centre **COORDINATE:** E:492655.9, N:6905479.0 **PROJECT No:** 219361.02
LOCATION: Lot 1 Beaudesert Boonah Road, Bromelton, QLD 4285 **DATUM/GRID:** MGA2020 Zone 56 **DATE:** 18/01/24
DIP/AZIMUTH: 90°/---° **SHEET:** 1 of 1

CONDITIONS ENCOUNTERED						SAMPLE			TESTING AND REMARKS							
GROUNDWATER	RL (m)	DEPTH (m)	DESCRIPTION OF STRATA	GRAPHIC	ORIGIN(#)	CONSIS. ^(*) DENSITY. ^(*)	MOISTURE	REMARKS	TYPE	INTERVAL	DEPTH (m)	TEST TYPE	RESULTS AND REMARKS			
	94	0.10	TOPSOIL / Sandy CLAY (Cl): dark brown; medium plasticity; fine to medium sand.		TOP	(F)	w=LL	+D8 +T8	ES	0.00 - 0.10	PID	0.2ppm				
		Sandy CLAY (Cl): pale brown; medium plasticity; fine to medium sand.	RS		(F)	w=PL			ES							
									0.20		ES	0.10 - 0.20		PID	0.1ppm	
											ES					
									0.40		ES	0.30 - 0.40		PID	0.1ppm	
											ES					
									0.50		ES	0.40 - 0.50		PID	0.1ppm	
											ES					
					0.90		(St)		w<PL		ES	0.80 - 0.90		PID	0.0ppm	
											ES					
		1	Borehole discontinued at 1.00m depth. Limit of investigation.													
	93															

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

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

PLANT: Dando Terrier **OPERATOR:** Ground Test **LOGGED:** JW
METHOD: Driven Tube **CASING:** Nil
REMARKS: No free groundwater observed during drilling

Refer to explanatory notes for symbol and abbreviation definitions



Appendix F

Laboratory Reports and Chain of Custody
Documentation



Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgf Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgf Standard Terms and Conditions is available on request.

CHAIN OF CUSTODY RECORD

Eurofins | mat ABN 50 005 085 521

 Sydney Laboratory

Unit F3 Bld F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

☒ Brisbane Laboratory

Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory

Unit 2 91 Leach Highway Kowdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

 Melbourne Laboratory

6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

[illegible]

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.

CHAIN OF CUSTODY RECORD

Eurofins | mgt ABN 50 005 085 521

Sydney Laboratory
Unit F3 Bld F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

☒ **Brisbane Laboratory**
Unit 1 21 Smallwood Place Murarrie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

☐ **Perth Laboratory**
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 ErviroSampleVic@eurofins.com

[illegible]

CHAIN OF CUSTODY RECORD

Eurofins | mgt ABN 50 005 085 521

 Sydney Laboratory

Unit F3 Bld.F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

☒ Brisbane Laboratory

Unit 1 21 Smallwood Place Murarrie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

 Perth Laboratory

Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

 Melbourne Laboratory

6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

[illegible]

Eurolins Environment Testing Australia Pty Ltd trading as Eurolins | mgt

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.

CHAIN OF CUSTODY RECORD

Eurofins | mgt ABN 50 005 085 521

 **Sydney Laboratory**
Unit F3 Bld F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

☒ **Brisbane Laboratory**
Unit 1 21 Smalwood Place Murarie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

 **Perth Laboratory**
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

 **Melbourne Laboratory**
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

Company	Douglas Partners	Project No.	219361.02						Project Manager	Rob Muller							Sampler(s)	Jesse Wotton
Address	439 Montague Road, West End	Project Name	219361.02						EDD Format ESdat, EquiS etc	Esdat							Handed over by	Courier
		Analyses Where notes are requested, please specify "Total" or "Filtered" SUITE code must be used to afford SUITE pricing	Aromatic	Carbamate pesticides	Suite B14	Synthetic pyrethroids	Acid Herbicides (phenoxy Acetic Acid) (standard)	TRH C6-C10/BTEX								Email for Invoice	brisbane@douglaspartners.com.au	
																Email for Results	Rob.Muller@douglaspartners.com.au	
Contact Name	Paul Barfield																	
Phone No	07 3237 8900																	
Special Directions																		
		Purchase Order	219361.02															
Quote ID No																		
No	Client Sample ID	Sampled Date/Time dd/mm/yyyy hh:mm	Matrix Solid (S) Water (W)															
1	113/O.5	18/01/24	S															
2	113/I.0	18/1/24	S															
3	114/O.1	17/1/24	S	X	X	X	X	X										
4	114/O.2	17/1/24	S	X	X	X	X	X										
5	114/O.5	17/1/24	S															
6	114/I.0	17/1/24	S															
7	115/O.1	18/1/24	S	X	X	X	X	X										
8	115/O.2	18/1/24	S	X	X	X	X	X										
9	115/O.5	18/1/24	S															
10	115/I.0	18/1/24	S															
Total Counts				4	4	4	4	4										
Method of Shipment:				☒ Courier (#) ☐ Hand Delivered ☐ Postal			Name	J.Wotton	Signature			Date	19.01.2024	Time				
Eurofins mgt Laboratory Use Only	Received By	SYD BNE MEL PER ADL NTL DRW			Signature			Date	Time	Temperature								
	Received By	SYD BNE MEL PER ADL NTL DRW			Signature			Date	Time	Report No								

CHAIN OF CUSTODY RECORD

Eurofins | mgt ABN 50 005 085 521

☐ Sydney Laboratory

Unit F3 Bld.F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

☒ Brisbane Laboratory

Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory

Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

 Melbourne Laboratory

6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

[illegible]

Eurofins Environment Testing Australia Pty Ltd trading as Eurofins | mgt

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.



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Eurofins | mgt ABN 50 005 085 521

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☒ Brisbane Laboratory
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☐ Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

☐ Melbourne Laboratory
6 Montorey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

Company	Douglas Partners	Project No	219361.02	Project Manager	Rob Muller	Sampler(s)	Jesse Wotton												
Address	439 Montague Road, West End	Project Name	219361.02	EDD Format ESdat, EOWIS, etc	Esdat	Handed over by	Courier												
Contact Name	Paul Barfield	Analyses Where notes are requested, please specify "Total" or "Filtered" SUITE code must be used to attract SUITE pricing	Arsenic Carbamate pesticides Suite B14 Synthetic pyrethroids Acid Herbicides (phenoxy Acetic Acid) (standard) TRH C6-C10BTEX			Email for Invoice	brisbane@douglaspartners.com.au												
Phone No	07 3237 8900					Email for Results	Rob.Muller@douglaspartners.com.au												
Special Directions						Containers Change container type & size if necessary		Required Turnaround Time (TAT) Default will be 5 days if not booked											
Purchase Order	219361.02					500mL Plastic 250mL Plastic 60mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) Other (Asbestos AS4954, WA Guidelines)		☐ Overnight (reporting by 9am) ♦ ☐ Same day ♦ ☐ 2 days ♦ ☒ 5 days (Standard) ☐ Other()											
Quote ID No																			
No	Client Sample ID	Sampled Date/Time dd/mm/yyyy hh:mm	Matrix Solid (S) Water (W)													Sample Comments / Dangerous Goods Hazard Warning			
1	119/0.1	18/01/24	S	X	X	X	X	X										1	
2	119/0.2	18/1/24	S	X	X	X	X	X										1	
3	119/0.5	18/1/24	S															1	
4	119/1.0	18/1/24	S															1	
5	120/0.1	18/1/24	S	X	X	X	X	X										1	
6	120/0.2	18/1/24	S	X	X	X	X	X										1	
7	120/0.5	18/1/24	S															1	
8	120/1.0	18/1/24	S															1	
9	121/0.1	18/1/24	S	X	X	X	X	X										1	
10	121/0.2	18/1/24	S	X	X	X	X	X										1	
Total Counts				5	5	5	5	5										10	
Method of Shipment	☒ Courier (#) ☐ Hand Delivered ☐ Postal			Name		J.Wotton		Signature		Date		19.01.2024		Time					
Eurofins mgt Laboratory Use Only	Received By	SYD BNE MEL PER ADL NTL DRW			Signature				Date		Time				Temperature				
	Received By	SYD BNE MEL PER ADL NTL DRW			Signature				Date		Time				Report No				



Unit F3 8ld F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Unit 1 21 Smallwood Place Murarrie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

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CHAIN OF CUSTODY RECORD

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 **Sydney Laboratory**
Unit F3 Bld.F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

☒ **Brisbane Laboratory**
Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4500 EnviroSampleQLD@eurofins.com

☐ **Perth Laboratory**
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

 **Melbourne Laboratory**
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

Company		Douglas Partners	Project No 219361.02						Project Manager Rob Muller								Sampler(s) Jesse Wotton							
Address		439 Montague Road, West End	Project Name 219361.02						EDD Format ESdat, EQUIS etc.								Handed over by Courier							
Contact Name		Paul Barfield	Analyses Where metals are requested, please specify "Total" or "Filtered" SUITE code must be used to attract SUITE pricing ArsenicCarbamate pesticidesSuite B14Synthetic pyrethroidsAcid Herbicides (phenoxy Acetic Acid) (standard)TRH C6-C10BTEX														Email for Invoice brisbane@douglaspartners.com.au							
Phone No		07 3237 8900															Email for Results Rob.Muller@douglaspartners.com.au							
Special Directions																	Containers Change container type & size if necessary 500mL Plastic250mL Plastic60mL Plastic200mL Amber Glass40mL VOA vial500mL PFAS BottleJar (Glass or HDPE) Other (Asbestos AS4954, WA Guidelines)							
Purchase Order		219361.02															Required Turnaround Time (TAT) Default will be 5 days if not ticked ☐ Overnight (reporting by 9am)☒ Same day☐ 1 day☐ 2 days☒ 5 days (Standard)☐ 3 days☐ Other(							
Quote ID No																								
No	Client Sample ID		Sampled Date/Time dohmmivvy hh:mm	Matrix Solid (S) Water (W)																Sample Comments / Dangerous Goods Hazard Warning				
1	124/0.1		18/01/24	S	X	X	X	X	X											1				
2	124/0.2		18/1/24	S	X	X	X	X	X											1				
3	124/0.5		18/1/24	S																1				
4	124/1.0		18/1/24	S																1				
5	125/0.1		18/1/24	S	X	X	X	X	X											1				
6	125/0.2		18/1/24	S	X	X	X	X	X											1				
7	125/0.5		18/1/24	S																1				
8	126/0.1		18/1/24	S	X	X	X	X	X											1				
9	126/0.2		18/1/24	S	X	X	X	X	X											1				
10	126/0.5		18/1/24	S																1				
Total Counts					6	6	6	6	6											10				
Method of Shipment		☒ Courier (#) ☐ Hand Delivered ☐ Postal			Name		J.Wotton		Signature		Date		19.01.2024		Time									
Eurofins mgt Laboratory Use Only		Received By			SYD BNE MEL PER ADL NTL DRW		Signature		Date		Time		Temperature											
		Received By			SYD BNE MEL PER ADL NTL DRW		Signature		Date		Time		Report No											

CHAIN OF CUSTODY RECORD

Eurofins Imat ABN 50 005 085 521

 Sydney Laboratory

Unit F3 Bld.F 16 Mars Road Lane Cove West NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory

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 **Melbourne Laboratory**
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

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Eurofins Environment Testing Australia Pty Ltd

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 Murarrie 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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rourke 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

Sample Receipt Advice

Company name:	Douglas Partners (Qld) Pty Ltd
Contact name:	Rob Muller
Project name:	219361.02
Project ID:	219361.02
Turnaround time:	5 Day
Date/Time received	Jan 19, 2024 4:20 PM
Eurofins reference	1061899

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ 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

SAMPLE ID 125/1.0 NOT RECEIVED

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Rob Muller - rob.muller@douglaspartners.com.au.

Note: A copy of these results will also be delivered to the general Douglas Partners (Qld) Pty Ltd email address.



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 Murarrie 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

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

Auckland	Auckland (Asb)	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: Douglas Partners (Qld) Pty Ltd
Address: 439 Montague Road
West End
QLD 4101

Project Name: 219361.02
Project ID: 219361.02

Order No.:
Report #: 1061899
Phone: 07 3237 8900
Fax: 07 3237 8999

Received: Jan 19, 2024 4:20 PM
Due: Jan 29, 2024
Priority: 5 Day
Contact Name: Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
External Laboratory														
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	101/0.1	Jan 15, 2024		Soil	B24-Ja0034463	X		X	X	X	X	X		
2	101/0.2	Jan 15, 2024		Soil	B24-Ja0034464	X		X	X	X	X	X		
3	102/0.1	Jan 17, 2024		Soil	B24-Ja0034465	X		X	X	X	X	X		
4	102/0.2	Jan 17, 2024		Soil	B24-Ja0034466	X		X	X	X	X	X		
5	103/0.1	Jan 17, 2024		Soil	B24-Ja0034467	X		X	X	X	X	X		
6	103/0.2	Jan 17, 2024		Soil	B24-Ja0034468	X		X	X	X	X	X		
7	104/0.1	Jan 17, 2024		Soil	B24-Ja0034469	X		X	X	X	X	X		
8	104/0.2	Jan 17, 2024		Soil	B24-Ja0034470	X		X	X	X	X	X		
9	105/0.1	Jan 17, 2024		Soil	B24-Ja0034471	X		X	X	X	X	X		
10	105/0.2	Jan 17, 2024		Soil	B24-Ja0034472	X		X	X	X	X	X		
11	106/0.1	Jan 17, 2024		Soil	B24-Ja0034473	X		X	X	X	X	X		
12	106/0.3	Jan 17, 2024		Soil	B24-Ja0034474	X		X	X	X	X	X		



web: www.eurofins.com.au
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 Murarrie 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

NZBN: 9429046024954

Auckland	Auckland (Asb)	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: Douglas Partners (Qld) Pty Ltd
Address: 439 Montague Road
West End
QLD 4101

Project Name: 219361.02
Project ID: 219361.02

Order No.:
Report #: 1061899
Phone: 07 3237 8900
Fax: 07 3237 8999

Received: Jan 19, 2024 4:20 PM
Due: Jan 29, 2024
Priority: 5 Day
Contact Name: Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
13	107/0.1	Jan 17, 2024		Soil	B24-Ja0034475	X		X	X	X	X	X		
14	107/0.2	Jan 17, 2024		Soil	B24-Ja0034476	X		X	X	X	X	X		
15	108/0.1	Jan 17, 2024		Soil	B24-Ja0034477	X		X	X	X	X	X		
16	108/0.2	Jan 17, 2024		Soil	B24-Ja0034478	X		X	X	X	X	X		
17	109/0.1	Jan 17, 2024		Soil	B24-Ja0034479	X		X	X	X	X	X		
18	109/0.2	Jan 17, 2024		Soil	B24-Ja0034480	X		X	X	X	X	X		
19	110/0.1	Jan 18, 2024		Soil	B24-Ja0034481	X		X	X	X	X	X		
20	111/0.1	Jan 18, 2024		Soil	B24-Ja0034482	X		X	X	X	X	X		
21	112/0.1	Jan 18, 2024		Soil	B24-Ja0034483	X		X	X	X	X	X		
22	113/0.1	Jan 18, 2024		Soil	B24-Ja0034484	X		X	X	X	X	X		
23	113/0.2	Jan 18, 2024		Soil	B24-Ja0034485	X		X	X	X	X	X		
24	114/0.1	Jan 18, 2024		Soil	B24-Ja0034486	X		X	X	X	X	X		
25	114/0.2	Jan 18, 2024		Soil	B24-Ja0034487	X		X	X	X	X	X		
26	115/0.1	Jan 18, 2024		Soil	B24-Ja0034488	X		X	X	X	X	X		
27	115/0.2	Jan 18, 2024		Soil	B24-Ja0034489	X		X	X	X	X	X		



web: www.eurofins.com.au
email: EnviroSales@eurofins.com

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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ABN: 91 05 0159 898

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

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
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Company Name: Douglas Partners (Qld) Pty Ltd
Address: 439 Montague Road
West End
QLD 4101

Project Name: 219361.02
Project ID: 219361.02

Order No.:
Report #: 1061899
Phone: 07 3237 8900
Fax: 07 3237 8999

Received: Jan 19, 2024 4:20 PM
Due: Jan 29, 2024
Priority: 5 Day
Contact Name: Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
28	116/0.1	Jan 18, 2024		Soil	B24-Ja0034490	X		X	X	X	X	X		
29	116/0.2	Jan 18, 2024		Soil	B24-Ja0034491	X		X	X	X	X	X		
30	117/0.1	Jan 18, 2024		Soil	B24-Ja0034492	X		X	X	X	X	X		
31	117/0.2	Jan 18, 2024		Soil	B24-Ja0034493	X		X	X	X	X	X		
32	118/0.1	Jan 18, 2024		Soil	B24-Ja0034494	X		X	X	X	X	X		
33	118/0.2	Jan 18, 2024		Soil	B24-Ja0034495	X		X	X	X	X	X		
34	119/0.1	Jan 18, 2024		Soil	B24-Ja0034496	X		X	X	X	X	X		
35	119/0.2	Jan 18, 2024		Soil	B24-Ja0034497	X		X	X	X	X	X		
36	120/0.1	Jan 18, 2024		Soil	B24-Ja0034498	X		X	X	X	X	X		
37	120/0.2	Jan 18, 2024		Soil	B24-Ja0034499	X		X	X	X	X	X		
38	121/0.1	Jan 18, 2024		Soil	B24-Ja0034500	X		X	X	X	X	X		
39	121/0.2	Jan 18, 2024		Soil	B24-Ja0034501	X		X	X	X	X	X		
40	122/0.1	Jan 18, 2024		Soil	B24-Ja0034502	X		X	X	X	X	X		
41	122/0.2	Jan 18, 2024		Soil	B24-Ja0034503	X		X	X	X	X	X		
42	123/0.1	Jan 18, 2024		Soil	B24-Ja0034504	X		X	X	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 Murarrie 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

NZBN: 9429046024954

Auckland	Auckland (Asb)	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: Douglas Partners (Qld) Pty Ltd
Address: 439 Montague Road
West End
QLD 4101

Project Name: 219361.02
Project ID: 219361.02

Order No.:
Report #: 1061899
Phone: 07 3237 8900
Fax: 07 3237 8999

Received: Jan 19, 2024 4:20 PM
Due: Jan 29, 2024
Priority: 5 Day
Contact Name: Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
57	TRIP BLANK	Jan 15, 2024		Trip Blank (solid)	B24-Ja0034519								X	
58	TRIP BLANK	Jan 17, 2024		Trip Blank (solid)	B24-Ja0034520								X	
59	TRIP SPIKE	Jan 17, 2024		Trip Spike (liquid)	B24-Ja0034521									X
60	101/0.5	Jan 15, 2024		Soil	B24-Ja0034522		X							
61	101/1	Jan 15, 2024		Soil	B24-Ja0034523		X							
62	102/0.5	Jan 17, 2024		Soil	B24-Ja0034524		X							
63	102/1	Jan 17, 2024		Soil	B24-Ja0034525		X							
64	103/0.5	Jan 17, 2024		Soil	B24-Ja0034526		X							
65	103/1	Jan 17, 2024		Soil	B24-Ja0034527		X							
66	104/0.5	Jan 17, 2024		Soil	B24-Ja0034528		X							
67	104/1	Jan 17, 2024		Soil	B24-Ja0034529		X							
68	105/0.5	Jan 17, 2024		Soil	B24-Ja0034530		X							
69	105/1	Jan 17, 2024		Soil	B24-Ja0034531		X							



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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 Murarrie 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

NZBN: 9429046024954

Auckland	Auckland (Asb)	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: Douglas Partners (Qld) Pty Ltd
Address: 439 Montague Road
West End
QLD 4101

Project Name: 219361.02
Project ID: 219361.02

Order No.:
Report #: 1061899
Phone: 07 3237 8900
Fax: 07 3237 8999

Received: Jan 19, 2024 4:20 PM
Due: Jan 29, 2024
Priority: 5 Day
Contact Name: Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
70	106/0.5	Jan 17, 2024		Soil	B24-Ja0034532		X							
71	106/1	Jan 17, 2024		Soil	B24-Ja0034533		X							
72	107/0.5	Jan 17, 2024		Soil	B24-Ja0034534		X							
73	107/1	Jan 17, 2024		Soil	B24-Ja0034535		X							
74	108/0.5	Jan 17, 2024		Soil	B24-Ja0034536		X							
75	108/1	Jan 17, 2024		Soil	B24-Ja0034537		X							
76	109/0.5	Jan 17, 2024		Soil	B24-Ja0034538		X							
77	109/1	Jan 17, 2024		Soil	B24-Ja0034539		X							
78	110/0.2	Jan 18, 2024		Soil	B24-Ja0034540		X							
79	110/0.5	Jan 18, 2024		Soil	B24-Ja0034541		X							
80	110/1	Jan 18, 2024		Soil	B24-Ja0034542		X							
81	111/0.2	Jan 18, 2024		Soil	B24-Ja0034543		X							
82	111/0.5	Jan 18, 2024		Soil	B24-Ja0034544		X							
83	111/1	Jan 18, 2024		Soil	B24-Ja0034545		X							
84	112/0.2	Jan 18, 2024		Soil	B24-Ja0034546		X							



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 Murarrie 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

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

Auckland	Auckland (Asb)	Christchurch	Tauranga
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Company Name: Douglas Partners (Qld) Pty Ltd
Address: 439 Montague Road
West End
QLD 4101

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Project ID: 219361.02

Order No.:
Report #: 1061899
Phone: 07 3237 8900
Fax: 07 3237 8999

Received: Jan 19, 2024 4:20 PM
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Priority: 5 Day
Contact Name: Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
85	112/0.5	Jan 18, 2024		Soil	B24-Ja0034547		X							
86	112/1	Jan 18, 2024		Soil	B24-Ja0034548		X							
87	113/0.5	Jan 18, 2024		Soil	B24-Ja0034549		X							
88	113/1	Jan 18, 2024		Soil	B24-Ja0034550		X							
89	114/0.5	Jan 18, 2024		Soil	B24-Ja0034551		X							
90	114/1	Jan 18, 2024		Soil	B24-Ja0034552		X							
91	115/0.5	Jan 18, 2024		Soil	B24-Ja0034553		X							
92	115/1	Jan 18, 2024		Soil	B24-Ja0034554		X							
93	116/0.5	Jan 18, 2024		Soil	B24-Ja0034555		X							
94	116/1	Jan 18, 2024		Soil	B24-Ja0034556		X							
95	117/0.4	Jan 18, 2024		Soil	B24-Ja0034557		X							
96	118/0.4	Jan 18, 2024		Soil	B24-Ja0034558		X							
97	119/0.5	Jan 18, 2024		Soil	B24-Ja0034559		X							
98	119/1	Jan 18, 2024		Soil	B24-Ja0034560		X							
99	120/0.5	Jan 18, 2024		Soil	B24-Ja0034561		X							



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ABN: 50 005 085 521

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Site# 1254

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NATA# 1261
Site# 25403

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+61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
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Mitchell
ACT 2911
+61 2 6113 8091
NATA# 1261
Site# 25466

Brisbane
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QLD 4172
T: +61 7 3902 4600
NATA# 1261
Site# 20794

Newcastle
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Mayfield West
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+61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
100	120/1	Jan 18, 2024		Soil	B24-Ja0034562		X							
101	121/0.5	Jan 18, 2024		Soil	B24-Ja0034563		X							
102	121/1	Jan 18, 2024		Soil	B24-Ja0034564		X							
103	122/0.5	Jan 18, 2024		Soil	B24-Ja0034565		X							
104	122/1	Jan 18, 2024		Soil	B24-Ja0034566		X							
105	123/0.5	Jan 18, 2024		Soil	B24-Ja0034567		X							
106	123/1	Jan 18, 2024		Soil	B24-Ja0034568		X							
107	124/0.5	Jan 18, 2024		Soil	B24-Ja0034569		X							
108	124/1	Jan 18, 2024		Soil	B24-Ja0034570		X							
109	125/0.5	Jan 18, 2024		Soil	B24-Ja0034571		X							
110	126/0.5	Jan 18, 2024		Soil	B24-Ja0034573		X							
111	126/1	Jan 18, 2024		Soil	B24-Ja0034574		X							
112	D3	Jan 18, 2024		Soil	B24-Ja0034575		X							
113	D4	Jan 18, 2024		Soil	B24-Ja0034576		X							
114	D5	Jan 18, 2024		Soil	B24-Ja0034577		X							



