

Stage 2 - Environmental Site Investigation 515 Crookwell Road, Kingsdale NSW 2580 Prepared for: Alimaco Pty Ltd



ST-01-1492 / ESI V1 Final 27th August 2022

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List of Abbreviations

| ACM | Asbestos Containing Material |
|----------|--|
| ACCALERA | |
| ASC NEPM | Assessment of Site Contamination – National Environmental Protection Measure |
| | (1999 amended 2013) |
| ASET | Australian Safer Environment & Technology Pty Ltd |
| ASRIS | Australian Soil Resource Information System |
| ASLP | Australian Leaching Procedure |
| BH | Borehole |
| BGL | Below ground level |
| BR | Blind replicate |
| BTEXN | Benzene, Toluene, Ethylbenzene, Xylene and Naphthalene |
| CLR | Contaminated Land Register |
| COC | Chain of Custody |
| CoPC | Contaminants of Potential Concern |
| CSM | Conceptual Site Model |
| DBYD | Dial Before You Dig |
| DDD | Dichloro-Diphenyl Dichloroethane |
| DDE | Dichloro-Diphenyl Dichloroethylene |
| DDT | Dichloro-Diphenyl Trichloroethane |
| DP | Deposited Plan |
| EIL | Ecological Investigation Levels |
| ESI | Environmental Site Investigation |
| GPR | Ground Penetrating Radar |
| HIL | Health Investigation Levels |
| HSL | Health Screening Levels |
| LGA | Local Government Area |
| LOR | Limit of Reporting |
| m AHD | meters, Australian Height Datum |
| NATA | National Association of Testing Authorities |
| NSW EPA | New South Wales Environment Protection Authority |
| ОСР | Organochloride Pesticides |
| OEH | Office of Environment and Heritage |
| OPP | Organophosphate Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| РСВ | Polychlorinated Biphenyl |
| PID | Photo-ionisation detector |
| QA | Quality Assurance |
| QC | Quality Control |
| RPD | Relative Percentage Difference |
| SAC | Site Acceptance Criteria |
| SPR | Source-Pathway-Receptor |
| SWMS | Safe Work Method Statement |
| TRH | Total Recoverable Hydrocarbons |
| UCL | Upper Confidence Level |

1. INTRODUCTION

K2 Consulting Group (K2) was engaged by Alimaco Pty Ltd (Client) to undertake a Stage 2 - Environmental Site Investigation (ESI) of the property located at 515 Crookwell Road, Kingsdale NSW 2580 (hereinafter referred to as 'the site'). The site can be identified as Lot 103 and Lot 104 of DP 1007433 and located within the Goulburn-Mulwaree Council Local Government Area (LGA). The site is proposed to be developed into twenty-four (24) low-density rural residential subdivisions/allotments.

This report has been prepared in general accordance with provisions for an Environmental Site Investigation as defined within the NSW EPA (2020) Guidelines for Consultants Reporting on Contaminated Sites and National Environmental Protection (Assessment of Site Contamination) Measure 1999 (ASC NEPM, 2013) and other relevant best industry practices and guidelines.

2. PROPOSED WORKS

The proposed development at the site involves a twenty-four (24) lot rural residential subdivision and the construction of associated infrastructure such as roads and utilities. The existing structures at the site such as the residential buildings, sheds and other infrastructure will be demolished and disposed off-site to assist in proposed development. It is noted that cut and fill works may be undertaken to level ground at the site. The scope of work doesn't include hazardous material inspection at the existing buildings.

3. OBJECTIVES

The objectives of the site investigation for contamination include:

- Review previous site investigations conducted by other consultants;
- Refine the Conceptual Site Model (CSM) from the previous site investigation and update the CSM for any identified source of contamination exposure pathway and receptor linkages
- Undertake limited intrusive site investigation including soil sampling to identify potential contaminations; and
- Evaluate suitability of the site for the proposed development in accordance with the NEPM 2013 and other relevant guidelines.