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Company Name:	Douglas Partners (Qld) Pty Ltd	Order No.:		Received:	Jan 19, 2024 4:20 PM
Address:	439 Montague Road West End QLD 4101	Report #:	1061899	Due:	Jan 29, 2024
		Phone:	07 3237 8900	Priority:	5 Day
		Fax:	07 3237 8999	Contact Name:	Rob Muller
Project Name:	219361.02				
Project ID:	219361.02				

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
115	D6	Jan 18, 2024		Soil	B24-Ja0034578		X							
116	D8	Jan 18, 2024		Soil	B24-Ja0034579		X							
Test Counts						55	57	52	52	52	52	55	2	2

Douglas Partners Pty Ltd
439 Montague Road
West End
QLD 4101



NATA Accredited
Accreditation Number 1261
Site Number 1254

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: **Rob Muller**

Report **1061899-S**
 Project name **219361.02**
 Project ID **219361.02**
 Received Date **Jan 19, 2024**

Client Sample ID			101/0.1	101/0.2	102/0.1	102/0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034463	B24-Ja0034464	B24-Ja0034465	B24-Ja0034466
Date Sampled			Jan 15, 2024	Jan 15, 2024	Jan 17, 2024	Jan 17, 2024
Test/Reference	LOR	Unit				
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
Dibutylchlorendate (surr.)	1	%	77	89	136	147
Tetrachloro-m-xylene (surr.)	1	%	102	93	85	90
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

Client Sample ID			101/0.1	101/0.2	102/0.1	102/0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034463	B24-Ja0034464	B24-Ja0034465	B24-Ja0034466
Date Sampled			Jan 15, 2024	Jan 15, 2024	Jan 17, 2024	Jan 17, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
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	%	116	112	124	119
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	< 2
Bendiocarb	2	mg/kg	< 2	< 2	< 2	< 2
Carbaryl	2	mg/kg	< 2	< 2	< 2	< 2
Carbofuran	2	mg/kg	< 2	< 2	< 2	< 2
Methomyl	2	mg/kg	< 2	< 2	< 2	< 2
Oxamyl	2	mg/kg	< 2	< 2	< 2	< 2
Thiobencarb	2	mg/kg	< 2	< 2	< 2	< 2
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	< 2
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	< 2
Permethrin	2	mg/kg	< 2	< 2	< 2	< 2
Phenothrin*	2	mg/kg	< 2	< 2	< 2	< 2
Resmethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	< 2

Client Sample ID			101/0.1	101/0.2	102/0.1	102/0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034463	B24-Ja0034464	B24-Ja0034465	B24-Ja0034466
Date Sampled			Jan 15, 2024	Jan 15, 2024	Jan 17, 2024	Jan 17, 2024
Test/Reference	LOR	Unit				
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Atril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	98	88	95	94
Heavy Metals						
Arsenic	2	mg/kg	5.5	3.2	5.8	6.1
Sample Properties						
% Moisture	1	%	15	26	42	21

Client Sample ID			103/0.1	103/0.2	104/0.1	104/0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034467	B24-Ja0034468	B24-Ja0034469	B24-Ja0034470
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 17, 2024	Jan 17, 2024
Test/Reference	LOR	Unit				
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

Client Sample ID			103/0.1	103/0.2	104/0.1	104/0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034467	B24-Ja0034468	B24-Ja0034469	B24-Ja0034470
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 17, 2024	Jan 17, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	91	136	81	139
Tetrachloro-m-xylene (surr.)	1	%	85	91	98	88
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	%	140	111	78	117
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	< 2
Bendiocarb	2	mg/kg	< 2	< 2	< 2	< 2
Carbaryl	2	mg/kg	< 2	< 2	< 2	< 2
Carbofuran	2	mg/kg	< 2	< 2	< 2	< 2
Methomyl	2	mg/kg	< 2	< 2	< 2	< 2
Oxamyl	2	mg/kg	< 2	< 2	< 2	< 2
Thiobencarb	2	mg/kg	< 2	< 2	< 2	< 2

Client Sample ID			103/0.1	103/0.2	104/0.1	104/0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034467	B24-Ja0034468	B24-Ja0034469	B24-Ja0034470
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 17, 2024	Jan 17, 2024
Test/Reference	LOR	Unit				
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	< 2
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	< 2
Permethrin	2	mg/kg	< 2	< 2	< 2	< 2
Phenothrin*	2	mg/kg	< 2	< 2	< 2	< 2
Resmethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Atril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	91	132	114	129
Heavy Metals						
Arsenic	2	mg/kg	6.2	6.0	5.5	4.1
Sample Properties						
% Moisture	1	%	25	24	30	27

Client Sample ID			105/0.1	105/0.2	106/0.1	106/0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034471	B24-Ja0034472	B24-Ja0034473	B24-Ja0034474
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 17, 2024	Jan 17, 2024
Test/Reference	LOR	Unit				
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

Client Sample ID			105/0.1	105/0.2	106/0.1	106/0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034471	B24-Ja0034472	B24-Ja0034473	B24-Ja0034474
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 17, 2024	Jan 17, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	%	139	82	79	82
Tetrachloro-m-xylene (surr.)	1	%	85	52	99	90
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	%	125	70	123	91

Client Sample ID			105/0.1	105/0.2	106/0.1	106/0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034471	B24-Ja0034472	B24-Ja0034473	B24-Ja0034474
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 17, 2024	Jan 17, 2024
Test/Reference	LOR	Unit				
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	< 2
Bendiocarb	2	mg/kg	< 2	< 2	< 2	< 2
Carbaryl	2	mg/kg	< 2	< 2	< 2	< 2
Carbofuran	2	mg/kg	< 2	< 2	< 2	< 2
Methomyl	2	mg/kg	< 2	< 2	< 2	< 2
Oxamyl	2	mg/kg	< 2	< 2	< 2	< 2
Thiobencarb	2	mg/kg	< 2	< 2	< 2	< 2
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	< 2
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	< 2
Permethrin	2	mg/kg	< 2	< 2	< 2	< 2
Phenothrin*	2	mg/kg	< 2	< 2	< 2	< 2
Resmethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	92	101	95	109
Heavy Metals						
Arsenic	2	mg/kg	11	6.7	89	18
Sample Properties						
% Moisture	1	%	24	27	15	20

Client Sample ID			107/0.1	107/0.2	108/0.1	108/0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034475	B24-Ja0034476	B24-Ja0034477	B24-Ja0034478
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 17, 2024	Jan 17, 2024
Test/Reference	LOR	Unit				
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

Client Sample ID			107/0.1	107/0.2	108/0.1	108/0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034475	B24-Ja0034476	B24-Ja0034477	B24-Ja0034478
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 17, 2024	Jan 17, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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
Dibutylchlorendate (surr.)	1	%	147	105	117	102
Tetrachloro-m-xylene (surr.)	1	%	91	89	92	90
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

Client Sample ID			107/0.1	107/0.2	108/0.1	108/0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034475	B24-Ja0034476	B24-Ja0034477	B24-Ja0034478
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 17, 2024	Jan 17, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
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	%	118	97	105	95
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	< 2
Bendiocarb	2	mg/kg	< 2	< 2	< 2	< 2
Carbaryl	2	mg/kg	< 2	< 2	< 2	< 2
Carbofuran	2	mg/kg	< 2	< 2	< 2	< 2
Methomyl	2	mg/kg	< 2	< 2	< 2	< 2
Oxamyl	2	mg/kg	< 2	< 2	< 2	< 2
Thiobencarb	2	mg/kg	< 2	< 2	< 2	< 2
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	< 2
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	< 2
Permethrin	2	mg/kg	< 2	< 2	< 2	< 2
Phenothrin*	2	mg/kg	< 2	< 2	< 2	< 2
Resmethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	109	107	79	110
Heavy Metals						
Arsenic	2	mg/kg	7.0	4.0	5.0	5.3
Sample Properties						
% Moisture	1	%	13	19	46	26

Client Sample ID			109/0.1	109/0.2	110/0.1	111/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034479	B24-Ja0034480	B24-Ja0034481	B24-Ja0034482
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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
Dibutylchlorendate (surr.)	1	%	88	117	76	67
Tetrachloro-m-xylene (surr.)	1	%	78	117	72	61
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			109/0.1	109/0.2	110/0.1	111/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034479	B24-Ja0034480	B24-Ja0034481	B24-Ja0034482
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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	%	87	100	65	52
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	< 2
Bendiocarb	2	mg/kg	< 2	< 2	< 2	< 2
Carbaryl	2	mg/kg	< 2	< 2	< 2	< 2
Carbofuran	2	mg/kg	< 2	< 2	< 2	< 2
Methomyl	2	mg/kg	< 2	< 2	< 2	< 2
Oxamyl	2	mg/kg	< 2	< 2	< 2	< 2
Thiobencarb	2	mg/kg	< 2	< 2	< 2	< 2
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	< 2
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	< 2
Permethrin	2	mg/kg	< 2	< 2	< 2	< 2
Phenothrin*	2	mg/kg	< 2	< 2	< 2	< 2
Resmethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	105	106	103	124
Heavy Metals						
Arsenic	2	mg/kg	6.9	5.0	4.2	6.9
Sample Properties						
% Moisture	1	%	20	25	40	24

Client Sample ID			112/0.1	113/0.1	113/0.2	114/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034483	B24-Ja0034484	B24-Ja0034485	B24-Ja0034486
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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	%	56	119	95	98
Tetrachloro-m-xylene (surr.)	1	%	66	91	65	98
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			112/0.1	113/0.1	113/0.2	114/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034483	B24-Ja0034484	B24-Ja0034485	B24-Ja0034486
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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	%	60	117	51	147
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	< 2
Bendiocarb	2	mg/kg	< 2	< 2	< 2	< 2
Carbaryl	2	mg/kg	< 2	< 2	< 2	< 2
Carbofuran	2	mg/kg	< 2	< 2	< 2	< 2
Methomyl	2	mg/kg	< 2	< 2	< 2	< 2
Oxamyl	2	mg/kg	< 2	< 2	< 2	< 2
Thiobencarb	2	mg/kg	< 2	< 2	< 2	< 2
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	< 2
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	< 2
Permethrin	2	mg/kg	< 2	< 2	< 2	< 2
Phenothrin*	2	mg/kg	< 2	< 2	< 2	< 2
Resmethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	120	100	115	102
Heavy Metals						
Arsenic	2	mg/kg	7.1	5.4	7.9	4.6
Sample Properties						
% Moisture	1	%	16	32	16	29

Client Sample ID			114/0.2	115/0.1	115/0.2	116/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034487	B24-Ja0034488	B24-Ja0034489	B24-Ja0034490
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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	%	87	72	76	78
Tetrachloro-m-xylene (surr.)	1	%	66	95	76	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

Client Sample ID			114/0.2	115/0.1	115/0.2	116/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034487	B24-Ja0034488	B24-Ja0034489	B24-Ja0034490
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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	%	52	84	53	147
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	< 2
Bendiocarb	2	mg/kg	< 2	< 2	< 2	< 2
Carbaryl	2	mg/kg	< 2	< 2	< 2	< 2
Carbofuran	2	mg/kg	< 2	< 2	< 2	< 2
Methomyl	2	mg/kg	< 2	< 2	< 2	< 2
Oxamyl	2	mg/kg	< 2	< 2	< 2	< 2
Thiobencarb	2	mg/kg	< 2	< 2	< 2	< 2
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	< 2
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	< 2
Permethrin	2	mg/kg	< 2	< 2	< 2	< 2
Phenothrin*	2	mg/kg	< 2	< 2	< 2	< 2
Resmethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	120	93	121	117
Heavy Metals						
Arsenic	2	mg/kg	8.0	6.0	4.3	4.3
Sample Properties						
% Moisture	1	%	21	35	26	22

Client Sample ID			116/0.2	117/0.1	117/0.2	118/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034491	B24-Ja0034492	B24-Ja0034493	B24-Ja0034494
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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	%	51	75	65	82
Tetrachloro-m-xylene (surr.)	1	%	76	98	83	67
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			116/0.2	117/0.1	117/0.2	118/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034491	B24-Ja0034492	B24-Ja0034493	B24-Ja0034494
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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	%	78	137	90	97
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	< 2
Bendiocarb	2	mg/kg	< 2	< 2	< 2	< 2
Carbaryl	2	mg/kg	< 2	< 2	< 2	< 2
Carbofuran	2	mg/kg	< 2	< 2	< 2	< 2
Methomyl	2	mg/kg	< 2	< 2	< 2	< 2
Oxamyl	2	mg/kg	< 2	< 2	< 2	< 2
Thiobencarb	2	mg/kg	< 2	< 2	< 2	< 2
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	< 2
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	< 2
Permethrin	2	mg/kg	< 2	< 2	< 2	< 2
Phenothrin*	2	mg/kg	< 2	< 2	< 2	< 2
Resmethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	122	108	119	95
Heavy Metals						
Arsenic	2	mg/kg	2.9	5.7	5.4	5.8
Sample Properties						
% Moisture	1	%	23	24	20	26

Client Sample ID			118/0.2	119/0.1	119/0.2	120/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034495	B24-Ja0034496	B24-Ja0034497	B24-Ja0034498
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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
Dibutylchlorendate (surr.)	1	%	92	126	104	103
Tetrachloro-m-xylene (surr.)	1	%	86	105	96	100
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			118/0.2	119/0.1	119/0.2	120/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034495	B24-Ja0034496	B24-Ja0034497	B24-Ja0034498
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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	%	64	132	100	92
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	< 2
Bendiocarb	2	mg/kg	< 2	< 2	< 2	< 2
Carbaryl	2	mg/kg	< 2	< 2	< 2	< 2
Carbofuran	2	mg/kg	< 2	< 2	< 2	< 2
Methomyl	2	mg/kg	< 2	< 2	< 2	< 2
Oxamyl	2	mg/kg	< 2	< 2	< 2	< 2
Thiobencarb	2	mg/kg	< 2	< 2	< 2	< 2
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	< 2
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	< 2
Permethrin	2	mg/kg	< 2	< 2	< 2	< 2
Phenothrin*	2	mg/kg	< 2	< 2	< 2	< 2
Resmethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	115	79	86	92
Heavy Metals						
Arsenic	2	mg/kg	7.9	7.2	4.8	4.7
Sample Properties						
% Moisture	1	%	26	51	21	21

Client Sample ID			120/0.2	121/0.1	121/0.2	122/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034499	B24-Ja0034500	B24-Ja0034501	B24-Ja0034502
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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	%	94	105	82	140
Tetrachloro-m-xylene (surr.)	1	%	92	95	98	87
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			120/0.2	121/0.1	121/0.2	122/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034499	B24-Ja0034500	B24-Ja0034501	B24-Ja0034502
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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	%	90	99	126	125
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	< 2
Bendiocarb	2	mg/kg	< 2	< 2	< 2	< 2
Carbaryl	2	mg/kg	< 2	< 2	< 2	< 2
Carbofuran	2	mg/kg	< 2	< 2	< 2	< 2
Methomyl	2	mg/kg	< 2	< 2	< 2	< 2
Oxamyl	2	mg/kg	< 2	< 2	< 2	< 2
Thiobencarb	2	mg/kg	< 2	< 2	< 2	< 2
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	< 2
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	< 2
Permethrin	2	mg/kg	< 2	< 2	< 2	< 2
Phenothrin*	2	mg/kg	< 2	< 2	< 2	< 2
Resmethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	96	87	95	89
Heavy Metals						
Arsenic	2	mg/kg	4.7	3.9	3.6	8.7
Sample Properties						
% Moisture	1	%	24	19	18	43

Client Sample ID			122/0.2	123/0.1	123/0.2	124/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034503	B24-Ja0034504	B24-Ja0034505	B24-Ja0034506
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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
Dibutylchlorendate (surr.)	1	%	80	131	118	77
Tetrachloro-m-xylene (surr.)	1	%	94	89	93	55
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			122/0.2	123/0.1	123/0.2	124/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034503	B24-Ja0034504	B24-Ja0034505	B24-Ja0034506
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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	%	134	142	116	65
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	< 2
Bendiocarb	2	mg/kg	< 2	< 2	< 2	< 2
Carbaryl	2	mg/kg	< 2	< 2	< 2	< 2
Carbofuran	2	mg/kg	< 2	< 2	< 2	< 2
Methomyl	2	mg/kg	< 2	< 2	< 2	< 2
Oxamyl	2	mg/kg	< 2	< 2	< 2	< 2
Thiobencarb	2	mg/kg	< 2	< 2	< 2	< 2
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	< 2
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	< 2
Permethrin	2	mg/kg	< 2	< 2	< 2	< 2
Phenothrin*	2	mg/kg	< 2	< 2	< 2	< 2
Resmethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	94	84	93	84
Heavy Metals						
Arsenic	2	mg/kg	3.4	4.9	3.5	5.4
Sample Properties						
% Moisture	1	%	22	37	16	42

Client Sample ID			124/0.2	125/0.1	125/0.2	126/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034507	B24-Ja0034508	B24-Ja0034509	B24-Ja0034510
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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
Dibutylchlorendate (surr.)	1	%	52	114	104	111
Tetrachloro-m-xylene (surr.)	1	%	61	94	70	70
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			124/0.2	125/0.1	125/0.2	126/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034507	B24-Ja0034508	B24-Ja0034509	B24-Ja0034510
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
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	%	77	97	84	85
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	< 2
Bendiocarb	2	mg/kg	< 2	< 2	< 2	< 2
Carbaryl	2	mg/kg	< 2	< 2	< 2	< 2
Carbofuran	2	mg/kg	< 2	< 2	< 2	< 2
Methomyl	2	mg/kg	< 2	< 2	< 2	< 2
Oxamyl	2	mg/kg	< 2	< 2	< 2	< 2
Thiobencarb	2	mg/kg	< 2	< 2	< 2	< 2
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	< 2
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	< 2
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	< 2
Permethrin	2	mg/kg	< 2	< 2	< 2	< 2
Phenothrin*	2	mg/kg	< 2	< 2	< 2	< 2
Resmethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	< 2
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Warfarin (surr.)	1	%	91	84	91	83
Heavy Metals						
Arsenic	2	mg/kg	3.5	6.5	23	9.4
Sample Properties						
% Moisture	1	%	20	30	16	34

Client Sample ID			126/0.2	D1	D2	D7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034511	B24-Ja0034512	B24-Ja0034513	B24-Ja0034514
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	141	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	93	-	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-	-
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Merphos	0.2	mg/kg	< 0.2	-	-	-

Client Sample ID			126/0.2	D1	D2	D7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B24-Ja0034511	B24-Ja0034512	B24-Ja0034513	B24-Ja0034514
Date Sampled			Jan 18, 2024	Jan 18, 2024	Jan 18, 2024	Jan 18, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	116	-	-	-
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	-	-	-
Bendiocarb	2	mg/kg	< 2	-	-	-
Carbaryl	2	mg/kg	< 2	-	-	-
Carbofuran	2	mg/kg	< 2	-	-	-
Methomyl	2	mg/kg	< 2	-	-	-
Oxamyl	2	mg/kg	< 2	-	-	-
Thiobencarb	2	mg/kg	< 2	-	-	-
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	-	-	-
Cyfluthrin*	2	mg/kg	< 2	-	-	-
Cypermethrin (total)*	2	mg/kg	< 2	-	-	-
Fenvalerate*	2	mg/kg	< 2	-	-	-
Permethrin	2	mg/kg	< 2	-	-	-
Phenothrin*	2	mg/kg	< 2	-	-	-
Resmethrin*	2	mg/kg	< 2	-	-	-
Tetramethrin*	2	mg/kg	< 2	-	-	-
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	-	-	-
2,4-DB	0.5	mg/kg	< 0.5	-	-	-
2,4,5-T	0.5	mg/kg	< 0.5	-	-	-
2,4,5-TP	0.5	mg/kg	< 0.5	-	-	-
Actril (loxylin)	0.5	mg/kg	< 0.5	-	-	-
Dicamba	0.5	mg/kg	< 0.5	-	-	-
Dichlorprop	0.5	mg/kg	< 0.5	-	-	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	-	-
Dinoseb	0.5	mg/kg	< 0.5	-	-	-
MCPA	0.5	mg/kg	< 0.5	-	-	-
MCPB	0.5	mg/kg	< 0.5	-	-	-
Mecoprop	0.5	mg/kg	< 0.5	-	-	-
Warfarin (surr.)	1	%	96	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	5.0	3.9	20	4.8
Sample Properties						
% Moisture	1	%	24	21	20	18

Client Sample ID			127/0.1	128/0.1	129/0.1	TRIP BLANK
Sample Matrix			Soil	Soil	Soil	Trip Blank (solid)
Eurofins Sample No.			B24-Ja0034515	B24-Ja0034516	B24-Ja0034517	B24-Ja0034519
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 17, 2024	Jan 15, 2024
Test/Reference	LOR	Unit				
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	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
d-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	-
g-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	-
Dibutylchlorodate (surr.)	1	%	80	70	147	-
Tetrachloro-m-xylene (surr.)	1	%	105	67	94	-
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	-

Client Sample ID			127/0.1	128/0.1	129/0.1	TRIP BLANK
Sample Matrix			Soil	Soil	Soil	Trip Blank (solid)
Eurofins Sample No.			B24-Ja0034515	B24-Ja0034516	B24-Ja0034517	B24-Ja0034519
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 17, 2024	Jan 15, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
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	%	119	81	126	-
Carbamate Pesticides						
Aldicarb	2	mg/kg	< 2	< 2	< 2	-
Bendiocarb	2	mg/kg	< 2	< 2	< 2	-
Carbaryl	2	mg/kg	< 2	< 2	< 2	-
Carbofuran	2	mg/kg	< 2	< 2	< 2	-
Methomyl	2	mg/kg	< 2	< 2	< 2	-
Oxamyl	2	mg/kg	< 2	< 2	< 2	-
Thiobencarb	2	mg/kg	< 2	< 2	< 2	-
Synthetic Pyrethroids*						
Allethrin*	2	mg/kg	< 2	< 2	< 2	-
Cyfluthrin*	2	mg/kg	< 2	< 2	< 2	-
Cypermethrin (total)*	2	mg/kg	< 2	< 2	< 2	-
Fenvalerate*	2	mg/kg	< 2	< 2	< 2	-
Permethrin	2	mg/kg	< 2	< 2	< 2	-
Phenothrin*	2	mg/kg	< 2	< 2	< 2	-
Resmethrin*	2	mg/kg	< 2	< 2	< 2	-
Tetramethrin*	2	mg/kg	< 2	< 2	< 2	-
Acid Herbicides						
2,4-D	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2,4-DB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2,4,5-T	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2,4,5-TP	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dicamba	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
MCPA	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
MCPB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Warfarin (surr.)	1	%	121	102	89	-
Heavy Metals						
Arsenic	2	mg/kg	5.4	4.6	5.0	-
Sample Properties						
% Moisture	1	%	36	55	28	-

Client Sample ID			127/0.1	128/0.1	129/0.1	TRIP BLANK
Sample Matrix			Soil	Soil	Soil	Trip Blank (solid)
Eurofins Sample No.			B24-Ja0034515	B24-Ja0034516	B24-Ja0034517	B24-Ja0034519
Date Sampled			Jan 17, 2024	Jan 17, 2024	Jan 17, 2024	Jan 15, 2024
Test/Reference	LOR	Unit				
Naphthalene ^{N02}	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	-	< 20
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	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	%	-	-	-	103
Total Recoverable Hydrocarbons						
TRH C6-C10	20	mg/kg	-	-	-	< 20