4. SCOPE OF WORKS

The scope of works undertaken to prepare the Stage 2 - Environmental Site Investigation report included the following:

- Preparation of Safe Work Method Statement (SWMS);
- Review of available desktop information (all information provided by the client to collate a CSM);
- Review of previous Preliminary Site Investigation (PSI) undertaken at the site by other consultants;
- Preparation of a limited soil sampling program;
- Undertake a Dial Before You Dig (DBYD) search before commencing site works;
- Collection of soil samples from twelve (12) locations across the areas of environmental concerns (AEC) identified during the previous report (**Figure 1**). The soil sample collected to a depth of 0.2 m to 1.0 m Below Ground Level (BGL). The proposed sampling density does not



meet the minimum number of sampling required as per the NSW EPA (2022) and sampling locations are selected using a professional judgemental sampling pattern;

- Laboratory analysis of selected soil samples for contaminants of potential concerns (CoPC) including Heavy metals/metalloids (Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Mercury, and Zinc), Total Recoverable Hydrocarbons (TRH), Polycyclic Aromatic Hydrocarbons (PAH), Benzene, Toluene, Ethylbenzene, Xylenes and Naphthalene (BTEXN), Organo Chlorine and Organo Phosphate pesticides (OCP / OPP), and Asbestos (presence or absence);
- Analysis of selected eight (8) soil samples for Australian Standard Leaching Procedure (ASLP) test metal; and
- Preparation of this Stage 2 Environmental Site Investigation (ESI) report in accordance with adopted guidelines.

5. SITE DESCRIPTION

The site is located at 515 Crookwell Road, Kingsdale NSW 2580 (Lot 103 and Lot 104 on DP 1007433) and is currently zoned RU6 C3-Environmental management under the Goulburn-Mulwaree Local Environmental Plan (LEP) 2009. Compacted earth road base was observed in the driveway section leading from Crookwell Road and the remaining access roads were made of gravel and earth. Imported fill materials may be present under the constructed areas including the residential building and sheds. Topsoil was observed in the other AEC investigated. Areas in other sections of the site outside the AEC were not inspected and are outside the scope of this investigation. Refer to **Table 1** below for the site summary. The site location and boundaries are presented in **Appendix I**.

| Item | Description |
|----------------------------|--|
| Client | Alimaco Pty Ltd |
| Site Address | 515 Crookwell Road, Kingsdale NSW 2580 |
| Current Zoning | RU6 C3 – Environmental Management |
| Legal Description | Lot 103 and Lot 104 on DP 1007433 |
| Local Government Authority | Goulburn-Mulwaree Council |
| Site Area (ha) | 55 Approx. |
| Elevation (m AHD) | Between 670 along the South to 682 along the north |
| Geographical Location | 34°42′58″ S 149°42′13″ E |
| (GDA94-MGA56) | |

Table 1. Site Identification

5.1. Surrounding Land Use

A summary of surrounding land uses is provided in **Table 2** below.

| Table 2. Summary | of surrounding areas |
|------------------|----------------------|
|------------------|----------------------|

| Surrounding areas | Description |
|-------------------|---|
| Eastern section | Crookwell Road is the eastern boundary of the site beyond which is Sparse rural dwellings and paddock land. |
| Western section | The western boundary is defined by a cattle fence. Paddock land beyond the western boundary. Lake Sooley is located approximately 1 km to the west of the site. |
| Northern section | The northern boundary is defined by a cattle fence. Paddock land and sparse rural dwellings beyond. |
| Southern section | The southern boundary is defined by a cattle fence. Paddock land and sparse rural dwellings. The Wollondilly River has located approximately 1.8 km to the south of the site. |

5.2. Site Description

The following site features were observed during the site walkover inspections and are summarised below:

- An unpaved driveway was observed to traverse from Crookwell Road on the eastern boundary to the residential property;
- A residential house was located centrally along the eastern section of the site. The inside of the house was not inspected. The house is a stand-alone residential building and is not attached to any sheds;
- The site was predominantly used as a sheep farm;
- A workshop shed was located adjacent to the house. The workshop was primarily used for maintenance of automobile and farm equipment and related storage of items including chemicals such as oils, and herbicides;
- A sheep mustering dock was located in the northern section of the site, which contains two (2) sheds;
- Hay storage shed, and a silo was observed to the west of the workshop shed;
- Another small shed was located along the western boundary of the site;
- Multiple fence lines and cattle grids were observed within the site;
- Extended driveways and tracks were observed leading to multiple storage sheds and silos located on the site. The remaining surfaces on site were grassed paddock land;
- Three (3) surface water dams constructed from soil embankments were observed on-site. The water in the dam located to the south-eastern section of the property appeared to contain a pinkish layer of film. No further investigation was undertaken during this assessment;
- Mature trees were noted across the property;
- The site is elevated along the northern section and generally slopes down towards the southern and western sections. Any surface water along the northern and eastern sections of the site will eventually drain into the Wollondilly River to the south of the site;



- Stockpiles of demolished construction material and timber were observed along the northwest corner of the site;
- Two (2) above-ground fuel storage tanks and agricultural machinery were observed to the north of the workshop shed. The volume of the fuel tanks was not determined during the inspection. Please refer to Photos.13 and 14 for the location and size of the tanks;
- IBC containers of unknown liquids were observed along AEC 2 and AEC 3. IBCs were partially filled with these unknown liquids and hence a volume could not be determined. Chemical containers were observed to be present at multiple locations on-site mainly along the driveway footprint in the eastern section of the site;
- An underground septic system and soil irrigation area were noted to the east of the house at AEC 2, however, no further investigation was undertaken as K2 did not have any plans of underground utilities or pipelines in this area;
- Power lines were noted to traverse through the site in a north-south direction; and
- Groundwater bores were noted along the eastern section of the site; however, the total
 number of bores on-site was not inspected. Water storage tanks were observed at multiple
 locations on-site, it is assumed that the extracted groundwater is stored in these tanks for
 farming purposes. Sub-surface water lines were reported to be present on-site, however, no
 drawings indicating the lines were available at the time of inspection.

Relevant site features are presented in Figure 1 of this report.

6. PREVIOUS INVESTIGATIONS

Preliminary Site Investigation, Report No: 20027CC-001, dated 28th October 2021 (Civplan PSI 2021):

CivPlan Pty Ltd (CivPlan) prepared a PSI for the site and a summary of the report is presented below:

- "Historical information for the property and onsite observations indicate that potentially contaminating activities may have occurred on site which may have impacted the site. The potential contaminants of concern associated with these activities, and the potential areas of environmental concern (AECs) are defined in the Conceptual Site Model (CSM);
- Potential for on-site use of pesticides, primary effluent disposal area, vehicle/equipment storage and maintenance activities, pre-1998 dwelling, shed and structure construction materials and importation of fill materials for the driveway which may have contained contaminants entrapped at the source of the fill; and
- Four AECs have been identified (refer to **Figure 1**) and will require further investigation both pre and post-demolition of the existing structures. The remainder of the site is of the MODERATE likelihood for any contamination due to agricultural land use activities and will also require additional investigation. "

The recommendations in the report by CivPlan are summarised below:

• "Due to the historical use of the site resulting in a moderate likelihood of any contamination, it is recommended that a Detailed Site Investigation (DSI) is undertaken to determine if the site is fit for its intended purpose;



- To address potential AEC and CoPC, an intrusive soil sampling regime is recommended to be conducted. The sampling regime must be in accordance with the following statutory guideline documents:
 - Consultants reporting on contaminated land, NSW EPA 2020;
 - National Environmental Protection (Assessment of site contamination) Measure, NEPM (2013)."

7. CONCEPTUAL SITE MODEL

A conceptual site model (CSM) is a tool that relates identified impacts to potentially contaminated source areas based on interpretation of the geology/hydrogeology and contaminant migration pathways and potential human and environmental receptors. A CSM provides a discussion of the nature and extent of impacts, and relevant source-pathway-receptor (SPR) linkages.

A CSM was prepared by CivPlan (<u>Civplan PSI 2021</u>). **Table 3** below presents the updated CSM based on additional information and investigation undertaken by K2.