Client Sample ID			TRIP BLANK
Sample Matrix			Trip Blank (solid)
Eurofins Sample No.			B24-Ja0034520
Date Sampled			Jan 17, 2024
Test/Reference	LOR	Unit	
Naphthalene ^{N02}	0.5	mg/kg	< 0.5
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	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	%	68
Total Recoverable Hydrocarbons			
TRH C6-C10	20	mg/kg	< 20

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
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	Jan 30, 2024	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Jan 30, 2024	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
Carbamate Pesticides	Melbourne	Jan 30, 2024	14 Days
- Method: LTM-ORG-2290 Carbamates in waters and soils by HPLC			
Synthetic Pyrethroids*	Melbourne	Jan 30, 2024	14 Days
- Method: LTM-ORG-2170 Synthetic Pyrethroids by HPLC-UV			
Acid Herbicides	Melbourne	Jan 30, 2024	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
Heavy Metals	Melbourne	Jan 30, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Melbourne	Jan 23, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			
Naphthalene	Brisbane	Jan 31, 2024	14 Days
- Method: USEPA 8260B - MGT 350A Volatile Organics by GCMS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Brisbane	Jan 31, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Brisbane	Jan 31, 2024	14 Days
- Method: USEPA SW846 8260			
Total Recoverable Hydrocarbons	Brisbane	Jan 31, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			



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ABN: 50 005 085 521

Melbourne 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	Sydney 179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	Brisbane 1/21 Smallwood Place Murarie QLD 4172 T: +61 7 3902 4600 NATA# 1261 Site# 20794	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289
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ABN: 91 05 0159 898

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

NZBN: 9429046024954

Auckland 35 O'Rorke Road Penrose, Auckland 1061 +64 9 526 4551 IANZ# 1327	Auckland (Asb) Unit C1/4 Pacific Rise, Mount Wellington, Auckland 1061 +64 9 525 0568 IANZ# 1308	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 +64 3 343 5201 IANZ# 1290	Tauranga 1277 Cameron Road, Gate Pa, Tauranga 3112 +64 9 525 0568 IANZ# 1402
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Company Name: Douglas Partners (Qld) Pty Ltd
Address: 439 Montague Road
West End
QLD 4101

Project Name: 219361.02
Project ID: 219361.02

Order No.:
Report #: 1061899
Phone: 07 3237 8900
Fax: 07 3237 8999

Received: Jan 19, 2024 4:20 PM
Due: Jan 29, 2024
Priority: 5 Day
Contact Name: Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
External Laboratory														
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	101/0.1	Jan 15, 2024		Soil	B24-Ja0034463	X		X	X	X	X	X		
2	101/0.2	Jan 15, 2024		Soil	B24-Ja0034464	X		X	X	X	X	X		
3	102/0.1	Jan 17, 2024		Soil	B24-Ja0034465	X		X	X	X	X	X		
4	102/0.2	Jan 17, 2024		Soil	B24-Ja0034466	X		X	X	X	X	X		
5	103/0.1	Jan 17, 2024		Soil	B24-Ja0034467	X		X	X	X	X	X		
6	103/0.2	Jan 17, 2024		Soil	B24-Ja0034468	X		X	X	X	X	X		
7	104/0.1	Jan 17, 2024		Soil	B24-Ja0034469	X		X	X	X	X	X		
8	104/0.2	Jan 17, 2024		Soil	B24-Ja0034470	X		X	X	X	X	X		
9	105/0.1	Jan 17, 2024		Soil	B24-Ja0034471	X		X	X	X	X	X		
10	105/0.2	Jan 17, 2024		Soil	B24-Ja0034472	X		X	X	X	X	X		
11	106/0.1	Jan 17, 2024		Soil	B24-Ja0034473	X		X	X	X	X	X		
12	106/0.3	Jan 17, 2024		Soil	B24-Ja0034474	X		X	X	X	X	X		



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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 Murarrie 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

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rourke 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: Douglas Partners (Qld) Pty Ltd
Address: 439 Montague Road
West End
QLD 4101

Project Name: 219361.02
Project ID: 219361.02

Order No.:
Report #: 1061899
Phone: 07 3237 8900
Fax: 07 3237 8999

Received: Jan 19, 2024 4:20 PM
Due: Jan 29, 2024
Priority: 5 Day
Contact Name: Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
13	107/0.1	Jan 17, 2024		Soil	B24-Ja0034475	X		X	X	X	X	X		
14	107/0.2	Jan 17, 2024		Soil	B24-Ja0034476	X		X	X	X	X	X		
15	108/0.1	Jan 17, 2024		Soil	B24-Ja0034477	X		X	X	X	X	X		
16	108/0.2	Jan 17, 2024		Soil	B24-Ja0034478	X		X	X	X	X	X		
17	109/0.1	Jan 17, 2024		Soil	B24-Ja0034479	X		X	X	X	X	X		
18	109/0.2	Jan 17, 2024		Soil	B24-Ja0034480	X		X	X	X	X	X		
19	110/0.1	Jan 18, 2024		Soil	B24-Ja0034481	X		X	X	X	X	X		
20	111/0.1	Jan 18, 2024		Soil	B24-Ja0034482	X		X	X	X	X	X		
21	112/0.1	Jan 18, 2024		Soil	B24-Ja0034483	X		X	X	X	X	X		
22	113/0.1	Jan 18, 2024		Soil	B24-Ja0034484	X		X	X	X	X	X		
23	113/0.2	Jan 18, 2024		Soil	B24-Ja0034485	X		X	X	X	X	X		
24	114/0.1	Jan 18, 2024		Soil	B24-Ja0034486	X		X	X	X	X	X		
25	114/0.2	Jan 18, 2024		Soil	B24-Ja0034487	X		X	X	X	X	X		
26	115/0.1	Jan 18, 2024		Soil	B24-Ja0034488	X		X	X	X	X	X		
27	115/0.2	Jan 18, 2024		Soil	B24-Ja0034489	X		X	X	X	X	X		



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Melbourne 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	Sydney 179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	Brisbane 1/21 Smallwood Place Murarie QLD 4172 T: +61 7 3902 4600 NATA# 1261 Site# 20794	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289
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Perth 46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 +64 9 526 4551 IANZ# 1327	Auckland (Asb) Unit C1/4 Pacific Rise, Mount Wellington, Auckland 1061 +64 9 525 0568 IANZ# 1308	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 +64 3 343 5201 IANZ# 1290	Tauranga 1277 Cameron Road, Gate Pa, Tauranga 3112 +64 9 525 0568 IANZ# 1402
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Company Name:	Douglas Partners (Qld) Pty Ltd	Order No.:		Received:	Jan 19, 2024 4:20 PM
Address:	439 Montague Road West End QLD 4101	Report #:	1061899	Due:	Jan 29, 2024
		Phone:	07 3237 8900	Priority:	5 Day
		Fax:	07 3237 8999	Contact Name:	Rob Muller
Project Name:	219361.02				
Project ID:	219361.02				

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
28	116/0.1	Jan 18, 2024		Soil	B24-Ja0034490	X		X	X	X	X	X		
29	116/0.2	Jan 18, 2024		Soil	B24-Ja0034491	X		X	X	X	X	X		
30	117/0.1	Jan 18, 2024		Soil	B24-Ja0034492	X		X	X	X	X	X		
31	117/0.2	Jan 18, 2024		Soil	B24-Ja0034493	X		X	X	X	X	X		
32	118/0.1	Jan 18, 2024		Soil	B24-Ja0034494	X		X	X	X	X	X		
33	118/0.2	Jan 18, 2024		Soil	B24-Ja0034495	X		X	X	X	X	X		
34	119/0.1	Jan 18, 2024		Soil	B24-Ja0034496	X		X	X	X	X	X		
35	119/0.2	Jan 18, 2024		Soil	B24-Ja0034497	X		X	X	X	X	X		
36	120/0.1	Jan 18, 2024		Soil	B24-Ja0034498	X		X	X	X	X	X		
37	120/0.2	Jan 18, 2024		Soil	B24-Ja0034499	X		X	X	X	X	X		
38	121/0.1	Jan 18, 2024		Soil	B24-Ja0034500	X		X	X	X	X	X		
39	121/0.2	Jan 18, 2024		Soil	B24-Ja0034501	X		X	X	X	X	X		
40	122/0.1	Jan 18, 2024		Soil	B24-Ja0034502	X		X	X	X	X	X		
41	122/0.2	Jan 18, 2024		Soil	B24-Ja0034503	X		X	X	X	X	X		
42	123/0.1	Jan 18, 2024		Soil	B24-Ja0034504	X		X	X	X	X	X		



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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 Murarrie 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

NZBN: 9429046024954

Auckland	Auckland (Asb)	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: Douglas Partners (Qld) Pty Ltd
Address: 439 Montague Road
West End
QLD 4101

Project Name: 219361.02
Project ID: 219361.02

Order No.:
Report #: 1061899
Phone: 07 3237 8900
Fax: 07 3237 8999

Received: Jan 19, 2024 4:20 PM
Due: Jan 29, 2024
Priority: 5 Day
Contact Name: Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
43	123/0.2	Jan 18, 2024		Soil	B24-Ja0034505	X		X	X	X	X	X		
44	124/0.1	Jan 18, 2024		Soil	B24-Ja0034506	X		X	X	X	X	X		
45	124/0.2	Jan 18, 2024		Soil	B24-Ja0034507	X		X	X	X	X	X		
46	125/0.1	Jan 18, 2024		Soil	B24-Ja0034508	X		X	X	X	X	X		
47	125/0.2	Jan 18, 2024		Soil	B24-Ja0034509	X		X	X	X	X	X		
48	126/0.1	Jan 18, 2024		Soil	B24-Ja0034510	X		X	X	X	X	X		
49	126/0.2	Jan 18, 2024		Soil	B24-Ja0034511	X		X	X	X	X	X		
50	D1	Jan 18, 2024		Soil	B24-Ja0034512	X						X		
51	D2	Jan 18, 2024		Soil	B24-Ja0034513	X						X		
52	D7	Jan 18, 2024		Soil	B24-Ja0034514	X						X		
53	127/0.1	Jan 17, 2024		Soil	B24-Ja0034515	X		X	X	X	X	X		
54	128/0.1	Jan 17, 2024		Soil	B24-Ja0034516	X		X	X	X	X	X		
55	129/0.1	Jan 17, 2024		Soil	B24-Ja0034517	X		X	X	X	X	X		
56	TRIP SPIKE	Jan 15, 2024		Trip Spike (liquid)	B24-Ja0034518									X



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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 Murarrie 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

NZBN: 9429046024954

Auckland	Auckland (Asb)	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: Douglas Partners (Qld) Pty Ltd
Address: 439 Montague Road
West End
QLD 4101

Project Name: 219361.02
Project ID: 219361.02

Order No.:
Report #: 1061899
Phone: 07 3237 8900
Fax: 07 3237 8999

Received: Jan 19, 2024 4:20 PM
Due: Jan 29, 2024
Priority: 5 Day
Contact Name: Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
57	TRIP BLANK	Jan 15, 2024		Trip Blank (solid)	B24-Ja0034519								X	
58	TRIP BLANK	Jan 17, 2024		Trip Blank (solid)	B24-Ja0034520								X	
59	TRIP SPIKE	Jan 17, 2024		Trip Spike (liquid)	B24-Ja0034521									X
60	101/0.5	Jan 15, 2024		Soil	B24-Ja0034522		X							
61	101/1	Jan 15, 2024		Soil	B24-Ja0034523		X							
62	102/0.5	Jan 17, 2024		Soil	B24-Ja0034524		X							
63	102/1	Jan 17, 2024		Soil	B24-Ja0034525		X							
64	103/0.5	Jan 17, 2024		Soil	B24-Ja0034526		X							
65	103/1	Jan 17, 2024		Soil	B24-Ja0034527		X							
66	104/0.5	Jan 17, 2024		Soil	B24-Ja0034528		X							
67	104/1	Jan 17, 2024		Soil	B24-Ja0034529		X							
68	105/0.5	Jan 17, 2024		Soil	B24-Ja0034530		X							
69	105/1	Jan 17, 2024		Soil	B24-Ja0034531		X							



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ABN: 50 005 085 521						ABN: 91 05 0159 898		NZBN: 9429046024954			
Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle	Perth	Auckland	Auckland (Asb)	Christchurch	Tauranga	
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive	46-48 Banksia Road	35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,	
Dandenong South	Grovedale	Girraween	Mitchell	Murrarie	Mayfield West	Welshpool	Penrose,	Mount Wellington,	Rolleston,	Gate Pa,	
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304	WA 6106	Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112	
+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	+61 8 6253 4444	+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568	
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 2377	IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402	
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289	Site# 2370					

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		Phone:	07 3237 8900	Priority:	5 Day
		Fax:	07 3237 8999	Contact Name:	Rob Muller
Project Name:	219361.02				
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Eurofins Analytical Services Manager : Zoe Flynn					

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
70	106/0.5	Jan 17, 2024		Soil	B24-Ja0034532		X							
71	106/1	Jan 17, 2024		Soil	B24-Ja0034533		X							
72	107/0.5	Jan 17, 2024		Soil	B24-Ja0034534		X							
73	107/1	Jan 17, 2024		Soil	B24-Ja0034535		X							
74	108/0.5	Jan 17, 2024		Soil	B24-Ja0034536		X							
75	108/1	Jan 17, 2024		Soil	B24-Ja0034537		X							
76	109/0.5	Jan 17, 2024		Soil	B24-Ja0034538		X							
77	109/1	Jan 17, 2024		Soil	B24-Ja0034539		X							
78	110/0.2	Jan 18, 2024		Soil	B24-Ja0034540		X							
79	110/0.5	Jan 18, 2024		Soil	B24-Ja0034541		X							
80	110/1	Jan 18, 2024		Soil	B24-Ja0034542		X							
81	111/0.2	Jan 18, 2024		Soil	B24-Ja0034543		X							
82	111/0.5	Jan 18, 2024		Soil	B24-Ja0034544		X							
83	111/1	Jan 18, 2024		Soil	B24-Ja0034545		X							
84	112/0.2	Jan 18, 2024		Soil	B24-Ja0034546		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 Murarrie 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

NZBN: 9429046024954

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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
85	112/0.5	Jan 18, 2024		Soil	B24-Ja0034547		X							
86	112/1	Jan 18, 2024		Soil	B24-Ja0034548		X							
87	113/0.5	Jan 18, 2024		Soil	B24-Ja0034549		X							
88	113/1	Jan 18, 2024		Soil	B24-Ja0034550		X							
89	114/0.5	Jan 18, 2024		Soil	B24-Ja0034551		X							
90	114/1	Jan 18, 2024		Soil	B24-Ja0034552		X							
91	115/0.5	Jan 18, 2024		Soil	B24-Ja0034553		X							
92	115/1	Jan 18, 2024		Soil	B24-Ja0034554		X							
93	116/0.5	Jan 18, 2024		Soil	B24-Ja0034555		X							
94	116/1	Jan 18, 2024		Soil	B24-Ja0034556		X							
95	117/0.4	Jan 18, 2024		Soil	B24-Ja0034557		X							
96	118/0.4	Jan 18, 2024		Soil	B24-Ja0034558		X							
97	119/0.5	Jan 18, 2024		Soil	B24-Ja0034559		X							
98	119/1	Jan 18, 2024		Soil	B24-Ja0034560		X							
99	120/0.5	Jan 18, 2024		Soil	B24-Ja0034561		X							



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Melbourne 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	Sydney 179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	Brisbane 1/21 Smallwood Place Murarie QLD 4172 T: +61 7 3902 4600 NATA# 1261 Site# 20794	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289	Perth 46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 +64 9 526 4551 IANZ# 1327	Auckland (Asb) Unit C1/4 Pacific Rise, Mount Wellington, Auckland 1061 +64 9 525 0568 IANZ# 1308	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 +64 3 343 5201 IANZ# 1290	Tauranga 1277 Cameron Road, Gate Pa, Tauranga 3112 +64 9 525 0568 IANZ# 1402
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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
100	120/1	Jan 18, 2024		Soil	B24-Ja0034562		X							
101	121/0.5	Jan 18, 2024		Soil	B24-Ja0034563		X							
102	121/1	Jan 18, 2024		Soil	B24-Ja0034564		X							
103	122/0.5	Jan 18, 2024		Soil	B24-Ja0034565		X							
104	122/1	Jan 18, 2024		Soil	B24-Ja0034566		X							
105	123/0.5	Jan 18, 2024		Soil	B24-Ja0034567		X							
106	123/1	Jan 18, 2024		Soil	B24-Ja0034568		X							
107	124/0.5	Jan 18, 2024		Soil	B24-Ja0034569		X							
108	124/1	Jan 18, 2024		Soil	B24-Ja0034570		X							
109	125/0.5	Jan 18, 2024		Soil	B24-Ja0034571		X							
110	126/0.5	Jan 18, 2024		Soil	B24-Ja0034573		X							
111	126/1	Jan 18, 2024		Soil	B24-Ja0034574		X							
112	D3	Jan 18, 2024		Soil	B24-Ja0034575		X							
113	D4	Jan 18, 2024		Soil	B24-Ja0034576		X							
114	D5	Jan 18, 2024		Soil	B24-Ja0034577		X							



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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
115	D6	Jan 18, 2024		Soil	B24-Ja0034578		X							
116	D8	Jan 18, 2024		Soil	B24-Ja0034579		X							
Test Counts						55	57	52	52	52	52	55	2	2

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry weight basis unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
- For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
- Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ppm: parts per million
µg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit	Colour: Pt-Co Units	

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 70 – 130%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
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	
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
Carbamate Pesticides							
Aldicarb	mg/kg	< 2			2	Pass	
Bendiocarb	mg/kg	< 2			2	Pass	
Carbaryl	mg/kg	< 2			2	Pass	
Carbofuran	mg/kg	< 2			2	Pass	
Methomyl	mg/kg	< 2			2	Pass	
Oxamyl	mg/kg	< 2			2	Pass	
Thiobencarb	mg/kg	< 2			2	Pass	
Method Blank							
Synthetic Pyrethroids*							
Allethrin*	mg/kg	< 2			2	Pass	
Cyfluthrin*	mg/kg	< 2			2	Pass	
Cypermethrin (total)*	mg/kg	< 2			2	Pass	
Fenvalerate*	mg/kg	< 2			2	Pass	
Permethrin	mg/kg	< 2			2	Pass	
Phenothrin*	mg/kg	< 2			2	Pass	
Resmethrin*	mg/kg	< 2			2	Pass	
Tetramethrin*	mg/kg	< 2			2	Pass	
Method Blank							
Acid Herbicides							
2,4-D	mg/kg	< 0.5			0.5	Pass	
2,4-DB	mg/kg	< 0.5			0.5	Pass	
2,4,5-T	mg/kg	< 0.5			0.5	Pass	
2,4,5-TP	mg/kg	< 0.5			0.5	Pass	
Actril (loxynil)	mg/kg	< 0.5			0.5	Pass	
Dicamba	mg/kg	< 0.5			0.5	Pass	
Dichlorprop	mg/kg	< 0.5			0.5	Pass	
Dinitro-o-cresol	mg/kg	< 0.5			0.5	Pass	
Dinoseb	mg/kg	< 0.5			0.5	Pass	
MCPA	mg/kg	< 0.5			0.5	Pass	
MCPB	mg/kg	< 0.5			0.5	Pass	
Mecoprop	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Method Blank							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C10	mg/kg	< 20			20	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	89			70-130	Pass	
4.4'-DDD	%	100			70-130	Pass	
4.4'-DDE	%	94			70-130	Pass	
4.4'-DDT	%	112			70-130	Pass	
a-HCH	%	103			70-130	Pass	
Aldrin	%	89			70-130	Pass	
b-HCH	%	89			70-130	Pass	
d-HCH	%	93			70-130	Pass	
Dieldrin	%	99			70-130	Pass	
Endosulfan I	%	90			70-130	Pass	
Endosulfan II	%	76			70-130	Pass	
Endosulfan sulphate	%	77			70-130	Pass	
Endrin	%	99			70-130	Pass	
Endrin aldehyde	%	79			70-130	Pass	
Endrin ketone	%	72			70-130	Pass	
g-HCH (Lindane)	%	109			70-130	Pass	
Heptachlor	%	74			70-130	Pass	
Heptachlor epoxide	%	84			70-130	Pass	
Hexachlorobenzene	%	100			70-130	Pass	
Methoxychlor	%	91			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	121			70-130	Pass	
Dimethoate	%	71			70-130	Pass	
Ethion	%	79			70-130	Pass	
Fenitrothion	%	76			70-130	Pass	
Methyl parathion	%	75			70-130	Pass	
Mevinphos	%	78			70-130	Pass	
LCS - % Recovery							
Carbamate Pesticides							
Aldicarb	%	102			70-130	Pass	
Bendiocarb	%	85			70-130	Pass	
Carbaryl	%	87			70-130	Pass	
Carbofuran	%	85			70-130	Pass	
Methomyl	%	94			70-130	Pass	
Oxamyl	%	94			70-130	Pass	
Thiobencarb	%	94			70-130	Pass	
LCS - % Recovery							
Synthetic Pyrethroids*							
Cyfluthrin*	%	120			70-130	Pass	
Cypermethrin (total)*	%	105			70-130	Pass	
Permethrin	%	123			70-130	Pass	
Resmethrin*	%	90			70-130	Pass	
Tetramethrin*	%	129			70-130	Pass	
LCS - % Recovery							
Acid Herbicides							
2.4-D	%	72			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.4-DB			%	118			70-130	Pass	
2.4.5-T			%	89			70-130	Pass	
2.4.5-TP			%	115			70-130	Pass	
Actril (loxynil)			%	95			70-130	Pass	
Dicamba			%	120			70-130	Pass	
Dichlorprop			%	129			70-130	Pass	
Dinitro-o-cresol			%	113			70-130	Pass	
Dinoseb			%	78			70-130	Pass	
MCPA			%	119			70-130	Pass	
MCPB			%	95			70-130	Pass	
Mecoprop			%	121			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	97			80-120	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions									
TRH C6-C9			%	78			70-130	Pass	
LCS - % Recovery									
BTEX									
Benzene			%	86			70-130	Pass	
Toluene			%	90			70-130	Pass	
Ethylbenzene			%	97			70-130	Pass	
m&p-Xylenes			%	98			70-130	Pass	
Xylenes - Total*			%	100			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons									
TRH C6-C10			%	77			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Carbamate Pesticides				Result 1					
Aldicarb	B24-Ja0034466	CP	%	120			70-130	Pass	
Bendiocarb	B24-Ja0034466	CP	%	98			70-130	Pass	
Carbaryl	B24-Ja0034466	CP	%	100			70-130	Pass	
Carbofuran	B24-Ja0034466	CP	%	98			70-130	Pass	
Methomyl	B24-Ja0034466	CP	%	93			70-130	Pass	
Oxamyl	B24-Ja0034466	CP	%	84			70-130	Pass	
Thiobencarb	B24-Ja0034466	CP	%	108			70-130	Pass	
Spike - % Recovery									
Synthetic Pyrethroids*				Result 1					
Cyfluthrin*	B24-Ja0034466	CP	%	126			70-130	Pass	
Cypermethrin (total)*	B24-Ja0034466	CP	%	87			70-130	Pass	
Resmethrin*	B24-Ja0034466	CP	%	71			70-130	Pass	
Tetramethrin*	B24-Ja0034466	CP	%	71			70-130	Pass	
Spike - % Recovery									
Acid Herbicides				Result 1					
2.4-D	B24-Ja0034467	CP	%	70			70-130	Pass	
Actril (loxynil)	B24-Ja0034467	CP	%	83			70-130	Pass	
Dichlorprop	B24-Ja0034467	CP	%	116			70-130	Pass	
MCPA	B24-Ja0034467	CP	%	88			70-130	Pass	
MCPB	B24-Ja0034467	CP	%	124			70-130	Pass	
Spike - % Recovery									
Synthetic Pyrethroids*				Result 1					
Cyfluthrin*	B24-Ja0034477	CP	%	121			70-130	Pass	
Resmethrin*	B24-Ja0034477	CP	%	98			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Tetramethrin*	B24-Ja0034477	CP	%	76			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	B24-Ja0034482	CP	%	75			70-130	Pass	
Dimethoate	B24-Ja0034482	CP	%	107			70-130	Pass	
Ethion	B24-Ja0034482	CP	%	86			70-130	Pass	
Fenitrothion	B24-Ja0034482	CP	%	104			70-130	Pass	
Methyl parathion	B24-Ja0034482	CP	%	77			70-130	Pass	
Mevinphos	B24-Ja0034482	CP	%	124			70-130	Pass	
Spike - % Recovery									
Carbamate Pesticides				Result 1					
Aldicarb	B24-Ja0034483	CP	%	107			70-130	Pass	
Bendiocarb	B24-Ja0034483	CP	%	91			70-130	Pass	
Carbaryl	B24-Ja0034483	CP	%	93			70-130	Pass	
Carbofuran	B24-Ja0034483	CP	%	91			70-130	Pass	
Methomyl	B24-Ja0034483	CP	%	88			70-130	Pass	
Oxamyl	B24-Ja0034483	CP	%	85			70-130	Pass	
Thiobencarb	B24-Ja0034483	CP	%	100			70-130	Pass	
Spike - % Recovery									
Acid Herbicides				Result 1					
Actril (loxylinil)	B24-Ja0034493	CP	%	95			70-130	Pass	
Dichlorprop	B24-Ja0034493	CP	%	76			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B24-Ja0034495	CP	%	100			70-130	Pass	
4,4'-DDD	B24-Ja0034495	CP	%	102			70-130	Pass	
4,4'-DDE	B24-Ja0034495	CP	%	93			70-130	Pass	
4,4'-DDT	B24-Ja0034495	CP	%	84			70-130	Pass	
a-HCH	B24-Ja0034495	CP	%	104			70-130	Pass	
Aldrin	B24-Ja0034495	CP	%	79			70-130	Pass	
b-HCH	B24-Ja0034495	CP	%	105			70-130	Pass	
d-HCH	B24-Ja0034495	CP	%	115			70-130	Pass	
Dieldrin	B24-Ja0034495	CP	%	109			70-130	Pass	
Endosulfan I	B24-Ja0034495	CP	%	127			70-130	Pass	
Endosulfan II	B24-Ja0034495	CP	%	127			70-130	Pass	
Endosulfan sulphate	B24-Ja0034495	CP	%	120			70-130	Pass	
Endrin	B24-Ja0034495	CP	%	119			70-130	Pass	
Endrin aldehyde	B24-Ja0034495	CP	%	111			70-130	Pass	
Endrin ketone	B24-Ja0034495	CP	%	108			70-130	Pass	
g-HCH (Lindane)	B24-Ja0034495	CP	%	108			70-130	Pass	
Heptachlor	B24-Ja0034495	CP	%	123			70-130	Pass	
Heptachlor epoxide	B24-Ja0034495	CP	%	98			70-130	Pass	
Hexachlorobenzene	B24-Ja0034495	CP	%	118			70-130	Pass	
Methoxychlor	B24-Ja0034495	CP	%	122			70-130	Pass	
Spike - % Recovery									
Synthetic Pyrethroids*				Result 1					
Cyfluthrin*	B24-Ja0034503	CP	%	97			70-130	Pass	
Cypermethrin (total)*	B24-Ja0034503	CP	%	74			70-130	Pass	
Permethrin	B24-Ja0034503	CP	%	95			70-130	Pass	
Tetramethrin*	B24-Ja0034503	CP	%	110			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B24-Ja0034503	CP	%	81			75-125	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B24-Ja0034517	CP	%	90			70-130	Pass	
4,4'-DDD	B24-Ja0034517	CP	%	102			70-130	Pass	
4,4'-DDE	B24-Ja0034517	CP	%	100			70-130	Pass	
4,4'-DDT	B24-Ja0034517	CP	%	125			70-130	Pass	
a-HCH	B24-Ja0034517	CP	%	84			70-130	Pass	
Aldrin	B24-Ja0034517	CP	%	92			70-130	Pass	
b-HCH	B24-Ja0034517	CP	%	84			70-130	Pass	
d-HCH	B24-Ja0034517	CP	%	97			70-130	Pass	
Dieldrin	B24-Ja0034517	CP	%	82			70-130	Pass	
Endosulfan I	B24-Ja0034517	CP	%	101			70-130	Pass	
Endosulfan II	B24-Ja0034517	CP	%	106			70-130	Pass	
Endosulfan sulphate	B24-Ja0034517	CP	%	85			70-130	Pass	
Endrin	B24-Ja0034517	CP	%	113			70-130	Pass	
Endrin aldehyde	B24-Ja0034517	CP	%	101			70-130	Pass	
Endrin ketone	B24-Ja0034517	CP	%	128			70-130	Pass	
g-HCH (Lindane)	B24-Ja0034517	CP	%	84			70-130	Pass	
Heptachlor	B24-Ja0034517	CP	%	100			70-130	Pass	
Heptachlor epoxide	B24-Ja0034517	CP	%	93			70-130	Pass	
Hexachlorobenzene	B24-Ja0034517	CP	%	89			70-130	Pass	
Methoxychlor	B24-Ja0034517	CP	%	114			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	B24-Ja0033973	NCP	%	52			70-130	Fail	Q08
Spike - % Recovery									
BTEX				Result 1					
Benzene	B24-Ja0033973	NCP	%	74			70-130	Pass	
Toluene	B24-Ja0033973	NCP	%	78			70-130	Pass	
Ethylbenzene	B24-Ja0033973	NCP	%	83			70-130	Pass	
m&p-Xylenes	B24-Ja0033973	NCP	%	85			70-130	Pass	
o-Xylene	B24-Ja0033973	NCP	%	91			70-130	Pass	
Xylenes - Total*	B24-Ja0033973	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C10	B24-Ja0033973	NCP	%	44			70-130	Fail	Q08
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Carbamate Pesticides				Result 1	Result 2	RPD			
Aldicarb	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Bendiocarb	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Carbaryl	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Carbofuran	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Methomyl	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Oxamyl	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Thiobencarb	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Duplicate									
Synthetic Pyrethroids*				Result 1	Result 2	RPD			
Allethrin*	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cyfluthrin*	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cypermethrin (total)*	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Fenvalerate*	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Permethrin	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phenothrin*	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Resmethrin*	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tetramethrin*	B24-Ja0034465	CP	mg/kg	< 2	< 2	<1	30%	Pass	

Duplicate								
Acid Herbicides				Result 1	Result 2	RPD		
2.4-D	B24-Ja0034465	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4-DB	B24-Ja0034465	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-T	B24-Ja0034465	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-TP	B24-Ja0034465	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Actril (loxynil)	B24-Ja0034465	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dicamba	B24-Ja0034465	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorprop	B24-Ja0034465	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dinitro-o-cresol	B24-Ja0034465	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dinoseb	B24-Ja0034465	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPA	B24-Ja0034465	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPB	B24-Ja0034465	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Mecoprop	B24-Ja0034465	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Acid Herbicides				Result 1	Result 2	RPD		
2.4-D	B24-Ja0034466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4-DB	B24-Ja0034466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-T	B24-Ja0034466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-TP	B24-Ja0034466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Actril (loxynil)	B24-Ja0034466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dicamba	B24-Ja0034466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorprop	B24-Ja0034466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dinitro-o-cresol	B24-Ja0034466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dinoseb	B24-Ja0034466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPA	B24-Ja0034466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPB	B24-Ja0034466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Mecoprop	B24-Ja0034466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Carbamate Pesticides				Result 1	Result 2	RPD		
Aldicarb	B24-Ja0034467	CP	mg/kg	< 2	< 2	<1	30%	Pass
Bendiocarb	B24-Ja0034467	CP	mg/kg	< 2	< 2	<1	30%	Pass
Carbaryl	B24-Ja0034467	CP	mg/kg	< 2	< 2	<1	30%	Pass
Carbofuran	B24-Ja0034467	CP	mg/kg	< 2	< 2	<1	30%	Pass
Methomyl	B24-Ja0034467	CP	mg/kg	< 2	< 2	<1	30%	Pass
Oxamyl	B24-Ja0034467	CP	mg/kg	< 2	< 2	<1	30%	Pass
Thiobencarb	B24-Ja0034467	CP	mg/kg	< 2	< 2	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B24-Ja0034469	CP	%	30	31	2.2	30%	Pass
Duplicate								
Synthetic Pyrethroids*				Result 1	Result 2	RPD		
Allethrin*	B24-Ja0034476	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cyfluthrin*	B24-Ja0034476	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cypermethrin (total)*	B24-Ja0034476	CP	mg/kg	< 2	< 2	<1	30%	Pass
Fenvalerate*	B24-Ja0034476	CP	mg/kg	< 2	< 2	<1	30%	Pass
Permethrin	B24-Ja0034476	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phenothrin*	B24-Ja0034476	CP	mg/kg	< 2	< 2	<1	30%	Pass
Resmethrin*	B24-Ja0034476	CP	mg/kg	< 2	< 2	<1	30%	Pass
Tetramethrin*	B24-Ja0034476	CP	mg/kg	< 2	< 2	<1	30%	Pass
Duplicate								
Carbamate Pesticides				Result 1	Result 2	RPD		
Aldicarb	B24-Ja0034477	CP	mg/kg	< 2	< 2	<1	30%	Pass
Bendiocarb	B24-Ja0034477	CP	mg/kg	< 2	< 2	<1	30%	Pass
Carbaryl	B24-Ja0034477	CP	mg/kg	< 2	< 2	<1	30%	Pass
Carbofuran	B24-Ja0034477	CP	mg/kg	< 2	< 2	<1	30%	Pass

Duplicate								
Carbamate Pesticides				Result 1	Result 2	RPD		
Methomyl	B24-Ja0034477	CP	mg/kg	< 2	< 2	<1	30%	Pass
Oxamyl	B24-Ja0034477	CP	mg/kg	< 2	< 2	<1	30%	Pass
Thiobencarb	B24-Ja0034477	CP	mg/kg	< 2	< 2	<1	30%	Pass
Duplicate								
Acid Herbicides				Result 1	Result 2	RPD		
2.4-D	B24-Ja0034477	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4-DB	B24-Ja0034477	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-T	B24-Ja0034477	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-TP	B24-Ja0034477	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Actril (loxynil)	B24-Ja0034477	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dicamba	B24-Ja0034477	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorprop	B24-Ja0034477	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dinitro-o-cresol	B24-Ja0034477	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dinoseb	B24-Ja0034477	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPA	B24-Ja0034477	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPB	B24-Ja0034477	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Mecoprop	B24-Ja0034477	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B24-Ja0034480	CP	%	25	25	2.0	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	B24-Ja0034481	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	B24-Ja0034481	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	B24-Ja0034481	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Azinphos-methyl	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorfenvinphos	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	B24-Ja0034481	CP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Dichlorvos	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethoprop	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfothion	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Malathion	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	B24-Ja0034481	CP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	B24-Ja0034481	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	B24-Ja0034481	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Carbamate Pesticides				Result 1	Result 2	RPD		
Aldicarb	B24-Ja0034482	CP	mg/kg	< 2	< 2	<1	30%	Pass
Bendiocarb	B24-Ja0034482	CP	mg/kg	< 2	< 2	<1	30%	Pass
Carbaryl	B24-Ja0034482	CP	mg/kg	< 2	< 2	<1	30%	Pass
Carbofuran	B24-Ja0034482	CP	mg/kg	< 2	< 2	<1	30%	Pass
Methomyl	B24-Ja0034482	CP	mg/kg	< 2	< 2	<1	30%	Pass
Oxamyl	B24-Ja0034482	CP	mg/kg	< 2	< 2	<1	30%	Pass
Thiobencarb	B24-Ja0034482	CP	mg/kg	< 2	< 2	<1	30%	Pass
Duplicate								
Carbamate Pesticides				Result 1	Result 2	RPD		
Aldicarb	B24-Ja0034484	CP	mg/kg	< 2	< 2	<1	30%	Pass
Bendiocarb	B24-Ja0034484	CP	mg/kg	< 2	< 2	<1	30%	Pass
Carbaryl	B24-Ja0034484	CP	mg/kg	< 2	< 2	<1	30%	Pass
Carbofuran	B24-Ja0034484	CP	mg/kg	< 2	< 2	<1	30%	Pass
Methomyl	B24-Ja0034484	CP	mg/kg	< 2	< 2	<1	30%	Pass
Oxamyl	B24-Ja0034484	CP	mg/kg	< 2	< 2	<1	30%	Pass
Thiobencarb	B24-Ja0034484	CP	mg/kg	< 2	< 2	<1	30%	Pass
Duplicate								
Synthetic Pyrethroids*				Result 1	Result 2	RPD		
Allethrin*	B24-Ja0034486	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cyfluthrin*	B24-Ja0034486	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cypermethrin (total)*	B24-Ja0034486	CP	mg/kg	< 2	< 2	<1	30%	Pass
Fenvalerate*	B24-Ja0034486	CP	mg/kg	< 2	< 2	<1	30%	Pass
Permethrin	B24-Ja0034486	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phenothrin*	B24-Ja0034486	CP	mg/kg	< 2	< 2	<1	30%	Pass
Resmethrin*	B24-Ja0034486	CP	mg/kg	< 2	< 2	<1	30%	Pass
Tetramethrin*	B24-Ja0034486	CP	mg/kg	< 2	< 2	<1	30%	Pass

Duplicate								
Synthetic Pyrethroids*				Result 1	Result 2	RPD		
Allethrin*	B24-Ja0034489	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cyfluthrin*	B24-Ja0034489	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cypermethrin (total)*	B24-Ja0034489	CP	mg/kg	< 2	< 2	<1	30%	Pass
Fenvalerate*	B24-Ja0034489	CP	mg/kg	< 2	< 2	<1	30%	Pass
Permethrin	B24-Ja0034489	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phenothrin*	B24-Ja0034489	CP	mg/kg	< 2	< 2	<1	30%	Pass
Resmethrin*	B24-Ja0034489	CP	mg/kg	< 2	< 2	<1	30%	Pass
Tetramethrin*	B24-Ja0034489	CP	mg/kg	< 2	< 2	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B24-Ja0034490	CP	%	22	27	19	30%	Pass
Duplicate								
Acid Herbicides				Result 1	Result 2	RPD		
2.4-D	B24-Ja0034492	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4-DB	B24-Ja0034492	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-T	B24-Ja0034492	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-TP	B24-Ja0034492	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Actril (loxynil)	B24-Ja0034492	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dicamba	B24-Ja0034492	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorprop	B24-Ja0034492	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dinitro-o-cresol	B24-Ja0034492	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dinoseb	B24-Ja0034492	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPA	B24-Ja0034492	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPB	B24-Ja0034492	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Mecoprop	B24-Ja0034492	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Acid Herbicides				Result 1	Result 2	RPD		
2.4-D	B24-Ja0034494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4-DB	B24-Ja0034494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-T	B24-Ja0034494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-TP	B24-Ja0034494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Actril (loxynil)	B24-Ja0034494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dicamba	B24-Ja0034494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorprop	B24-Ja0034494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dinitro-o-cresol	B24-Ja0034494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dinoseb	B24-Ja0034494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPA	B24-Ja0034494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPB	B24-Ja0034494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Mecoprop	B24-Ja0034494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B24-Ja0034500	CP	%	19	20	6.2	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B24-Ja0034502	CP	mg/kg	8.7	9.9	13	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B24-Ja0034503	CP	mg/kg	3.4	4.0	16	30%	Pass
Duplicate								
Synthetic Pyrethroids*				Result 1	Result 2	RPD		
Allethrin*	B24-Ja0034505	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cyfluthrin*	B24-Ja0034505	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cypermethrin (total)*	B24-Ja0034505	CP	mg/kg	< 2	< 2	<1	30%	Pass
Fenvalerate*	B24-Ja0034505	CP	mg/kg	< 2	< 2	<1	30%	Pass

Duplicate								
Synthetic Pyrethroids*				Result 1	Result 2	RPD		
Permethrin	B24-Ja0034505	CP	mg/kg	< 2	< 2	<1	30%	Pass
Phenothrin*	B24-Ja0034505	CP	mg/kg	< 2	< 2	<1	30%	Pass
Resmethrin*	B24-Ja0034505	CP	mg/kg	< 2	< 2	<1	30%	Pass
Tetramethrin*	B24-Ja0034505	CP	mg/kg	< 2	< 2	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B24-Ja0034510	CP	%	34	36	5.5	30%	Pass
Duplicate								
Acid Herbicides				Result 1	Result 2	RPD		
2,4-D	B24-Ja0034511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-DB	B24-Ja0034511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-T	B24-Ja0034511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-TP	B24-Ja0034511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Actril (loxynil)	B24-Ja0034511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dicamba	B24-Ja0034511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorprop	B24-Ja0034511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dinitro-o-cresol	B24-Ja0034511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dinoseb	B24-Ja0034511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPA	B24-Ja0034511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
MCPB	B24-Ja0034511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Mecoprop	B24-Ja0034511	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Naphthalene	B24-Ja0033974	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	B24-Ja0033974	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	B24-Ja0033974	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	B24-Ja0033974	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	B24-Ja0033974	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	B24-Ja0033974	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	B24-Ja0033974	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	B24-Ja0033974	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C10	B24-Ja0033974	NCP	mg/kg	< 20	< 20	<1	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
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.
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:

Zoe Flynn	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Volatile
Joseph Edouard	Senior Analyst-Organic
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties



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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Douglas Partners Pty Ltd
439 Montague Road
West End
QLD 4101



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Rob Muller**

Report **1061899-W**

Project name [219361.02](#)

Project ID [219361.02](#)

Received Date Jan 19, 2024

Client Sample ID			TRIP SPIKE	TRIP SPIKE
Sample Matrix			Trip Spike	Trip Spike
Eurofins Sample No.			(liquid)	(liquid)
Date Sampled			B24-Ja0034518	B24-Ja0034521
Test/Reference	LOR	Unit	Jan 15, 2024	Jan 17, 2024
Naphthalene	1	%	110	100
TRH C6-C10	1	%	64	68
TRH C6-C9	1	%	62	64
BTEX				
Benzene	1	%	95	100
Ethylbenzene	1	%	87	92
m&p-Xylenes	1	%	100	110
o-Xylene	1	%	79	84
Toluene	1	%	80	83
Xylenes - Total	1	%	87	91
4-Bromofluorobenzene (surr.)	1	%	119	113

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
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Melbourne 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	Sydney 179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	Brisbane 1/21 Smallwood Place Murarie QLD 4172 T: +61 7 3902 4600 NATA# 1261 Site# 20794	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289	Perth 46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 +64 9 526 4551 IANZ# 1327	Auckland (Asb) Unit C1/4 Pacific Rise, Mount Wellington, Auckland 1061 +64 9 525 0568 IANZ# 1308	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 +64 3 343 5201 IANZ# 1290	Tauranga 1277 Cameron Road, Gate Pa, Tauranga 3112 +64 9 525 0568 IANZ# 1402
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Company Name:	Douglas Partners (Qld) Pty Ltd	Order No.:		Received:	Jan 19, 2024 4:20 PM
Address:	439 Montague Road West End QLD 4101	Report #:	1061899	Due:	Jan 29, 2024
		Phone:	07 3237 8900	Priority:	5 Day
		Fax:	07 3237 8999	Contact Name:	Rob Muller
Project Name:	219361.02				
Project ID:	219361.02				

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
External Laboratory														
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID									
1	101/0.1	Jan 15, 2024		Soil	B24-Ja0034463	X		X	X	X	X	X		
2	101/0.2	Jan 15, 2024		Soil	B24-Ja0034464	X		X	X	X	X	X		
3	102/0.1	Jan 17, 2024		Soil	B24-Ja0034465	X		X	X	X	X	X		
4	102/0.2	Jan 17, 2024		Soil	B24-Ja0034466	X		X	X	X	X	X		
5	103/0.1	Jan 17, 2024		Soil	B24-Ja0034467	X		X	X	X	X	X		
6	103/0.2	Jan 17, 2024		Soil	B24-Ja0034468	X		X	X	X	X	X		
7	104/0.1	Jan 17, 2024		Soil	B24-Ja0034469	X		X	X	X	X	X		
8	104/0.2	Jan 17, 2024		Soil	B24-Ja0034470	X		X	X	X	X	X		
9	105/0.1	Jan 17, 2024		Soil	B24-Ja0034471	X		X	X	X	X	X		
10	105/0.2	Jan 17, 2024		Soil	B24-Ja0034472	X		X	X	X	X	X		
11	106/0.1	Jan 17, 2024		Soil	B24-Ja0034473	X		X	X	X	X	X		
12	106/0.3	Jan 17, 2024		Soil	B24-Ja0034474	X		X	X	X	X	X		



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QLD 4101

Project Name: 219361.02
Project ID: 219361.02

Order No.:
Report #: 1061899
Phone: 07 3237 8900
Fax: 07 3237 8999

Received: Jan 19, 2024 4:20 PM
Due: Jan 29, 2024
Priority: 5 Day
Contact Name: Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
13	107/0.1	Jan 17, 2024		Soil	B24-Ja0034475	X		X	X	X	X	X		
14	107/0.2	Jan 17, 2024		Soil	B24-Ja0034476	X		X	X	X	X	X		
15	108/0.1	Jan 17, 2024		Soil	B24-Ja0034477	X		X	X	X	X	X		
16	108/0.2	Jan 17, 2024		Soil	B24-Ja0034478	X		X	X	X	X	X		
17	109/0.1	Jan 17, 2024		Soil	B24-Ja0034479	X		X	X	X	X	X		
18	109/0.2	Jan 17, 2024		Soil	B24-Ja0034480	X		X	X	X	X	X		
19	110/0.1	Jan 18, 2024		Soil	B24-Ja0034481	X		X	X	X	X	X		
20	111/0.1	Jan 18, 2024		Soil	B24-Ja0034482	X		X	X	X	X	X		
21	112/0.1	Jan 18, 2024		Soil	B24-Ja0034483	X		X	X	X	X	X		
22	113/0.1	Jan 18, 2024		Soil	B24-Ja0034484	X		X	X	X	X	X		
23	113/0.2	Jan 18, 2024		Soil	B24-Ja0034485	X		X	X	X	X	X		
24	114/0.1	Jan 18, 2024		Soil	B24-Ja0034486	X		X	X	X	X	X		
25	114/0.2	Jan 18, 2024		Soil	B24-Ja0034487	X		X	X	X	X	X		
26	115/0.1	Jan 18, 2024		Soil	B24-Ja0034488	X		X	X	X	X	X		
27	115/0.2	Jan 18, 2024		Soil	B24-Ja0034489	X		X	X	X	X	X		



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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
28	116/0.1	Jan 18, 2024		Soil	B24-Ja0034490	X		X	X	X	X	X		
29	116/0.2	Jan 18, 2024		Soil	B24-Ja0034491	X		X	X	X	X	X		
30	117/0.1	Jan 18, 2024		Soil	B24-Ja0034492	X		X	X	X	X	X		
31	117/0.2	Jan 18, 2024		Soil	B24-Ja0034493	X		X	X	X	X	X		
32	118/0.1	Jan 18, 2024		Soil	B24-Ja0034494	X		X	X	X	X	X		
33	118/0.2	Jan 18, 2024		Soil	B24-Ja0034495	X		X	X	X	X	X		
34	119/0.1	Jan 18, 2024		Soil	B24-Ja0034496	X		X	X	X	X	X		
35	119/0.2	Jan 18, 2024		Soil	B24-Ja0034497	X		X	X	X	X	X		
36	120/0.1	Jan 18, 2024		Soil	B24-Ja0034498	X		X	X	X	X	X		
37	120/0.2	Jan 18, 2024		Soil	B24-Ja0034499	X		X	X	X	X	X		
38	121/0.1	Jan 18, 2024		Soil	B24-Ja0034500	X		X	X	X	X	X		
39	121/0.2	Jan 18, 2024		Soil	B24-Ja0034501	X		X	X	X	X	X		
40	122/0.1	Jan 18, 2024		Soil	B24-Ja0034502	X		X	X	X	X	X		
41	122/0.2	Jan 18, 2024		Soil	B24-Ja0034503	X		X	X	X	X	X		
42	123/0.1	Jan 18, 2024		Soil	B24-Ja0034504	X		X	X	X	X	X		



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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
43	123/0.2	Jan 18, 2024		Soil	B24-Ja0034505	X		X	X	X	X	X		
44	124/0.1	Jan 18, 2024		Soil	B24-Ja0034506	X		X	X	X	X	X		
45	124/0.2	Jan 18, 2024		Soil	B24-Ja0034507	X		X	X	X	X	X		
46	125/0.1	Jan 18, 2024		Soil	B24-Ja0034508	X		X	X	X	X	X		
47	125/0.2	Jan 18, 2024		Soil	B24-Ja0034509	X		X	X	X	X	X		
48	126/0.1	Jan 18, 2024		Soil	B24-Ja0034510	X		X	X	X	X	X		
49	126/0.2	Jan 18, 2024		Soil	B24-Ja0034511	X		X	X	X	X	X		
50	D1	Jan 18, 2024		Soil	B24-Ja0034512	X						X		
51	D2	Jan 18, 2024		Soil	B24-Ja0034513	X						X		
52	D7	Jan 18, 2024		Soil	B24-Ja0034514	X						X		
53	127/0.1	Jan 17, 2024		Soil	B24-Ja0034515	X		X	X	X	X	X		
54	128/0.1	Jan 17, 2024		Soil	B24-Ja0034516	X		X	X	X	X	X		
55	129/0.1	Jan 17, 2024		Soil	B24-Ja0034517	X		X	X	X	X	X		
56	TRIP SPIKE	Jan 15, 2024		Trip Spike (liquid)	B24-Ja0034518									X



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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
57	TRIP BLANK	Jan 15, 2024		Trip Blank (solid)	B24-Ja0034519								X	
58	TRIP BLANK	Jan 17, 2024		Trip Blank (solid)	B24-Ja0034520								X	
59	TRIP SPIKE	Jan 17, 2024		Trip Spike (liquid)	B24-Ja0034521									X
60	101/0.5	Jan 15, 2024		Soil	B24-Ja0034522		X							
61	101/1	Jan 15, 2024		Soil	B24-Ja0034523		X							
62	102/0.5	Jan 17, 2024		Soil	B24-Ja0034524		X							
63	102/1	Jan 17, 2024		Soil	B24-Ja0034525		X							
64	103/0.5	Jan 17, 2024		Soil	B24-Ja0034526		X							
65	103/1	Jan 17, 2024		Soil	B24-Ja0034527		X							
66	104/0.5	Jan 17, 2024		Soil	B24-Ja0034528		X							
67	104/1	Jan 17, 2024		Soil	B24-Ja0034529		X							
68	105/0.5	Jan 17, 2024		Soil	B24-Ja0034530		X							
69	105/1	Jan 17, 2024		Soil	B24-Ja0034531		X							



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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
70	106/0.5	Jan 17, 2024		Soil	B24-Ja0034532		X							
71	106/1	Jan 17, 2024		Soil	B24-Ja0034533		X							
72	107/0.5	Jan 17, 2024		Soil	B24-Ja0034534		X							
73	107/1	Jan 17, 2024		Soil	B24-Ja0034535		X							
74	108/0.5	Jan 17, 2024		Soil	B24-Ja0034536		X							
75	108/1	Jan 17, 2024		Soil	B24-Ja0034537		X							
76	109/0.5	Jan 17, 2024		Soil	B24-Ja0034538		X							
77	109/1	Jan 17, 2024		Soil	B24-Ja0034539		X							
78	110/0.2	Jan 18, 2024		Soil	B24-Ja0034540		X							
79	110/0.5	Jan 18, 2024		Soil	B24-Ja0034541		X							
80	110/1	Jan 18, 2024		Soil	B24-Ja0034542		X							
81	111/0.2	Jan 18, 2024		Soil	B24-Ja0034543		X							
82	111/0.5	Jan 18, 2024		Soil	B24-Ja0034544		X							
83	111/1	Jan 18, 2024		Soil	B24-Ja0034545		X							
84	112/0.2	Jan 18, 2024		Soil	B24-Ja0034546		X							



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Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
85	112/0.5	Jan 18, 2024		Soil	B24-Ja0034547		X							
86	112/1	Jan 18, 2024		Soil	B24-Ja0034548		X							
87	113/0.5	Jan 18, 2024		Soil	B24-Ja0034549		X							
88	113/1	Jan 18, 2024		Soil	B24-Ja0034550		X							
89	114/0.5	Jan 18, 2024		Soil	B24-Ja0034551		X							
90	114/1	Jan 18, 2024		Soil	B24-Ja0034552		X							
91	115/0.5	Jan 18, 2024		Soil	B24-Ja0034553		X							
92	115/1	Jan 18, 2024		Soil	B24-Ja0034554		X							
93	116/0.5	Jan 18, 2024		Soil	B24-Ja0034555		X							
94	116/1	Jan 18, 2024		Soil	B24-Ja0034556		X							
95	117/0.4	Jan 18, 2024		Soil	B24-Ja0034557		X							
96	118/0.4	Jan 18, 2024		Soil	B24-Ja0034558		X							
97	119/0.5	Jan 18, 2024		Soil	B24-Ja0034559		X							
98	119/1	Jan 18, 2024		Soil	B24-Ja0034560		X							
99	120/0.5	Jan 18, 2024		Soil	B24-Ja0034561		X							



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Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
100	120/1	Jan 18, 2024		Soil	B24-Ja0034562		X							
101	121/0.5	Jan 18, 2024		Soil	B24-Ja0034563		X							
102	121/1	Jan 18, 2024		Soil	B24-Ja0034564		X							
103	122/0.5	Jan 18, 2024		Soil	B24-Ja0034565		X							
104	122/1	Jan 18, 2024		Soil	B24-Ja0034566		X							
105	123/0.5	Jan 18, 2024		Soil	B24-Ja0034567		X							
106	123/1	Jan 18, 2024		Soil	B24-Ja0034568		X							
107	124/0.5	Jan 18, 2024		Soil	B24-Ja0034569		X							
108	124/1	Jan 18, 2024		Soil	B24-Ja0034570		X							
109	125/0.5	Jan 18, 2024		Soil	B24-Ja0034571		X							
110	126/0.5	Jan 18, 2024		Soil	B24-Ja0034573		X							
111	126/1	Jan 18, 2024		Soil	B24-Ja0034574		X							
112	D3	Jan 18, 2024		Soil	B24-Ja0034575		X							
113	D4	Jan 18, 2024		Soil	B24-Ja0034576		X							
114	D5	Jan 18, 2024		Soil	B24-Ja0034577		X							



web: www.eurofins.com.au
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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

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NZBN: 9429046024954

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Company Name:	Douglas Partners (Qld) Pty Ltd	Order No.:		Received:	Jan 19, 2024 4:20 PM
Address:	439 Montague Road West End QLD 4101	Report #:	1061899	Due:	Jan 29, 2024
		Phone:	07 3237 8900	Priority:	5 Day
		Fax:	07 3237 8999	Contact Name:	Rob Muller
Project Name:	219361.02				
Project ID:	219361.02				

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	Moisture Set	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X		X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X						X	X
115	D6	Jan 18, 2024		Soil	B24-Ja0034578		X							
116	D8	Jan 18, 2024		Soil	B24-Ja0034579		X							
Test Counts						55	57	52	52	52	52	55	2	2

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry weight basis unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
- For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
- Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ppm: parts per million
µg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit	Colour: Pt-Co Units	

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 70 – 130%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

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

Authorised by:

Zoe Flynn
Jonathon Angell

Analytical Services Manager
Senior Analyst-Volatile



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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☐ **Melbourne Laboratory**
6 Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

Submission of samples to the laboratory will be deemed as acceptance of Eurofins Ltd Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins Ltd Standard Terms and Conditions is available on request.

Eurofins Environment Testing Australia Pty Ltd

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 Murarrie 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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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Sample Receipt Advice

Company name:	Douglas Partners (Qld) Pty Ltd
Contact name:	Rob Muller
Project name:	219361.02
Project ID:	219361.02
Turnaround time:	5 Day
Date/Time received	Jan 23, 2024 4:00 PM
Eurofins reference	1062354

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ 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:

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Rob Muller - rob.muller@douglaspartners.com.au.

Note: A copy of these results will also be delivered to the general Douglas Partners (Qld) Pty Ltd email address.



web: www.eurofins.com.au
email: EnviroSales@eurofins.com

ABN: 50 005 085 521

Melbourne 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	Sydney 179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 T: +61 7 3902 4600 NATA# 1261 Site# 20794	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289
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ABN: 91 05 0159 898

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Auckland 35 O'Rorke Road Penrose, Auckland 1061 +64 9 526 4551 IANZ# 1327	Auckland (Asb) Unit C1/4 Pacific Rise, Mount Wellington, Auckland 1061 +64 9 525 0568 IANZ# 1308	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 +64 3 343 5201 IANZ# 1290	Tauranga 1277 Cameron Road, Gate Pa, Tauranga 3112 +64 9 525 0568 IANZ# 1402
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Company Name:	Douglas Partners (Qld) Pty Ltd	Order No.:	219361.02	Received:	Jan 23, 2024 4:00 PM
Address:	439 Montague Road West End QLD 4101	Report #:	1062354	Due:	Jan 31, 2024
		Phone:	07 3237 8900	Priority:	5 Day
		Fax:	07 3237 8999	Contact Name:	Rob Muller
Project Name:	219361.02				
Project ID:	219361.02				

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	Carbanate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794											X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	MW01	Jan 22, 2024		Water	B24-Ja0038035	X	X	X	X	X		
2	TRIP BLANK	Jan 22, 2024		Trip Blank (liquid)	B24-Ja0038036						X	
3	TRIP SPIKE	Jan 22, 2024		Trip Spike (liquid)	B24-Ja0038037							X
Test Counts						1	1	1	1	1	1	1

Douglas Partners Pty Ltd
439 Montague Road
West End
QLD 4101



NATA Accredited
Accreditation Number 1261
Site Number 1254

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: **Rob Muller**

Report **1062354-W**

Project name **219361.02**

Project ID **219361.02**

Received Date **Jan 23, 2024**

Client Sample ID			MW01	TRIP BLANK	R20 TRIP SPIKE
Sample Matrix			Water	Trip Blank (liquid)	Trip Spike (liquid)
Eurofins Sample No.			B24-Ja0038035	B24-Ja0038036	B24-Ja0038037
Date Sampled			Jan 22, 2024	Jan 22, 2024	Jan 22, 2024
Test/Reference	LOR	Unit			
Organochlorine Pesticides					
Chlordanes - Total	0.002	mg/L	< 0.002	-	-
4,4'-DDD	0.0002	mg/L	< 0.0002	-	-
4,4'-DDE	0.0002	mg/L	< 0.0002	-	-
4,4'-DDT	0.0002	mg/L	< 0.0002	-	-
a-HCH	0.0002	mg/L	< 0.0002	-	-
Aldrin	0.0002	mg/L	< 0.0002	-	-
b-HCH	0.0002	mg/L	< 0.0002	-	-
d-HCH	0.0002	mg/L	< 0.0002	-	-
Dieldrin	0.0002	mg/L	< 0.0002	-	-
Endosulfan I	0.0002	mg/L	< 0.0002	-	-
Endosulfan II	0.0002	mg/L	< 0.0002	-	-
Endosulfan sulphate	0.0002	mg/L	< 0.0002	-	-
Endrin	0.0002	mg/L	< 0.0002	-	-
Endrin aldehyde	0.0002	mg/L	< 0.0002	-	-
Endrin ketone	0.0002	mg/L	< 0.0002	-	-
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	-	-
Heptachlor	0.0002	mg/L	< 0.0002	-	-
Heptachlor epoxide	0.0002	mg/L	< 0.0002	-	-
Hexachlorobenzene	0.0002	mg/L	< 0.0002	-	-
Methoxychlor	0.0002	mg/L	< 0.0002	-	-
Toxaphene	0.005	mg/L	< 0.005	-	-
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	-	-
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	-	-
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	-	-
Dibutylchloroendate (surr.)	1	%	57	-	-
Tetrachloro-m-xylene (surr.)	1	%	96	-	-
Organophosphorus Pesticides					
Azinphos-methyl	0.002	mg/L	< 0.002	-	-
Bolstar	0.002	mg/L	< 0.002	-	-
Chlorfenvinphos	0.02	mg/L	< 0.02	-	-
Chlorpyrifos	0.002	mg/L	< 0.002	-	-
Chlorpyrifos-methyl	0.002	mg/L	< 0.002	-	-
Coumaphos	0.02	mg/L	< 0.02	-	-
Demeton-S	0.002	mg/L	< 0.002	-	-

Client Sample ID			MW01	TRIP BLANK	R20 TRIP SPIKE
Sample Matrix			Water	Trip Blank (liquid)	Trip Spike (liquid)
Eurofins Sample No.			B24-Ja0038035	B24-Ja0038036	B24-Ja0038037
Date Sampled			Jan 22, 2024	Jan 22, 2024	Jan 22, 2024
Test/Reference	LOR	Unit			
Organophosphorus Pesticides					
Demeton-O	0.002	mg/L	< 0.002	-	-
Diazinon	0.002	mg/L	< 0.002	-	-
Dichlorvos	0.002	mg/L	< 0.002	-	-
Dimethoate	0.002	mg/L	< 0.002	-	-
Disulfoton	0.002	mg/L	< 0.002	-	-
EPN	0.002	mg/L	< 0.002	-	-
Ethion	0.002	mg/L	< 0.002	-	-
Ethoprop	0.002	mg/L	< 0.002	-	-
Ethyl parathion	0.002	mg/L	< 0.002	-	-
Fenitrothion	0.002	mg/L	< 0.002	-	-
Fensulfothion	0.002	mg/L	< 0.002	-	-
Fenthion	0.002	mg/L	< 0.002	-	-
Malathion	0.002	mg/L	< 0.002	-	-
Merphos	0.002	mg/L	< 0.002	-	-
Methyl parathion	0.002	mg/L	< 0.002	-	-
Mevinphos	0.002	mg/L	< 0.002	-	-
Monocrotophos	0.002	mg/L	< 0.002	-	-
Naled	0.002	mg/L	< 0.002	-	-
Omethoate	0.02	mg/L	< 0.02	-	-
Phorate	0.002	mg/L	< 0.002	-	-
Pirimiphos-methyl	0.02	mg/L	< 0.02	-	-
Pyrazophos	0.002	mg/L	< 0.002	-	-
Ronnel	0.002	mg/L	< 0.002	-	-
Terbufos	0.002	mg/L	< 0.002	-	-
Tetrachlorvinphos	0.002	mg/L	< 0.002	-	-
Tokuthion	0.002	mg/L	< 0.002	-	-
Trichloronate	0.002	mg/L	< 0.002	-	-
Triphenylphosphate (surr.)	1	%	65	-	-
Carbamate Pesticides					
Aldicarb	0.01	mg/L	< 0.01	-	-
Bendiocarb	0.01	mg/L	< 0.01	-	-
Carbaryl	0.01	mg/L	< 0.01	-	-
Carbofuran	0.01	mg/L	< 0.01	-	-
Methomyl	0.01	mg/L	< 0.01	-	-
Oxamyl	0.01	mg/L	< 0.01	-	-
Thiobencarb	0.01	mg/L	< 0.01	-	-
Synthetic Pyrethroids*					
Allethrin*	0.2	mg/L	< 0.2	-	-
Cyfluthrin*	0.2	mg/L	< 0.2	-	-
Cypermethrin (total)*	0.2	mg/L	< 0.2	-	-
Fenvalerate*	0.2	mg/L	< 0.2	-	-
Permethrin	0.2	mg/L	< 0.2	-	-
Phenothrin*	0.2	mg/L	< 0.2	-	-
Resmethrin*	0.2	mg/L	< 0.2	-	-
Tetramethrin*	0.2	mg/L	< 0.2	-	-

Client Sample ID			MW01	TRIP BLANK	R20 TRIP SPIKE
Sample Matrix			Water	Trip Blank (liquid)	Trip Spike (liquid)
Eurofins Sample No.			B24-Ja0038035	B24-Ja0038036	B24-Ja0038037
Date Sampled			Jan 22, 2024	Jan 22, 2024	Jan 22, 2024
Test/Reference	LOR	Unit			
Acid Herbicides					
Comments			G01		
2,4-D	0.001	mg/L	< 0.01	-	-
2,4-DB	0.001	mg/L	< 0.01	-	-
2,4,5-T	0.001	mg/L	< 0.01	-	-
2,4,5-TP	0.001	mg/L	< 0.01	-	-
Actril (loxylin)	0.001	mg/L	< 0.01	-	-
Dicamba	0.001	mg/L	< 0.01	-	-
Dichlorprop	0.001	mg/L	< 0.01	-	-
Dinitro-o-cresol	0.001	mg/L	< 0.01	-	-
Dinoseb	0.001	mg/L	< 0.01	-	-
MCPA	0.001	mg/L	< 0.01	-	-
MCPB	0.001	mg/L	< 0.01	-	-
Mecoprop	0.001	mg/L	< 0.01	-	-
Warfarin (surr.)	0.001	%	99	-	-
Heavy Metals					
Arsenic	0.001	mg/L	0.16	-	-
Naphthalene ^{N02}	0.01	mg/L	-	< 0.01	-
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	-	< 0.02	-
Naphthalene	1	%	-	-	90
TRH C6-C10	1	%	-	-	56
TRH C6-C9	1	%	-	-	55
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	0.02	mg/L	-	< 0.02	-
BTEX					
Benzene	0.001	mg/L	-	< 0.001	-
Toluene	0.001	mg/L	-	< 0.001	-
Ethylbenzene	0.001	mg/L	-	< 0.001	-
m&p-Xylenes	0.002	mg/L	-	< 0.002	-
o-Xylene	0.001	mg/L	-	< 0.001	-
Xylenes - Total*	0.003	mg/L	-	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	-	96	-
Total Recoverable Hydrocarbons					
TRH C6-C10	0.02	mg/L	-	< 0.02	-
BTEX					
Benzene	1	%	-	-	93
Ethylbenzene	1	%	-	-	80
m&p-Xylenes	1	%	-	-	93
o-Xylene	1	%	-	-	73
Toluene	1	%	-	-	75
Xylenes - Total	1	%	-	-	80
4-Bromofluorobenzene (surr.)	1	%	-	-	112

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
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	Jan 29, 2024	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Jan 29, 2024	7 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
Carbamate Pesticides	Melbourne	Jan 29, 2024	7 Days
- Method: LTM-ORG-2290 Carbamates in waters and soils by HPLC			
Synthetic Pyrethroids*	Melbourne	Jan 29, 2024	7 Days
- Method: LTM-ORG-2170 Synthetic Pyrethroids by HPLC-UV			
Acid Herbicides	Melbourne	Jan 29, 2024	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
Heavy Metals	Melbourne	Jan 29, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Naphthalene	Brisbane	Jan 31, 2024	14 Days
- Method: USEPA 8260B - MGT 350A Volatile Organics by GCMS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Brisbane	Jan 31, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Brisbane	Jan 31, 2024	14 Days
- Method: USEPA SW846 8260			
Total Recoverable Hydrocarbons	Brisbane	Jan 31, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			



Melbourne 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	Sydney 179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	Brisbane 1/21 Smallwood Place Murarie QLD 4172 T: +61 7 3902 4600 NATA# 1261 Site# 20794	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289
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Perth 46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2377 Site# 2370

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

Address:

Project Name:

Project ID:

Douglas Partners (Qld) Pty Ltd

439 Montague Road

West End

QLD 4101

219361.02

219361.02

Order No.:

Report #:

Phone:

Fax:

219361.02

1062354

07 3237 8900

07 3237 8999

Received:

Due:

Priority:

Contact Name:

Jan 23, 2024 4:00 PM

Jan 31, 2024

5 Day

Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	Carbanate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	BTEXN and Volatile TRH	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X		
Brisbane Laboratory - NATA # 1261 Site # 20794											X	X
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	MW01	Jan 22, 2024		Water	B24-Ja0038035	X	X	X	X	X		
2	TRIP BLANK	Jan 22, 2024		Trip Blank (liquid)	B24-Ja0038036						X	
3	TRIP SPIKE	Jan 22, 2024		Trip Spike (liquid)	B24-Ja0038037							X
Test Counts						1	1	1	1	1	1	1

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry weight basis unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
- For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
- Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ppm: parts per million
µg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit	Colour: Pt-Co Units	

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 70 – 130%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4,4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4,4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4,4'-DDT	mg/L	< 0.0002			0.0002	Pass	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
g-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/L	< 0.002			0.002	Pass	
Bolstar	mg/L	< 0.002			0.002	Pass	
Chlorfenvinphos	mg/L	< 0.02			0.02	Pass	
Chlorpyrifos	mg/L	< 0.002			0.002	Pass	
Chlorpyrifos-methyl	mg/L	< 0.002			0.002	Pass	
Coumaphos	mg/L	< 0.02			0.02	Pass	
Demeton-S	mg/L	< 0.002			0.002	Pass	
Demeton-O	mg/L	< 0.002			0.002	Pass	
Diazinon	mg/L	< 0.002			0.002	Pass	
Dichlorvos	mg/L	< 0.002			0.002	Pass	
Dimethoate	mg/L	< 0.002			0.002	Pass	
Disulfoton	mg/L	< 0.002			0.002	Pass	
EPN	mg/L	< 0.002			0.002	Pass	
Ethion	mg/L	< 0.002			0.002	Pass	
Ethoprop	mg/L	< 0.002			0.002	Pass	
Ethyl parathion	mg/L	< 0.002			0.002	Pass	
Fenitrothion	mg/L	< 0.002			0.002	Pass	
Fensulfothion	mg/L	< 0.002			0.002	Pass	
Fenthion	mg/L	< 0.002			0.002	Pass	
Malathion	mg/L	< 0.002			0.002	Pass	
Merphos	mg/L	< 0.002			0.002	Pass	
Methyl parathion	mg/L	< 0.002			0.002	Pass	
Mevinphos	mg/L	< 0.002			0.002	Pass	
Monocrotophos	mg/L	< 0.002			0.002	Pass	
Naled	mg/L	< 0.002			0.002	Pass	
Omethoate	mg/L	< 0.02			0.02	Pass	
Phorate	mg/L	< 0.002			0.002	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pirimiphos-methyl	mg/L	< 0.02			0.02	Pass	
Pyrazophos	mg/L	< 0.002			0.002	Pass	
Ronnel	mg/L	< 0.002			0.002	Pass	
Terbufos	mg/L	< 0.002			0.002	Pass	
Tetrachlorvinphos	mg/L	< 0.002			0.002	Pass	
Tokuthion	mg/L	< 0.002			0.002	Pass	
Trichloronate	mg/L	< 0.002			0.002	Pass	
Method Blank							
Carbamate Pesticides							
Aldicarb	mg/L	< 0.01			0.01	Pass	
Bendiocarb	mg/L	< 0.01			0.01	Pass	
Carbaryl	mg/L	< 0.01			0.01	Pass	
Carbofuran	mg/L	< 0.01			0.01	Pass	
Methomyl	mg/L	< 0.01			0.01	Pass	
Oxamyl	mg/L	< 0.01			0.01	Pass	
Thiobencarb	mg/L	< 0.01			0.01	Pass	
Method Blank							
Acid Herbicides							
2,4-D	mg/L	< 0.001			0.001	Pass	
2,4-DB	mg/L	< 0.001			0.001	Pass	
2,4,5-T	mg/L	< 0.001			0.001	Pass	
2,4,5-TP	mg/L	< 0.001			0.001	Pass	
Actril (loxynil)	mg/L	< 0.001			0.001	Pass	
Dicamba	mg/L	< 0.001			0.001	Pass	
Dichlorprop	mg/L	< 0.001			0.001	Pass	
Dinitro-o-cresol	mg/L	< 0.001			0.001	Pass	
Dinoseb	mg/L	< 0.001			0.001	Pass	
MCPA	mg/L	< 0.001			0.001	Pass	
MCPB	mg/L	< 0.001			0.001	Pass	
Mecoprop	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Method Blank							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	87			70-130	Pass	
4,4'-DDD	%	98			70-130	Pass	
4,4'-DDE	%	72			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4,4'-DDT	%	107			70-130	Pass	
a-HCH	%	71			70-130	Pass	
Aldrin	%	93			70-130	Pass	
b-HCH	%	85			70-130	Pass	
d-HCH	%	74			70-130	Pass	
Dieldrin	%	82			70-130	Pass	
Endosulfan I	%	84			70-130	Pass	
Endosulfan II	%	106			70-130	Pass	
Endosulfan sulphate	%	84			70-130	Pass	
Endrin	%	84			70-130	Pass	
Endrin aldehyde	%	79			70-130	Pass	
Endrin ketone	%	90			70-130	Pass	
g-HCH (Lindane)	%	78			70-130	Pass	
Heptachlor	%	117			70-130	Pass	
Heptachlor epoxide	%	86			70-130	Pass	
Hexachlorobenzene	%	72			70-130	Pass	
Methoxychlor	%	125			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	119			70-130	Pass	
Dimethoate	%	101			70-130	Pass	
Ethion	%	77			70-130	Pass	
Fenitrothion	%	82			70-130	Pass	
Mevinphos	%	101			70-130	Pass	
LCS - % Recovery							
Carbamate Pesticides							
Aldicarb	%	88			70-130	Pass	
Bendiocarb	%	114			70-130	Pass	
Carbaryl	%	90			70-130	Pass	
Carbofuran	%	114			70-130	Pass	
Methomyl	%	79			70-130	Pass	
Oxamyl	%	93			70-130	Pass	
Thiobencarb	%	98			70-130	Pass	
LCS - % Recovery							
Acid Herbicides							
2,4-D	%	91			70-130	Pass	
2,4-DB	%	130			70-130	Pass	
2,4,5-T	%	107			70-130	Pass	
2,4,5-TP	%	105			70-130	Pass	
Actril (loxynil)	%	107			70-130	Pass	
Dicamba	%	128			70-130	Pass	
Dichlorprop	%	114			70-130	Pass	
Dinitro-o-cresol	%	112			70-130	Pass	
Dinoseb	%	128			70-130	Pass	
MCPA	%	104			70-130	Pass	
MCPB	%	128			70-130	Pass	
Mecoprop	%	112			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	97			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	99			70-130	Pass	
LCS - % Recovery							

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
BTEX										
Benzene				%	101			70-130	Pass	
Toluene				%	93			70-130	Pass	
Ethylbenzene				%	97			70-130	Pass	
m&p-Xylenes				%	97			70-130	Pass	
Xylenes - Total*				%	98			70-130	Pass	
LCS - % Recovery										
Total Recoverable Hydrocarbons										
TRH C6-C10				%	100			70-130	Pass	
Test	Lab Sample ID	QA Source		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Organochlorine Pesticides					Result 1					
Chlordanes - Total	M24-Fe0019569	NCP		%	79			70-130	Pass	
4,4'-DDD	M24-Fe0019569	NCP		%	81			70-130	Pass	
4,4'-DDE	M24-Fe0019569	NCP		%	78			70-130	Pass	
4,4'-DDT	M24-Fe0019569	NCP		%	96			70-130	Pass	
a-HCH	M24-Fe0019569	NCP		%	77			70-130	Pass	
Aldrin	M24-Fe0019569	NCP		%	73			70-130	Pass	
b-HCH	M24-Fe0019569	NCP		%	88			70-130	Pass	
d-HCH	M24-Fe0019569	NCP		%	78			70-130	Pass	
Dieldrin	M24-Fe0019569	NCP		%	76			70-130	Pass	
Endosulfan I	M24-Fe0019569	NCP		%	84			70-130	Pass	
Endosulfan II	M24-Fe0019569	NCP		%	87			70-130	Pass	
Endosulfan sulphate	M24-Fe0019569	NCP		%	70			70-130	Pass	
Endrin aldehyde	M24-Fe0019569	NCP		%	81			70-130	Pass	
Endrin ketone	M24-Fe0019569	NCP		%	93			70-130	Pass	
g-HCH (Lindane)	M24-Fe0019569	NCP		%	83			70-130	Pass	
Heptachlor	M24-Fe0019569	NCP		%	90			70-130	Pass	
Heptachlor epoxide	M24-Fe0019569	NCP		%	76			70-130	Pass	
Hexachlorobenzene	M24-Fe0019569	NCP		%	82			70-130	Pass	
Methoxychlor	M24-Fe0019569	NCP		%	85			70-130	Pass	
Spike - % Recovery										
Organophosphorus Pesticides					Result 1					
Diazinon	M24-Fe0019569	NCP		%	93			70-130	Pass	
Ethion	M24-Fe0019569	NCP		%	90			70-130	Pass	
Fenitrothion	M24-Fe0019569	NCP		%	100			70-130	Pass	
Methyl parathion	M24-Fe0019569	NCP		%	116			70-130	Pass	
Mevinphos	M24-Fe0019569	NCP		%	125			70-130	Pass	
Spike - % Recovery										
Heavy Metals					Result 1					
Arsenic	M24-Ja0041802	NCP		%	95			75-125	Pass	
Spike - % Recovery										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					Result 1					
TRH C6-C9	B24-Ja0045109	NCP		%	101			70-130	Pass	
Spike - % Recovery										
BTEX					Result 1					
Benzene	B24-Ja0045109	NCP		%	94			70-130	Pass	
Toluene	B24-Ja0045109	NCP		%	86			70-130	Pass	
Ethylbenzene	B24-Ja0045109	NCP		%	92			70-130	Pass	
m&p-Xylenes	B24-Ja0045109	NCP		%	94			70-130	Pass	
o-Xylene	B24-Ja0045109	NCP		%	94			70-130	Pass	
Xylenes - Total*	B24-Ja0045109	NCP		%	94			70-130	Pass	
Spike - % Recovery										
Total Recoverable Hydrocarbons					Result 1					
TRH C6-C10	B24-Ja0045109	NCP		%	101			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4.4'-DDD	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDE	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDT	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
a-HCH	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	M24-Fe0035772	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	M24-Fe0035772	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Bolstar	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Chlorfenvinphos	M24-Fe0035772	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Chlorpyrifos	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Chlorpyrifos-methyl	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Coumaphos	M24-Fe0035772	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Demeton-S	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Demeton-O	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Diazinon	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Dichlorvos	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Dimethoate	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Disulfoton	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
EPN	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Ethion	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Ethoprop	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Ethyl parathion	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Fenitrothion	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Fensulfothion	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Fenthion	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Malathion	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Merphos	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Methyl parathion	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Mevinphos	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Monocrotophos	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Naled	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Omethoate	M24-Fe0035772	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Phorate	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Pirimiphos-methyl	M24-Fe0035772	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Pyrazophos	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Ronnel	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Terbufos	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Tetrachlorvinphos	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Tokuthion	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Trichloronate	M24-Fe0035772	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M24-Ja0041802	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Naphthalene	B24-Ja0045106	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	B24-Ja0045106	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	B24-Ja0045106	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Toluene	B24-Ja0045106	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Ethylbenzene	B24-Ja0045106	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
m&p-Xylenes	B24-Ja0045106	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
o-Xylene	B24-Ja0045106	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Xylenes - Total*	B24-Ja0045106	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C10	B24-Ja0045106	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
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.
R20	This sample is a Trip Spike and therefore all results are reported as a percentage

Authorised by:

Paige Howarth	Analytical Services Manager
Caitlin Breeze	Senior Analyst-Metal
Edward Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Volatile
Joseph Edouard	Senior Analyst-Organic



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](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

CHAIN OF CUSTODY RECORD

Eurofins | mgt ABN 50 005 085 521

☐ **Sydney Laboratory**
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02 9900 8400 EnviroSampleNSW@eurofins.com

☒ **Brisbane Laboratory**
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☐ **Perth Laboratory**
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☐ **Melbourne Laboratory**
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03 8564 5000 EnviroSampleVic@eurofins.com

[illegible]

Eurofins Environment Testing Australia Pty Ltd

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 Murarrie 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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
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Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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35 O'Rourke 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

Sample Receipt Advice

Company name:	Douglas Partners (Qld) Pty Ltd
Contact name:	Rob Muller
Project name:	219361.02
Project ID:	219361.02
Turnaround time:	5 Day
Date/Time received	Jan 30, 2024 4:35 PM
Eurofins reference	1064142

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ 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:

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Rob Muller - rob.muller@douglaspartners.com.au.

Note: A copy of these results will also be delivered to the general Douglas Partners (Qld) Pty Ltd email address.



web: www.eurofins.com.au
email: EnviroSales@eurofins.com

ABN: 50 005 085 521

Melbourne 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	Sydney 179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	Brisbane 1/21 Smallwood Place Murarie QLD 4172 T: +61 7 3902 4600 NATA# 1261 Site# 20794	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289
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ABN: 91 05 0159 898

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NZBN: 9429046024954

Auckland 35 O'Rorke Road Penrose, Auckland 1061 +64 9 526 4551 IANZ# 1327	Auckland (Asb) Unit C1/4 Pacific Rise, Mount Wellington, Auckland 1061 +64 9 525 0568 IANZ# 1308	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 +64 3 343 5201 IANZ# 1290	Tauranga 1277 Cameron Road, Gate Pa, Tauranga 3112 +64 9 525 0568 IANZ# 1402
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Company Name:	Douglas Partners (Qld) Pty Ltd	Order No.:	219361.02	Received:	Jan 30, 2024 4:35 PM
Address:	439 Montague Road West End QLD 4101	Report #:	1064142	Due:	Feb 6, 2024
		Phone:	07 3237 8900	Priority:	5 Day
		Fax:	07 3237 8999	Contact Name:	Rob Muller
Project Name:	219361.02				
Project ID:	219361.02				

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	TRH C6-C10	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X					X
External Laboratory													
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
1	MW7	Jan 22, 2024		Water	B24-Ja0052089	X			X	X	X	X	
2	MW9	Jan 22, 2024		Water	B24-Ja0052090	X			X	X	X	X	
3	TRIP SPIKE	Jan 22, 2024		Trip Spike (liquid)	B24-Ja0052091								X
4	TRIP BLANK	Jan 22, 2024		Trip Blank (liquid)	B24-Ja0052092			X					
5	MWR1	Jan 22, 2024		Water	B24-Ja0052093		X						
Test Counts						2	1	1	2	2	2	2	1

Douglas Partners Pty Ltd
439 Montague Road
West End
QLD 4101



NATA Accredited
Accreditation Number 1261
Site Number 1254

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: **Rob Muller**

Report **1064142-W**
Project name **219361.02**
Project ID **219361.02**
Received Date **Jan 30, 2024**

Client Sample ID			MW7	MW9	TRIP SPIKE	TRIP BLANK
Sample Matrix			Water	Water	Trip Spike (liquid)	Trip Blank (liquid)
Eurofins Sample No.			B24-Ja0052089	B24-Ja0052090	B24-Ja0052091	B24-Ja0052092
Date Sampled			Jan 22, 2024	Jan 22, 2024	Jan 22, 2024	Jan 22, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	< 0.002	< 0.002	-	-
4,4'-DDD	0.0002	mg/L	< 0.0002	< 0.0002	-	-
4,4'-DDE	0.0002	mg/L	< 0.0002	< 0.0002	-	-
4,4'-DDT	0.0002	mg/L	< 0.0002	< 0.0002	-	-
a-HCH	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Aldrin	0.0002	mg/L	< 0.0002	< 0.0002	-	-
b-HCH	0.0002	mg/L	< 0.0002	< 0.0002	-	-
d-HCH	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Dieldrin	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Endosulfan I	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Endosulfan II	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Endosulfan sulphate	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Endrin	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Endrin aldehyde	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Endrin ketone	0.0002	mg/L	< 0.0002	< 0.0002	-	-
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Heptachlor	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Heptachlor epoxide	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Hexachlorobenzene	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Methoxychlor	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Toxaphene	0.005	mg/L	< 0.005	< 0.005	-	-
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	-	-
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	-	-
Dibutylchlorendate (surr.)	1	%	103	87	-	-
Tetrachloro-m-xylene (surr.)	1	%	110	95	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.002	mg/L	< 0.002	< 0.002	-	-
Bolstar	0.002	mg/L	< 0.002	< 0.002	-	-
Chlorfenvinphos	0.02	mg/L	< 0.02	< 0.02	-	-
Chlorpyrifos	0.002	mg/L	< 0.002	< 0.002	-	-
Chlorpyrifos-methyl	0.002	mg/L	< 0.002	< 0.002	-	-
Coumaphos	0.02	mg/L	< 0.02	< 0.02	-	-
Demeton-S	0.002	mg/L	< 0.002	< 0.002	-	-

Client Sample ID			MW7	MW9	TRIP SPIKE	TRIP BLANK
Sample Matrix			Water	Water	Trip Spike (liquid)	Trip Blank (liquid)
Eurofins Sample No.			B24-Ja0052089	B24-Ja0052090	B24-Ja0052091	B24-Ja0052092
Date Sampled			Jan 22, 2024	Jan 22, 2024	Jan 22, 2024	Jan 22, 2024
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Demeton-O	0.002	mg/L	< 0.002	< 0.002	-	-
Diazinon	0.002	mg/L	< 0.002	< 0.002	-	-
Dichlorvos	0.002	mg/L	< 0.002	< 0.002	-	-
Dimethoate	0.002	mg/L	< 0.002	< 0.002	-	-
Disulfoton	0.002	mg/L	< 0.002	< 0.002	-	-
EPN	0.002	mg/L	< 0.002	< 0.002	-	-
Ethion	0.002	mg/L	< 0.002	< 0.002	-	-
Ethoprop	0.002	mg/L	< 0.002	< 0.002	-	-
Ethyl parathion	0.002	mg/L	< 0.002	< 0.002	-	-
Fenitrothion	0.002	mg/L	< 0.002	< 0.002	-	-
Fensulfothion	0.002	mg/L	< 0.002	< 0.002	-	-
Fenthion	0.002	mg/L	< 0.002	< 0.002	-	-
Malathion	0.002	mg/L	< 0.002	< 0.002	-	-
Merphos	0.002	mg/L	< 0.002	< 0.002	-	-
Methyl parathion	0.002	mg/L	< 0.002	< 0.002	-	-
Mevinphos	0.002	mg/L	< 0.002	< 0.002	-	-
Monocrotophos	0.002	mg/L	< 0.002	< 0.002	-	-
Naled	0.002	mg/L	< 0.002	< 0.002	-	-
Omethoate	0.02	mg/L	< 0.02	< 0.02	-	-
Phorate	0.002	mg/L	< 0.002	< 0.002	-	-
Pirimiphos-methyl	0.02	mg/L	< 0.02	< 0.02	-	-
Pyrazophos	0.002	mg/L	< 0.002	< 0.002	-	-
Ronnel	0.002	mg/L	< 0.002	< 0.002	-	-
Terbufos	0.002	mg/L	< 0.002	< 0.002	-	-
Tetrachlorvinphos	0.002	mg/L	< 0.002	< 0.002	-	-
Tokuthion	0.002	mg/L	< 0.002	< 0.002	-	-
Trichloronate	0.002	mg/L	< 0.002	< 0.002	-	-
Triphenylphosphate (surr.)	1	%	62	55	-	-
Carbamate Pesticides						
Aldicarb	0.01	mg/L	< 0.01	< 0.01	-	-
Bendiocarb	0.01	mg/L	< 0.01	< 0.01	-	-
Carbaryl	0.01	mg/L	< 0.01	< 0.01	-	-
Carbofuran	0.01	mg/L	< 0.01	< 0.01	-	-
Methomyl	0.01	mg/L	< 0.01	< 0.01	-	-
Oxamyl	0.01	mg/L	< 0.01	< 0.01	-	-
Thiobencarb	0.01	mg/L	< 0.01	< 0.01	-	-
Synthetic Pyrethroids*						
Allethrin*	0.2	mg/L	< 0.2	< 0.2	-	-
Cyfluthrin*	0.2	mg/L	< 0.2	< 0.2	-	-
Cypermethrin (total)*	0.2	mg/L	< 0.2	< 0.2	-	-
Fenvalerate*	0.2	mg/L	< 0.2	< 0.2	-	-
Permethrin	0.2	mg/L	< 0.2	< 0.2	-	-
Phenothrin*	0.2	mg/L	< 0.2	< 0.2	-	-
Resmethrin*	0.2	mg/L	< 0.2	< 0.2	-	-
Tetramethrin*	0.2	mg/L	< 0.2	< 0.2	-	-

Client Sample ID			MW7	MW9	TRIP SPIKE	TRIP BLANK
Sample Matrix			Water	Water	Trip Spike (liquid)	Trip Blank (liquid)
Eurofins Sample No.			B24-Ja0052089	B24-Ja0052090	B24-Ja0052091	B24-Ja0052092
Date Sampled			Jan 22, 2024	Jan 22, 2024	Jan 22, 2024	Jan 22, 2024
Test/Reference	LOR	Unit				
Acid Herbicides						
2,4-D	0.001	mg/L	< 0.001	< 0.001	-	-
2,4-DB	0.001	mg/L	< 0.001	< 0.001	-	-
2,4,5-T	0.001	mg/L	< 0.001	< 0.001	-	-
2,4,5-TP	0.001	mg/L	< 0.001	< 0.001	-	-
Actril (loxynil)	0.001	mg/L	< 0.001	< 0.001	-	-
Dicamba	0.001	mg/L	< 0.001	< 0.001	-	-
Dichlorprop	0.001	mg/L	< 0.001	< 0.001	-	-
Dinitro-o-cresol	0.001	mg/L	< 0.001	< 0.001	-	-
Dinoseb	0.001	mg/L	< 0.001	< 0.001	-	-
MCPA	0.001	mg/L	< 0.001	< 0.001	-	-
MCPB	0.001	mg/L	< 0.001	< 0.001	-	-
Mecoprop	0.001	mg/L	< 0.001	< 0.001	-	-
Warfarin (surr.)	0.001	%	99	103	-	-
Heavy Metals						
Arsenic	0.001	mg/L	0.004	0.076	-	-
Naphthalene	1	%	-	-	88	-
TRH C6-C10	1	%	-	-	46	-
TRH C6-C9	1	%	-	-	51	-
BTEX						
Benzene	1	%	-	-	84	-
Ethylbenzene	1	%	-	-	83	-
m&p-Xylenes	1	%	-	-	86	-
o-Xylene	1	%	-	-	76	-
Toluene	1	%	-	-	83	-
Xylenes - Total	1	%	-	-	79	-
4-Bromofluorobenzene (surr.)	1	%	-	-	92	-
Total Recoverable Hydrocarbons						
TRH C6-C10	0.02	mg/L	-	-	-	< 0.02

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
Suite B14: OCP/OPP			
Organochlorine Pesticides	Melbourne	Feb 17, 2024	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Feb 17, 2024	7 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
Carbamate Pesticides	Melbourne	Feb 01, 2024	7 Days
- Method: LTM-ORG-2290 Carbamates in waters and soils by HPLC			
Synthetic Pyrethroids*	Melbourne	Feb 01, 2024	7 Days
- Method: LTM-ORG-2170 Synthetic Pyrethroids by HPLC-UV			
Acid Herbicides	Melbourne	Feb 01, 2024	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
Heavy Metals	Brisbane	Feb 04, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons	Brisbane	Feb 04, 2024	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			



web: www.eurofins.com.au
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ABN: 50 005 085 521

Melbourne 6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	Sydney 179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 T: +61 7 3902 4600 NATA# 1261 Site# 20794	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289
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ABN: 91 05 0159 898

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Company Name:

Address:

Project Name:

Project ID:

Douglas Partners (Qld) Pty Ltd

439 Montague Road

West End

QLD 4101

219361.02

219361.02

Order No.:

Report #:

Phone:

Fax:

219361.02

1064142

07 3237 8900

07 3237 8999

Received:

Due:

Priority:

Contact Name:

Jan 30, 2024 4:35 PM

Feb 6, 2024

5 Day

Rob Muller

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Arsenic	HOLD	TRH C6-C10	Carbamate Pesticides	Synthetic Pyrethroids*	Acid Herbicides	Suite B14: OCP/OPP	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254									X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X					X
External Laboratory													
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
1	MW7	Jan 22, 2024		Water	B24-Ja0052089	X			X	X	X	X	
2	MW9	Jan 22, 2024		Water	B24-Ja0052090	X			X	X	X	X	
3	TRIP SPIKE	Jan 22, 2024		Trip Spike (liquid)	B24-Ja0052091								X
4	TRIP BLANK	Jan 22, 2024		Trip Blank (liquid)	B24-Ja0052092			X					
5	MWR1	Jan 22, 2024		Water	B24-Ja0052093		X						
Test Counts						2	1	1	2	2	2	2	1

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry weight basis unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
- For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
- Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ppm: parts per million
µg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit	Colour: Pt-Co Units	

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 70 – 130%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4,4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4,4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4,4'-DDT	mg/L	< 0.0002			0.0002	Pass	
α-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
β-HCH	mg/L	< 0.0002			0.0002	Pass	
δ-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
γ-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/L	< 0.002			0.002	Pass	
Bolstar	mg/L	< 0.002			0.002	Pass	
Chlorfenvinphos	mg/L	< 0.02			0.02	Pass	
Chlorpyrifos	mg/L	< 0.002			0.002	Pass	
Chlorpyrifos-methyl	mg/L	< 0.002			0.002	Pass	
Coumaphos	mg/L	< 0.02			0.02	Pass	
Demeton-S	mg/L	< 0.002			0.002	Pass	
Demeton-O	mg/L	< 0.002			0.002	Pass	
Diazinon	mg/L	< 0.002			0.002	Pass	
Dichlorvos	mg/L	< 0.002			0.002	Pass	
Dimethoate	mg/L	< 0.002			0.002	Pass	
Disulfoton	mg/L	< 0.002			0.002	Pass	
EPN	mg/L	< 0.002			0.002	Pass	
Ethion	mg/L	< 0.002			0.002	Pass	
Ethoprop	mg/L	< 0.002			0.002	Pass	
Ethyl parathion	mg/L	< 0.002			0.002	Pass	
Fenitrothion	mg/L	< 0.002			0.002	Pass	
Fensulfothion	mg/L	< 0.002			0.002	Pass	
Fenthion	mg/L	< 0.002			0.002	Pass	
Malathion	mg/L	< 0.002			0.002	Pass	
Merphos	mg/L	< 0.002			0.002	Pass	
Methyl parathion	mg/L	< 0.002			0.002	Pass	
Mevinphos	mg/L	< 0.002			0.002	Pass	
Monocrotophos	mg/L	< 0.002			0.002	Pass	
Naled	mg/L	< 0.002			0.002	Pass	
Omethoate	mg/L	< 0.02			0.02	Pass	
Phorate	mg/L	< 0.002			0.002	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pirimiphos-methyl	mg/L	< 0.02			0.02	Pass	
Pyrazophos	mg/L	< 0.002			0.002	Pass	
Ronnel	mg/L	< 0.002			0.002	Pass	
Terbufos	mg/L	< 0.002			0.002	Pass	
Tetrachlorvinphos	mg/L	< 0.002			0.002	Pass	
Tokuthion	mg/L	< 0.002			0.002	Pass	
Trichloronate	mg/L	< 0.002			0.002	Pass	
Method Blank							
Carbamate Pesticides							
Aldicarb	mg/L	< 0.01			0.01	Pass	
Bendiocarb	mg/L	< 0.01			0.01	Pass	
Carbaryl	mg/L	< 0.01			0.01	Pass	
Carbofuran	mg/L	< 0.01			0.01	Pass	
Methomyl	mg/L	< 0.01			0.01	Pass	
Oxamyl	mg/L	< 0.01			0.01	Pass	
Thiobencarb	mg/L	< 0.01			0.01	Pass	
Method Blank							
Acid Herbicides							
2,4-D	mg/L	< 0.001			0.001	Pass	
2,4-DB	mg/L	< 0.001			0.001	Pass	
2,4,5-T	mg/L	< 0.001			0.001	Pass	
2,4,5-TP	mg/L	< 0.001			0.001	Pass	
Actril (loxynil)	mg/L	< 0.001			0.001	Pass	
Dicamba	mg/L	< 0.001			0.001	Pass	
Dichlorprop	mg/L	< 0.001			0.001	Pass	
Dinitro-o-cresol	mg/L	< 0.001			0.001	Pass	
Dinoseb	mg/L	< 0.001			0.001	Pass	
MCPA	mg/L	< 0.001			0.001	Pass	
MCPB	mg/L	< 0.001			0.001	Pass	
Mecoprop	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	77			70-130	Pass	
4,4'-DDD	%	85			70-130	Pass	
4,4'-DDE	%	77			70-130	Pass	
4,4'-DDT	%	86			70-130	Pass	
a-HCH	%	93			70-130	Pass	
Aldrin	%	81			70-130	Pass	
b-HCH	%	116			70-130	Pass	
d-HCH	%	95			70-130	Pass	
Dieldrin	%	76			70-130	Pass	
Endosulfan I	%	82			70-130	Pass	
Endosulfan II	%	110			70-130	Pass	
Endosulfan sulphate	%	91			70-130	Pass	
Endrin	%	129			70-130	Pass	
Endrin aldehyde	%	79			70-130	Pass	
Endrin ketone	%	88			70-130	Pass	
g-HCH (Lindane)	%	100			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor			%	77			70-130	Pass	
Heptachlor epoxide			%	84			70-130	Pass	
Hexachlorobenzene			%	96			70-130	Pass	
Methoxychlor			%	108			70-130	Pass	
LCS - % Recovery									
Organophosphorus Pesticides									
Diazinon			%	85			70-130	Pass	
Dimethoate			%	92			70-130	Pass	
Ethion			%	85			70-130	Pass	
Fenitrothion			%	94			70-130	Pass	
Mevinphos			%	114			70-130	Pass	
LCS - % Recovery									
Carbamate Pesticides									
Aldicarb			%	90			70-130	Pass	
Bendiocarb			%	98			70-130	Pass	
Carbaryl			%	89			70-130	Pass	
Carbofuran			%	98			70-130	Pass	
Methomyl			%	83			70-130	Pass	
Oxamyl			%	92			70-130	Pass	
Thiobencarb			%	102			70-130	Pass	
LCS - % Recovery									
Acid Herbicides									
2,4-D			%	91			70-130	Pass	
2,4-DB			%	87			70-130	Pass	
2,4,5-T			%	87			70-130	Pass	
2,4,5-TP			%	105			70-130	Pass	
Actril (loxynil)			%	77			70-130	Pass	
Dicamba			%	82			70-130	Pass	
Dichlorprop			%	102			70-130	Pass	
Dinitro-o-cresol			%	112			70-130	Pass	
Dinoseb			%	128			70-130	Pass	
MCPA			%	75			70-130	Pass	
MCPB			%	83			70-130	Pass	
Mecoprop			%	77			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	88			80-120	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons									
TRH C6-C10			%	86			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M24-Fe0019569	NCP	%	79			70-130	Pass	
4,4'-DDD	M24-Fe0019569	NCP	%	81			70-130	Pass	
4,4'-DDE	M24-Fe0019569	NCP	%	78			70-130	Pass	
4,4'-DDT	M24-Fe0019569	NCP	%	96			70-130	Pass	
a-HCH	M24-Fe0019569	NCP	%	77			70-130	Pass	
Aldrin	M24-Fe0019569	NCP	%	73			70-130	Pass	
b-HCH	M24-Fe0019569	NCP	%	88			70-130	Pass	
d-HCH	M24-Fe0019569	NCP	%	78			70-130	Pass	
Dieldrin	M24-Fe0019569	NCP	%	76			70-130	Pass	
Endosulfan I	M24-Fe0019569	NCP	%	84			70-130	Pass	
Endosulfan II	M24-Fe0019569	NCP	%	87			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	M24-Fe0019569	NCP	%	70			70-130	Pass	
Endrin aldehyde	M24-Fe0019569	NCP	%	81			70-130	Pass	
Endrin ketone	M24-Fe0019569	NCP	%	93			70-130	Pass	
g-HCH (Lindane)	M24-Fe0019569	NCP	%	83			70-130	Pass	
Heptachlor	M24-Fe0019569	NCP	%	90			70-130	Pass	
Heptachlor epoxide	M24-Fe0019569	NCP	%	76			70-130	Pass	
Hexachlorobenzene	M24-Fe0019569	NCP	%	82			70-130	Pass	
Methoxychlor	M24-Fe0019569	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	M24-Fe0019569	NCP	%	93			70-130	Pass	
Ethion	M24-Fe0019569	NCP	%	90			70-130	Pass	
Fenitrothion	M24-Fe0019569	NCP	%	100			70-130	Pass	
Methyl parathion	M24-Fe0019569	NCP	%	116			70-130	Pass	
Mevinphos	M24-Fe0019569	NCP	%	125			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	B24-Ja0050196	NCP	%	88			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C10	B24-Ja0049733	NCP	%	73			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4,4'-DDD	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4,4'-DDE	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4,4'-DDT	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
a-HCH	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan I	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	M24-Fe0032732	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	M24-Fe0032732	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Bolstar	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Chlorfenvinphos	M24-Fe0032732	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Chlorpyrifos	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Chlorpyrifos-methyl	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Coumaphos	M24-Fe0032732	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Demeton-S	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Demeton-O	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Diazinon	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Dichlorvos	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Dimethoate	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Disulfoton	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
EPN	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Ethion	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Ethoprop	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Ethyl parathion	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Fenitrothion	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Fensulfothion	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Fenthion	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Malathion	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Merphos	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Methyl parathion	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Mevinphos	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Monocrotophos	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Naled	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Omethoate	M24-Fe0032732	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Phorate	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Pirimiphos-methyl	M24-Fe0032732	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Pyrazophos	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Ronnel	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Terbufos	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Tetrachlorvinphos	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Tokuthion	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Trichloronate	M24-Fe0032732	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Duplicate								
Acid Herbicides				Result 1	Result 2	RPD		
2,4-D	M24-Fe0046338	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
2,4-DB	M24-Fe0046338	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
2,4,5-T	M24-Fe0046338	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
2,4,5-TP	M24-Fe0046338	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Actril (ioxynil)	M24-Fe0046338	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Dicamba	M24-Fe0046338	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Dichlorprop	M24-Fe0046338	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Dinitro-o-cresol	M24-Fe0046338	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Dinoseb	M24-Fe0046338	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
MCPA	M24-Fe0046338	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
MCPB	M24-Fe0046338	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Mecoprop	M24-Fe0046338	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	B24-Fe0024584	NCP	mg/L	0.003	0.003	2.4	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C10	B24-Ja0051454	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass

Comments

Sample Integrity

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

Authorised by:

Zoe Flynn	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Organic
Sarah McCallion	Senior Analyst-Volatile



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](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



CHAIN OF CUSTODY

ALS Laboratory: please tick →

1 Sydney 277 Windsor Rd, Northfield NSW 2178
Ph 02 8744 8555 E samples.sydney@alsenviro.com
2 Newcastle 5 Robinson Rd, Warabrook NSW 2304
Ph 02 4953 9413 E samples.newcastle@alsenviro.com

3 Brisbane 32 Slater St, Stafford QLD 4053
Ph 07 3243 7222 E samples.brisbane@alsenviro.com
4 Townsville 14-15 Dasma Ct, Bohle QLD 4818
Ph 07 4795 9030 E samples.townsville@alsenviro.com

5 Melbourne 2-4 Winsted Rd, Springvale VIC 3171
Ph 03 8549 5049 E samples.melbourne@alsenviro.com
6 Adelaide 2-1 Burma Rd, Pooraka SA 5095
Ph 08 8359 0590 E samples.adelaide@alsenviro.com

7 Perth 10 Lindt Way, Malaga
Ph 08 9259 7655 E samples.perth@alsenviro.com
8 Launceston 27 Wellington
Ph 03 6334 2150 E samples.launceston@alsenviro.com

Environmental Division
Brisbane

Work Order Reference

EB2401935



Telephone : + 61-7-3243 7222

CLIENT:	Douglas Partners Pty Ltd	TURNAROUND REQUIREMENTS :	☒ Standard TAT (List due date):	FOR LABORATORY
OFFICE:	439 Montague Road, West End Qld 4101	(Standard TAT may be longer for some tests e.g., Ultra Trace Organics)	☐ Non Standard or urgent TAT (List due date):	Custody Seal Intact?
PROJECT:	219361.02	ALS QUOTE NO.:	EN / 222 / 18	Free ice / frozen ice receipt?
ORDER NUMBER:				Random Sample Test
PROJECT MANAGER:	Rob Muller	CONTACT PH:	(07) 3237 8900	Other comment
SAMPLER:	Jesse Wotton	SAMPLER MOBILE:	0437 251 041	
COC emailed to ALS? (YES / NO)		EDD FORMAT (or default):		
Email Reports to (will default to PM if no other addresses are listed):	Rob.Muller@douglaspartners.com.au	RELINQUISHED BY:	J.Wotton	
Email Invoice to (will default to PM if no other addresses are listed):	brisbane@douglaspartners.com.au	DATE/TIME:	19/01/2024	
		RECEIVED BY:	ML	
		DATE/TIME:	19/01/24 1358	

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

ALS USE ONLY	SAMPLE DETAILS MATRIX: Solid(S) Water(W)			CONTAINER INFORMATION		ANALYSIS REQUIRED including SUITES (NB. Suite Codes must be listed to attract suite price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required)									Additional Information
LAB ID	SAMPLE ID	DATE / TIME	MATRIX	TYPE & PRESERVATIVE <i>(refer to codes below)</i>	TOTAL BOTTLES	Arsenic									Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
1	T1	15-Jan	S	Jar	1	X									
2	T2	17-Jan	S	Jar	1	X									
3	T3	17-Jan	S	Jar	1										
4	T4	17-Jan	S	Jar	1										
5	T5	17-Jan	S	Jar	1										
6	T6	18-Jan	S	Jar	1										
7	T7	18-Jan	S	Jar	1	X									
8	T8	18-Jan	S	Jar	1										
TOTAL					8	3	0	0	0	0	0	0	0		

Water Container Codes: P = Unpreserved Plastic, N = Nitric Preserved Plastic, ORC = Nitric Preserved ORC, SH = Sodium Hydroxide/Cd Preserved, S = Sodium Hydroxide Preserved Plastic, AG = Amber Glass Unpreserved, AP = Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved, VB = VOA Vial Sodium Disulphate Preserved, VS = VOA Vial Sulfuric Preserved, AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Amber Glass, H = HCl preserved Plastic, HS = HCl preserved Speciation bottle, SP = Sulfuric Preserved Plastic, F = Formaldehyde Preserved Glass,
Z = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottles, ST = Sterile Bottle, ASS = Plastic Bag for Acid Sulphate Soils, B = Unpreserved Bag



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2401935**

Client : **DOUGLAS PARTNERS PTY LTD**
Contact : **ROB MULLER**
Address : **439 MONTAGUE ROAD**
WEST END QLD, AUSTRALIA 4101

E-mail : **rob.muller@douglaspartners.com.au**
Telephone : **----**
Facsimile : **----**

Project : **219361.02**
Order number : **----**
C-O-C number : **----**
Site : **----**
Sampler : **JESSE WOTTON**

Laboratory : **Environmental Division Brisbane**
Contact : **John Pickering**
Address : **2 Byth Street Stafford QLD Australia**
4053

E-mail : **john.pickering@alsglobal.com**
Telephone : **+61 7 3552 8634**
Facsimile : **+61-7-3243 7218**

Page : **1 of 2**
Quote number : **EM2017DOUPAR0002 (EN/222)**
QC Level : **NEPM 2013 B3 & ALS QC Standard**

Dates

Date Samples Received : **19-Jan-2024 13:58**
Client Requested Due : **30-Jan-2024**
Date

Issue Date : **22-Jan-2024**
Scheduled Reporting Date : **30-Jan-2024**

Delivery Details

Mode of Delivery : **Carrier**
No. of coolers/boxes : **1**

Security Seal : **Intact.**
Temperature : **8.1°C, 10.6°C, 7.4°C - Ice**
Bricks present

Receipt Detail : **Medium Esky**

No. of samples received / analysed : **8 / 3**

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**



CERTIFICATE OF ANALYSIS

Work Order : **EB2401935**
Client : **DOUGLAS PARTNERS PTY LTD**
Contact : **ROB MULLER**
Address : **439 MONTAGUE ROAD**
WEST END QLD, AUSTRALIA 4101
Telephone : **----**
Project : **219361.02**
Order number : **----**
C-O-C number : **----**
Sampler : **JESSE WOTTON**
Site : **----**
Quote number : **EN/222**
No. of samples received : **8**
No. of samples analysed : **3**

Page : 1 of 2
Laboratory : Environmental Division Brisbane
Contact : John Pickering
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61 7 3552 8634
Date Samples Received : 19-Jan-2024 13:58
Date Analysis Commenced : 22-Jan-2024
Issue Date : 29-Jan-2024 13:09



Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

- Key :
- CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 - LOR = Limit of reporting
 - ^ = This result is computed from individual analyte detections at or above the level of reporting
 - ø = ALS is not NATA accredited for these tests.
 - ~ = Indicates an estimated value.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	T1	T2	T7	----	----
Sampling date / time					15-Jan-2024 00:00	17-Jan-2024 00:00	18-Jan-2024 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2401935-001	EB2401935-002	EB2401935-007	-----	-----	
				Result	Result	Result	----	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%	20.6	25.7	19.4	----	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	<5	8	<5	----	----	



QUALITY CONTROL REPORT

Work Order	: EB2401935	Page	: 1 of 3
Client	: DOUGLAS PARTNERS PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: ROB MULLER	Contact	: John Pickering
Address	: 439 MONTAGUE ROAD WEST END QLD, AUSTRALIA 4101	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61 7 3552 8634
Project	: 219361.02	Date Samples Received	: 19-Jan-2024
Order number	: ----	Date Analysis Commenced	: 22-Jan-2024
C-O-C number	: ----	Issue Date	: 29-Jan-2024
Sampler	: JESSE WOTTON		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 8		
No. of samples analysed	: 3		



Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key :
 Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 5554805)									
EB2401935-001	T1	EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5554806)									
EB2401890-001	Anonymous	EA055: Moisture Content	----	0.1	%	10.6	11.0	3.4	0% - 20%
EB2401927-006	Anonymous	EA055: Moisture Content	----	0.1	%	13.3	13.5	1.6	0% - 20%



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: SOIL

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
					Spike	Spike Recovery (%)		Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5554805)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	62.7 mg/kg	105	84.0	123	

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 5554805)							
EB2401935-002	T2	EG005T: Arsenic	7440-38-2	50 mg/kg	95.3	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2401935	Page	: 1 of 4
Client	: DOUGLAS PARTNERS PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: ROB MULLER	Telephone	: +61 7 3552 8634
Project	: 219361.02	Date Samples Received	: 19-Jan-2024
Site	: ----	Issue Date	: 29-Jan-2024
Sampler	: JESSE WOTTON	No. of samples received	: 8
Order number	: ----	No. of samples analysed	: 3

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO** Method Blank value outliers occur.
- **NO** Duplicate outliers occur.
- **NO** Laboratory Control outliers occur.
- **NO** Matrix Spike outliers occur.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for VOC in soils vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: SOIL Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) T1	15-Jan-2024	----	----	----	22-Jan-2024	29-Jan-2024	✓
Soil Glass Jar - Unpreserved (EA055) T2	17-Jan-2024	----	----	----	22-Jan-2024	31-Jan-2024	✓
Soil Glass Jar - Unpreserved (EA055) T7	18-Jan-2024	----	----	----	22-Jan-2024	01-Feb-2024	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) T1	15-Jan-2024	22-Jan-2024	13-Jul-2024	✓	23-Jan-2024	13-Jul-2024	✓
Soil Glass Jar - Unpreserved (EG005T) T2	17-Jan-2024	22-Jan-2024	15-Jul-2024	✓	23-Jan-2024	15-Jul-2024	✓
Soil Glass Jar - Unpreserved (EG005T) T7	18-Jan-2024	22-Jan-2024	16-Jul-2024	✓	23-Jan-2024	16-Jul-2024	✓



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL** Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification .

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	3	33.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Total Metals by ICP-AES	EG005T	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Total Metals by ICP-AES	EG005T	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Total Metals by ICP-AES	EG005T	1	3	33.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).

Appendix G

Laboratory Summary Tables



Table G1: Summary of Laboratory Results – Metals, Priority OCP, Priority OPP, Priority Herbicides (HIL/HSL-D)

			Metals	Priority OCP								Priority OPP	Priority Herbicides					Carbamate Pesticides	Synthetic Pyrethroids
			Total Arsenic	DDT+DDE+DDD	Aldrin + Dieldrin	Total Endosulfan	Endrin	Heptachlor	Hexachlorobenzene	Methoxychlor	Toxaphene	Chlorpyrifos	2,4,5-T	2,4-D	MCPA	MCPB	Mecoprop		
		PQL	2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2
Sample ID	Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
101/0.1	0 - 0.1 m	15/01/24	5.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
D1	0 - 0.1 m	18/01/24	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			3,000 160	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
T1	0 - 0.1 m	15/01/24	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			3,000 160	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
101/0.2	0.1 - 0.2 m	15/01/24	3.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
102/0.1	0 - 0.1 m	17/01/24	5.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
102/0.2	0.1 - 0.2 m	17/01/24	6.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
103/0.1	0 - 0.1 m	17/01/24	6.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
103/0.2	0.1 - 0.2 m	17/01/24	6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
104/0.1	0 - 0.1 m	17/01/24	5.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
104/0.2	0.1 - 0.2 m	17/01/24	4.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
105/0.1	0 - 0.1 m	17/01/24	11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
D2	0 - 0.1 m	18/01/24	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			3,000 160	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
T2	0 - 0.1 m	17/01/24	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			3,000 160	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
105/0.2	0.1 - 0.2 m	17/01/24	6.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
106/0.1	0 - 0.1 m	17/01/24	89	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
106/0.3	0.2 - 0.3 m	17/01/24	18	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
107/0.1	0 - 0.1 m	17/01/24	7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
107/0.2	0.1 - 0.2 m	17/01/24	4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -



Table G1: Summary of Laboratory Results – Metals, Priority OCP, Priority OPP, Priority Herbicides (HIL/HSL-D)

			Metals	Priority OCP								Priority OPP	Priority Herbicides					Carbamate Pesticides	Synthetic Pyrethroids
			Total Arsenic	DDT+DDE+DDD ^c	Aldrin + Dieldrin	Total Endosulfan	Endrin	Heptachlor	Hexachlorobenzene	Methoxychlor	Toxaphene	Chlorpyrifos	2,4,5-T	2,4-D	MCPA	MCPB	Mecoprop		
		PQL	2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2
Sample ID	Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
108/0.1	0 - 0.1 m	17/01/24	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
108/0.2	0.1 - 0.2 m	17/01/24	5.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
109/0.1	0 - 0.1 m	17/01/24	6.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
109/0.2	0.1 - 0.2 m	17/01/24	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
110/0.1	0 - 0.1 m	18/01/24	4.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
111/0.1	0 - 0.1 m	18/01/24	6.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
112/0.1	0 - 0.1 m	18/01/24	7.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
113/0.1	0 - 0.1 m	18/01/24	5.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
113/0.2	0.1 - 0.2 m	18/01/24	7.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
D7	0.1 - 0.2 m	18/01/24	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			3,000 160	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
T7	0.1 - 0.2 m	18/01/24	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			3,000 160	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
114/0.1	0 - 0.1 m	18/01/24	4.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
114/0.2	0.1 - 0.2 m	18/01/24	8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
115/0.1	0 - 0.1 m	18/01/24	6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
115/0.2	0.1 - 0.2 m	18/01/24	4.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
116/0.1	0 - 0.1 m	18/01/24	4.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
116/0.2	0.1 - 0.2 m	18/01/24	2.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
117/0.1	0 - 0.1 m	18/01/24	5.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -

			Metals	Priority OCP								Priority OPP	Priority Herbicides						Carbamate Pesticides	Synthetic Pyrethroids
			Total Arsenic	DDT+DDE+DDD	Aldrin + Dieldrin	Total Endosulfan	Endrin	Heptachlor	Hexachlorobenzene	Methoxychlor	Toxaphene	Chlorpyrifos	2,4,5-T	2,4-D	MCPA	MCPB	Mecoprop			
		PQL	2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2
Sample ID	Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
117/0.2	0.1 - 0.2 m	18/01/24	5.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
118/0.1	0 - 0.1 m	18/01/24	5.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
118/0.2	0.1 - 0.2 m	18/01/24	7.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
119/0.1	0 - 0.1 m	18/01/24	7.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
119/0.2	0.1 - 0.2 m	18/01/24	4.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
120/0.1	0 - 0.1 m	18/01/24	4.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
120/0.2	0.1 - 0.2 m	18/01/24	4.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
121/0.1	0 - 0.1 m	18/01/24	3.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
121/0.2	0.1 - 0.2 m	18/01/24	3.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
122/0.1	0 - 0.1 m	18/01/24	8.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
122/0.2	0.1 - 0.2 m	18/01/24	3.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
123/0.1	0 - 0.1 m	18/01/24	4.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
123/0.2	0.1 - 0.2 m	18/01/24	3.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
124/0.1	0 - 0.1 m	18/01/24	5.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
124/0.2	0.1 - 0.2 m	18/01/24	3.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
125/0.1	0 - 0.1 m	18/01/24	6.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
125/0.2	0.1 - 0.2 m	18/01/24	23	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	
126/0.1	0 - 0.1 m	18/01/24	9.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -	

Table G1: Summary of Laboratory Results – Metals, Priority OCP, Priority OPP, Priority Herbicides (HIL/HSL-D)

			Metals	Priority OCP								Priority OPP	Priority Herbicides					Carbamate Pesticides	Synthetic Pyrethroids
			Total Arsenic	DDT+DDE+DDD ^c	Aldrin + Dieldrin	Total Endosulfan	Endrin	Heptachlor	Hexachlorobenzene	Methoxychlor	Toxaphene	Chlorpyrifos	2,4,5-T	2,4-D	MCPA	MCPB	Mecoprop		
		PQL	2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2
Sample ID	Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
126/0.2	0.1 - 0.2 m	18/01/24	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
127/0.1	0 - 0.1 m	17/01/24	5.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
128/0.1	0 - 0.1 m	17/01/24	4.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -
129/0.1	0 - 0.1 m	17/01/24	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			3,000 160	3,600 640	45 -	2,000 -	100 -	50 -	80 -	2,500 -	160 -	2,000 -	5,000 -	9,000 -	5,000 -	5,000 -	5,000 -	- -	- -

Lab result

HIL/HSL value EIL/ESL/EGV value

HIL/HSL exceedance

EIL/ESL exceedance

HIL/HSL and EIL/ESL exceedance

ML exceedance

ML and HIL/HSL or EIL/ESL exceedance

Indicates that asbestos has been detected by the lab, refer to the lab report

Blue = DC exceedance

Red = EGV-indirect exceedance

HSL 0-<1 Exceedance

Bold = Lab detections

- = Not tested or No HIL/HSL/EIL/ESL (as applicable) or Not applicable

NL = Not limiting

NAD = No Asbestos detected

HIL = Health investigation level HSL = Health screening level (excluding DC) EIL = Ecological investigation level ESL = Ecological screening level EGV = Environmental Guideline Value ML = Management Limit DC = Direct Contact HSL

- Notes:**
- a QA/QC replicate of sample listed directly below the primary sample
 - b Naphthalene reported as highest detection from the BTEXN or PAH suite, or if both results <PQL as lowest PQL
 - c EIL criteria applies to DDT only

Site Assessment Criteria (SAC):

SAC based on generic land use thresholds for Commercial/ industrial D

Refer to the SAC section of report for information of SAC sources and rationale. Summary information as follows:

HIL	HIL-D (NEPC, 2013 or HEPA, 2020 (PFAS only))	EGV	EGV, all land uses, direct exposure (HEPA, 2020)
HSL (vapour intrusion)	HSL-D (NEPC, 2013)	ESL	Commercial and Industrial (NEPC, 2013)
DC	Direct contact HSL D Commercial/Industrial (CRC CARE, 2011)	ML	Commercial and Industrial (NEPC, 2013)

Table G2: Summary of Laboratory Results – Metals, Priority OCP, Priority OPP, Priority Herbicides (HIL/HSL-A)

			Metals	Priority OCP								Priority OPP	Priority Herbicides					Carbamate Pesticides	Synthetic Pyrethroids
			Total Arsenic	DDT+DDE+DDD ^c	Aldrin + Dieldrin	Total Endosulfan	Endrin	Heptachlor	Hexachlorobenzene	Methoxychlor	Toxaphene	Chlorpyrifos	2,4,5-T	2,4-D	MCPA	MCPB	Mecoprop		
		PQL	2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2
Sample ID	Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
101/0.1	0 - 0.1 m	15/01/24	5.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
D1	0 - 0.1 m	18/01/24	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			100 100	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
T1	0 - 0.1 m	15/01/24	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			100 100	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
101/0.2	0.1 - 0.2 m	15/01/24	3.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
102/0.1	0 - 0.1 m	17/01/24	5.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
102/0.2	0.1 - 0.2 m	17/01/24	6.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
103/0.1	0 - 0.1 m	17/01/24	6.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
103/0.2	0.1 - 0.2 m	17/01/24	6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
104/0.1	0 - 0.1 m	17/01/24	5.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
104/0.2	0.1 - 0.2 m	17/01/24	4.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
105/0.1	0 - 0.1 m	17/01/24	11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
D2	0 - 0.1 m	18/01/24	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			100 100	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
T2	0 - 0.1 m	17/01/24	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			100 100	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
105/0.2	0.1 - 0.2 m	17/01/24	6.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
106/0.1	0 - 0.1 m	17/01/24	89	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
106/0.3	0.2 - 0.3 m	17/01/24	18	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
107/0.1	0 - 0.1 m	17/01/24	7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
107/0.2	0.1 - 0.2 m	17/01/24	4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -

Table G2: Summary of Laboratory Results – Metals, Priority OCP, Priority OPP, Priority Herbicides (HIL/HSL-A)

			Metals	Priority OCP								Priority OPP	Priority Herbicides					Carbamate Pesticides	Synthetic Pyrethroids
			Total Arsenic	DDT+DDE+DDD ^c	Aldrin + Dieldrin	Total Endosulfan	Endrin	Heptachlor	Hexachlorobenzene	Methoxychlor	Toxaphene	Chlorpyrifos	2,4,5-T	2,4-D	MCPA	MCPB	Mecoprop		
		PQL	2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2
Sample ID	Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
108/0.1	0 - 0.1 m	17/01/24	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
108/0.2	0.1 - 0.2 m	17/01/24	5.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
109/0.1	0 - 0.1 m	17/01/24	6.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
109/0.2	0.1 - 0.2 m	17/01/24	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
110/0.1	0 - 0.1 m	18/01/24	4.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
111/0.1	0 - 0.1 m	18/01/24	6.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
112/0.1	0 - 0.1 m	18/01/24	7.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
113/0.1	0 - 0.1 m	18/01/24	5.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
113/0.2	0.1 - 0.2 m	18/01/24	7.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
D7	0.1 - 0.2 m	18/01/24	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			100 100	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
T7	0.1 - 0.2 m	18/01/24	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			100 100	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
114/0.1	0 - 0.1 m	18/01/24	4.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
114/0.2	0.1 - 0.2 m	18/01/24	8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
115/0.1	0 - 0.1 m	18/01/24	6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
115/0.2	0.1 - 0.2 m	18/01/24	4.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
116/0.1	0 - 0.1 m	18/01/24	4.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
116/0.2	0.1 - 0.2 m	18/01/24	2.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
117/0.1	0 - 0.1 m	18/01/24	5.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -

Table G2: Summary of Laboratory Results – Metals, Priority OCP, Priority OPP, Priority Herbicides (HIL/HSL-A)

			Metals	Priority OCP								Priority OPP	Priority Herbicides					Carbamate Pesticides	Synthetic Pyrethroids
			Total Arsenic	DDT+DDE+DDD ^c	Aldrin + Dieldrin	Total Endosulfan	Endrin	Heptachlor	Hexachlorobenzene	Methoxychlor	Toxaphene	Chlorpyrifos	2,4,5-T	2,4-D	MCPA	MCPB	Mecoprop		
		PQL	2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2
Sample ID	Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
117/0.2	0.1 - 0.2 m	18/01/24	5.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
118/0.1	0 - 0.1 m	18/01/24	5.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
118/0.2	0.1 - 0.2 m	18/01/24	7.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
119/0.1	0 - 0.1 m	18/01/24	7.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
119/0.2	0.1 - 0.2 m	18/01/24	4.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
120/0.1	0 - 0.1 m	18/01/24	4.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
120/0.2	0.1 - 0.2 m	18/01/24	4.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
121/0.1	0 - 0.1 m	18/01/24	3.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
121/0.2	0.1 - 0.2 m	18/01/24	3.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
122/0.1	0 - 0.1 m	18/01/24	8.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
122/0.2	0.1 - 0.2 m	18/01/24	3.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
123/0.1	0 - 0.1 m	18/01/24	4.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
123/0.2	0.1 - 0.2 m	18/01/24	3.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
124/0.1	0 - 0.1 m	18/01/24	5.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
124/0.2	0.1 - 0.2 m	18/01/24	3.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
125/0.1	0 - 0.1 m	18/01/24	6.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
125/0.2	0.1 - 0.2 m	18/01/24	23	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
126/0.1	0 - 0.1 m	18/01/24	9.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -



Table G2: Summary of Laboratory Results – Metals, Priority OCP, Priority OPP, Priority Herbicides (HIL/HSL-A)

			Metals	Priority OCP								Priority OPP	Priority Herbicides					Carbamate Pesticides	Synthetic Pyrethroids
			Total Arsenic	DDT+DDE+DDD ^c	Aldrin + Dieldrin	Total Endosulfan	Endrin	Heptachlor	Hexachlorobenzene	Methoxychlor	Toxaphene	Chlorpyrifos	2,4,5-T	2,4-D	MCPA	MCPB	Mecoprop		
		PQL	2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2
Sample ID	Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
126/0.2	0.1 - 0.2 m	18/01/24	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
127/0.1	0 - 0.1 m	17/01/24	5.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
128/0.1	0 - 0.1 m	17/01/24	4.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -
129/0.1	0 - 0.1 m	17/01/24	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<LOR	<LOR
			100 100	240 180	6 -	270 -	10 -	6 -	10 -	300 -	20 -	160 -	600 -	900 -	600 -	600 -	600 -	- -	- -

Lab result

HIL/HSL value EIL/ESL/EGV value

HIL/HSL exceedance

EIL/ESL exceedance

HIL/HSL and EIL/ESL exceedance

ML exceedance

ML and HIL/HSL or EIL/ESL exceedance

Indicates that asbestos has been detected by the lab, refer to the lab report

Blue = DC exceedance

Red = EGV-indirect exceedance

HSL 0-<1 Exceedance

Bold = Lab detections

- = Not tested or No HIL/HSL/EIL/ESL (as applicable) or Not applicable

NL = Not limiting

NAD = No Asbestos detected

HIL = Health investigation level HSL = Health screening level (excluding DC) EIL = Ecological investigation level ESL = Ecological screening level EGV = Environmental Guideline Value ML = Management Limit DC = Direct Contact HSL

- Notes:**
- a QA/QC replicate of sample listed directly below the primary sample
 - b Naphthalene reported as highest detection from the BTEXN or PAH suite, or if both results <PQL as lowest PQL
 - c EIL criteria applies to DDT only

Site Assessment Criteria (SAC):

SAC based on generic land use thresholds for Residential A with garden/accessible soil

Refer to the SAC section of report for information of SAC sources and rationale. Summary information as follows:

HIL	HIL-A (NEPC, 2013 or HEPA, 2020 (PFAS only))	EGV	EGV, all land uses, direct exposure (HEPA, 2020)
HSL (vapour intrusion)	HSL-A/B (NEPC, 2013)	ESL	Urban Residential and Public Open Space (NEPC, 2013)
DC	Direct contact HSL A Residential (Low density) (CRC CARE, 2011)	ML	Residential, Parkland and Public Open Space (NEPC, 2013)
		EGV-Indir	EGV, all land uses, Indirect exposure (HEPA, 2020)

Table G3: Summary of Groundwater Field Parameters

Sample ID	Date Sampled	Well Details		Field Parameters						
		Total Bore Depth (mbgl)	SWL (mbgl)	Temp. (°C)	pH		EC (µS/cm)		Turbidity (NTU)	
					Lower Limit	Upper Limit	Low Flow	High Flow	Low Flow	High Flow
MW101	22/01/2023	18.00	17.49	28.1	5.8		2,010		1,114	
MW7	22/01/2023	16.15	11.71	27.3	5.7		1,490		789	
MW9	22/01/2023	19.75	17.15	28.5	5.9		1,750		1,174	

Site Assessment Criteria									
DES ¹				6.5	8	1,200	940	7	17
ANZECC ³				6.5	8	125-2,200		6-50	
ADWG ²				6.5	8.5	~		5	

- Notes
- 1

DES (2022) Environmental Protection (Water and Wetland Biodiversity) Policy 2019 - Logan River Environmental Values and Water Quality Objectives
- 2

ANZECC (2000) Tables 3.3.2 and 3.3.3 Default trigger values for slightly disturbed ecosystems for south-east Australia, Lowland River
- 3

ADWG (2011), v 3.8, updated 2022, Table 10.6, guideline values for physical and chemical characteristics
- SWL

Standing water level
- mbGL

metres below ground level
- maGL

metres above ground level
- N/A

Not applicable
- Not measured
- ~

No guideline available at time of investigation
- Purple

cells contain levels of an analyte greater than DES (2022) (or lower than lower limits)
- Green

cells contain levels of an analyte outside ANZECC (2000) criteria
- Blue

cells contain levels of an analyte greater than ADWG (2011)

This table has been produced in colour to indicate exceedences of relevant criteria. Reproduction should be carried out in colour.

Table G4: Summary of Groundwater Laboratory Results – Arsenic, Carbamate Pesticides, Synthetic Pyrethroids

		Metals	Carbamate Pesticides							Synthetic Pyrethroids							
		Arsenic	Aldicarb	Bendiocarb	Carbaryl	Carbofuran	Methomyl	Oxamyl	Thiobencarb	Allethrin	Cyfluthrin	Cypermethrin (total)	Fenvalerate	Permethrin	Phenothrin	Resmethrin	Tetramethrin
	LOR	1	10	10	10	10	10	10	10	200	200	200	200	200	200	200	200
Sample ID	Sample Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW101	14/09/2023	160	<10	<10	<10	<10	<10	<10	<10	<200	<200	<200	<200	<200	<200	<200	<200
MW7	14/09/2023	4	<10	<10	<10	<10	<10	<10	<10	<200	<200	<200	<200	<200	<200	<200	<200
MW9	14/09/2023	76	<10	<10	<10	<10	<10	<10	<10	<200	<200	<200	<200	<200	<200	<200	<200
Site Assessment Criteria																	
ANZG 95% ²		24*	~	~	~	1.2	3.5	~	~	~	~	0.006	~	~	~	~	~
GIL ¹		24* /13'	~	~	~	0.06	3.5	~	2.8	~	~	~	~	~	~	~	~
ADWG ³		10	4	~	30	10	20	7	40	~	50	400	60	200	~	~	~

- Notes/Legend**
- 1

ANZG (2018) - Trigger values for freshwaters, 95% level of protection
- 2

NEPM Schedule B1 Table 1C Groundwater Investigation Levels (GILs), Fresh waters
- 3

ADWG (2011), v 3.8, updated September 2022, Part 5, health considerations for drinking water
- 4

NEPM Schedule B1 Table 1A(4) Groundwater HSLs for vapour intrusion for low - high density residential premises with garden/accessible soil
- <LOR

Less than the laboratory's limit of reporting
- #

Based on pH > 6.5
- *

Values for As(III)
- '

Value for As(V)
- "

Figure may not protect key test species from chronic toxicity.
- ^

To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protection level is used for slightly to moderately disturbed systems.
- Not tested
- ~

No guideline available at time of investigation
- NA

Not applicable
- Bold**

Indicates detection of an analyte
- Green

cells contain levels of an analyte greater than ANZG (2018)
- Light green

concentration was below laboratory LOR, however LOR exceeded ANZG
- Orange

cells contain levels of an analyte greater than GIL
- Light orange

concentration was below laboratory LOR, however LOR exceeded GIL
- Blue

cells contain analytes greater than ADWG (2011)
- Light blue

concentration was below laboratory LOR, however LOR exceeded ADWG

This table has been produced in colour to indicate exceedences of relevant criteria. Reproduction should be carried out in colour.

Table G5: Summary of Groundwater Laboratory Results – OCP

		OCP																						
		Aldrin	a-HCH	b-HCH	d-HCH	g-HCH	Total Chlordane (sum)	Dieldrin	Aldrin & Dieldrin (sum)	4,4'-DDE	4,4'-DDD	4,4'-DDT	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endosulfan (sum)	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
	LOR	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	5
Sample ID	Sample Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW101	14/09/2023	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5
MW7	14/09/2023	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5
MW9	14/09/2023	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5
Site Assessment Criteria																								
ANZG 95% ²		0.001	~	~	~	~	0.08	0.01	~	~	~	0.01	~	~	~	0.2	0.02	~	~	0.09	~	~	0.005	0.2
GIL ¹		~	~	~	~	~	0.03	~	~	~	~	0.006	~	~	~	0.03	0.01	~	~	0.01	~	~	~	0.1
ADWG ³		~	~	~	~	~	2	~	0.3	~	~	9	~	~	~	20	~	~	~	~	0.3	~	~	~

Notes/Legend

- 1

ANZG (2018) - Trigger values for freshwaters, 95% level of protection
- 2

NEPM Schedule B1 Table 1C Groundwater Investigation Levels (GILs), Fresh waters
- 3

ADWG (2011), v 3.8, updated September 2022, Part 5, health considerations for drinking water
- 4

NEPM Schedule B1 Table 1A(4) Groundwater HSLs for vapour intrusion for low - high density residential premises with garden/accessible soil
- <LOR

Less than the laboratory's limit of reporting
- #

Based on pH > 6.5
- "

Figure may not protect key test species from chronic toxicity.
- ^

To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protection level is used for slightly to moderately disturbed systems.
- Not tested
- ~

No guideline available at time of investigation
- NA

Not applicable

Green	Indicates detection of an analyte
Green	cells contain levels of an analyte greater than ANZG (2018)
Light green	concentration was below laboratory LOR, however LOR exceeded ANZG
Orange	cells contain levels of an analyte greater than GIL
Light orange	concentration was below laboratory LOR, however LOR exceeded GIL
Blue	cells contain analytes greater than ADWG (2011)
Light blue	concentration was below laboratory LOR, however LOR exceeded ADWG

This table has been produced in colour to indicate exceedences of relevant criteria. Reproduction should be carried out in colour.

Table G6: Summary of Groundwater Laboratory Results – Priority OPP

		Priority OPP													
		Azinphos Methyl	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Ethion	Fenthion	Fenitrothion	Malathion	Monocrotophos	Primphos-methyl
	LOR	2	20	2	2	2	2	2	2	2	2	2	2	2	2
Sample ID	Sample Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW101	14/09/2023	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
MW7	14/09/2023	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
MW9	14/09/2023	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Site Assessment Criteria															
ANZG 95% ²		0.02	~	0.01	~	~	0.01	~	0.15	~	~	0.2	0.05	~	~
GIL ¹		~	~	0.01	~	~	0.01	~	0.15	~	~	0.2	0.05	~	~
ADWG ³		30	2	10	~	~	4	5	7	4	7	7	70	2	90

- Notes/Legend**
- 1 ANZG (2018) - Trigger values for freshwaters, 95% level of protection
 - 2 NEPM Schedule B1 Table 1C Groundwater Investigation Levels (GILs), Fresh waters
 - 3 ADWG (2011), v 3.8, updated September 2022, Part 5, health considerations for drinking water
 - 4 NEPM Schedule B1 Table 1A(4) Groundwater HSLs for vapour intrusion for low - high density residential premises with garden/accessible soil
 - <LOR Less than the laboratory's limit of reporting
 - # Based on pH > 6.5
 - * Values for As(III)
 - ' Value for As(V)
 - ** Value relates to Cr(III)
 - *** Value for Cr (VI), hexavalent chromium
 - " Figure may not protect key test species from chronic toxicity.
 - ^ To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protection level is used for slightly to moderately disturbed systems.
 - + Inorganic Mercury
 - Not tested
 - ~ No guideline available at time of investigation
 - NA Not applicable
 - Bold** Indicates detection of an analyte
 - Green** cells contain levels of an analyte greater than ANZG (2018)
 - Light green** concentration was below laboratory LOR, however LOR exceeded ANZG
 - Orange** cells contain levels of an analyte greater than GIL
 - Light orange** concentration was below laboratory LOR, however LOR exceeded GIL
 - Blue** cells contain analytes greater than ADWG (2011)
 - Light blue** concentration was below laboratory LOR, however LOR exceeded ADWG

This table has been produced in colour to indicate exceedences of relevant criteria. Reproduction should be carried out in colour.

Table G7: Summary of Groundwater Laboratory Results – Acid Herbicides

		Acid Herbicides											
		2,4-D	2,4-DB	2,4,5-T	2,4,5-TP	Actril (loxyntil)	Dicamba	Dichlorprop	Dinitro-o-cresol	Dinoseb	MCPA	MCPB	Mecoprop
	LOR	1	1	1	1	1	1	1	1	1	1	1	1
Sample ID	Sample Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW101	14/09/2023	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MW7	14/09/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW9	14/09/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Site Assessment Criteria													
ANZG 95% ²		280	~	36	~	~	~	~	~	~	1.4	~	~
GIL ¹		280	~	36	~	~	~	~	~	~	~	~	~
ADWG ³		30	~	100	~	~	100	~	~	~	40	~	~

- Notes/Legend**
- 1 ANZG (2018) - Trigger values for freshwaters, 95% level of protection
 - 2 NEPM Schedule B1 Table 1C Groundwater Investigation Levels (GILs), Fresh waters
 - 3 ADWG (2011), v 3.8, updated September 2022, Part 5, health considerations for drinking water
 - 4 NEPM Schedule B1 Table 1A(4) Groundwater HSLs for vapour intrusion for low - high density residential premises with garden/accessible soil
 - <LOR Less than the laboratory's limit of reporting
 - # Based on pH > 6.5
 - * Values for As(III)
 - ' Value for As(V)
 - ** Value relates to Cr(III)
 - *** Value for Cr (VI), hexavalent chromium
 - " Figure may not protect key test species from chronic toxicity.
 - ^ To account for the bioaccumulating nature of this toxicant, it is recommended that the 99% species protection level is used for slightly to moderately disturbed
 - + Inorganic Mercury
 - Not tested
 - ~ No guideline available at time of investigation
 - NA Not applicable
 - Bold** Indicates detection of an analyte
 - Green** cells contain levels of an analyte greater than ANZG (2018)
 - Light green** concentration was below laboratory LOR, however LOR exceeded ANZG
 - Orange** cells contain levels of an analyte greater than GIL
 - Light orange** concentration was below laboratory LOR, however LOR exceeded GIL
 - Blue** cells contain analytes greater than ADWG (2011)
 - Light blue** concentration was below laboratory LOR, however LOR exceeded ADWG

This table has been produced in colour to indicate exceedences of relevant criteria. Reproduction should be carried out in colour.



Table QA1: Relative Percentage Difference Results – Soil Sampling

Lab Report No	Sample ID	Depth	Sample Date	Sample Type	Units	Priority metals
						Total Arsenic

1061899	101/0.1	0 - 0.1 m	15/01/24	Soil	mg/kg	5.5
1061899	D1	0 - 0.1 m	18/01/24	Soil	mg/kg	3.9
			Difference		mg/kg	1.6
			RPD		%	34%

1061899	101/0.1	0 - 0.1 m	15/01/24	Soil	mg/kg	5.5
EB2401935	T1	0 - 0.1 m	15/01/24	Soil	mg/kg	<5
			Difference		mg/kg	0.5
			RPD		%	10%

1061899	105/0.1	0 - 0.1 m	17/01/24	Soil	mg/kg	11
1061899	D2	0 - 0.1 m	18/01/24	Soil	mg/kg	20
			Difference		mg/kg	9
			RPD		%	58%

1061899	105/0.1	0 - 0.1 m	17/01/24	Soil	mg/kg	11
EB2401935	T2	0 - 0.1 m	17/01/24	Soil	mg/kg	8
			Difference		mg/kg	3
			RPD		%	32%

1061899	113/0.2	0.1 - 0.2 m	18/01/24	Soil	mg/kg	7.9
1061899	D7	0.1 - 0.2 m	18/01/24	Soil	mg/kg	4.8
			Difference		mg/kg	3.1
			RPD		%	49%

1061899	113/0.2	0.1 - 0.2 m	18/01/24	Soil	mg/kg	7.9
EB2401935	T7	0.1 - 0.2 m	18/01/24	Soil	mg/kg	<5
			Difference		mg/kg	2.9
			RPD		%	45%

Exceedance of RPD acceptance criteria



Table QA2: Trip Blank Results - Soil and Groundwater Sampling

Sample ID	Sample Date	Media Being Sampled	Sample Type	Units	Priority TRH		TRH	BTEX				Lab Report No
					TRH C6 - C10	FI ((C6-C10)-BTEX)		Benzene	Toluene	Ethylbenzene	Total Xylenes	
TRIP BLANK	15/01/24	Soil	Soil	mg/kg	<20	<20	<20	<0.1	<0.1	<0.1	<0.3	1061899
TRIP BLANK	17/01/24	Soil	Soil	mg/kg	<20	<20	<20	<0.1	<0.1	<0.1	<0.3	1061899
TRIP BLANK	22/01/2024	Water	Water	mg/kg	-	<20	<20	<1	<1	<1	<3	1062354
TRIP BLANK	22/01/2024	Water	Water	mg/kg	<20	-	-	-	-	-	-	1064142



Table QA3: Trip Spike Results – Soil and Groundwater Sampling (% Recovery)

Sample ID	Sample Date	Media Being Sampled	Sample Type	Benzene	Toluene	Ethylbenzene	o-Xylene	m+p-Xylene	Lab Report No
TRIP SPIKE	15/01/24	Soil	Water	95	80	87	79	100	1061899
TRIP SPIKE	17/01/24	Soil	Water	100	83	92	84	110	1061899
TRIP SPIKE	22/01/2024	Water	Water	93	75	80	73	93	1062354
TRIP SPIKE	22/01/2024	Water	Water	84	83	83	76	86	1064142