| Source | Contaminants of Potential Concern (CoPC) | Affected Areas | Primary Release Mechanism | Secondary Release Mechanism | Potential Impacted Media | Exposure Pathways | Potential receptors* | The Potential risk of Complete exposure pathway |
|---|---|---|---|--|---|---|--|---|
| Imported fill material underneath concrete hardstand areas under the sheds and from compacted driveways within the site | TRH, BTEX, PAH, Heavy metals, OCP, OPP, Asbestos | Across the site, with emphasis on the areas adjacent to the AECs | Placement of fills material onsite | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water run-off | Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration. | Current residents, future residents, future workers, neighbouring residents, and construction personnel involved in the development of the site | Complete |
| | | | | | | | Groundwater | Complete |
| Storage of chemical containers and IBCs of unidentified liquids on site | TRH, BTEX, PAH, OCP, OPP, PCB, Heavy metals, Asbestos | Across the site, with emphasis on the areas adjacent to the AECs | Release of any hydrocarbon-based oils and fluids | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water | Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration. | Current residents, future residents, future workers, neighbouring residents, and construction personnel involved in the development of the site | Complete |
| | | | | | | | Groundwater | Complete |
| Fuel and oil spillage from maintenance, parking and refuelling of motor vehicles on site | TRH, BTEXN, PAH, Heavy metals | Across the site, with emphasis on the areas adjacent to the AECs | Release of any hydrocarbon-based oils and fluids, metals from the vehicles | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water | Dermal contact, inhalation of dust/vapour, ingestion, surface water and groundwater migration. | Current residents, future residents, future workers, neighbouring residents, and construction personnel involved in the development of the site | Complete |
| | | | | | | | Groundwater | Complete |
| Historical usage of pesticides onsite and adjacent properties | TRH, BTEXN, PAH, OCP, OPP, Heavy metals | Across the site, with emphasis on the areas adjacent to the AECs | Use of pesticides for landscaping/land management activities | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water | Dermal contact, inhalation of dust/vapour, ingestion, surface water and groundwater migration. | Current residents, future residents, future workers, neighbouring residents, and construction personnel involved in the development of the site | Complete |
| | | | | | | | Groundwater | Complete |
| Runoff from the septic effluent irrigation system | TRH, BTEXN, PAH, Heavy metals. Microbial contamination | Across the site, with emphasis on the areas adjacent to the AECs | Septic effluent irrigation system presents on site | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water | Dermal contact, inhalation of dust/vapour, ingestion, surface water and groundwater migration. | Current residents, future residents, future workers, neighbouring residents, and construction personnel involved in the development of the site | Complete |
| | | | | | | | Groundwater | Complete |

Table 3. Amended Conceptual Site Model

K2 Consulting Group

Stage 2 - Environment Site Investigation

515 Crookwell Road, Kingsdale NSW 2580

К2

| Source | Contaminants of Potential Concern (CoPC) | Affected Areas | Primary Release Mechanism | Secondary Release Mechanism | Potential Impacted Media | Exposure Pathways | Potential receptors* | The Potential risk of Complete exposure pathway |
|---|---|--|--|--|---|--|--|---|
| Buildings onsite | PCB, Metals especially lead in paints, asbestos | Across the site, with emphasis on the areas adjacent to the building structures | Building material used on-site during construction | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water | Dermal contact, inhalation of dust/vapour, ingestion, surface water and groundwater migration. | Current residents, future residents, future workers, neighbouring residents, and construction personnel involved in the development of the site | Complete |
| | | | | | | | Groundwater | Complete |
| Above-ground fuel storage onsite | TRH, BTEXN, PAH, Heavy metals | Across the site, with emphasis on the areas adjacent to the AECs | Release of any hydrocarbon-based oils and fluids from the storage tanks | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water | Dermal contact, inhalation of dust/vapour, ingestion, surface water and groundwater migration. | Current residents, future residents, future workers, neighbouring residents, and construction personnel involved in the development of the site | Complete |
| | | | | | | | Groundwater | Complete |
| Stockpiles of demolished construction waste materials onsite | TRH, BTEXN, PAH, Heavy metals, asbestos. | Across the site, with emphasis on the areas adjacent to the AECs | Release of contaminants from the materials onto the soils | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water | Dermal contact, inhalation of dust/vapour, ingestion, surface water and groundwater migration. | Current residents, future residents, future workers, neighbouring residents, and construction personnel involved in the development of the site | Complete |
| | | | | | | | Groundwater | Complete |
| Adjacent sites – Goulburn timber works are located upstream of the site | Heavy metals in particular Chromated copper arsenate | Across the site | Potential wood treatment activities | Leaching and migration of contaminants via surface runoff, rainwater infiltration during historical land use, or disturbance during future development | Soil, groundwater, and surface water | Dermal contact, inhalation of dust/vapour, ingestion, surface water and groundwater migration. | Current residents, future residents, future workers, neighbouring residents, and construction personnel involved in the development of the site | Complete |
| | | | | | | | Groundwater | Complete |

Note: *The proposed land use for large rural residential development may include continuing use as sheep graziers in parts of the subdivided lots.

515 Crookwell Road, Kingsdale NSW 2580

8. Field Investigation Methodology

8.1. Soil Investigation

A total of nine (9) boreholes were drilled with the assistance of a hand auger for the top 0.2 m BGL and an excavator-mounted solid flight auger was used for the deeper samples. The sampling locations were based on a judgemental sampling pattern based on review information from the previous PSI report and site walkover inspection. Twenty (20) primary and one (1) intra-laboratory duplicate soil samples were collected and analysed for the CoPCs shown in **Table 3**. In addition, two (2) surface soil samples were collected and analysed for the CoPC. All samples were analysed at Eurofins |MGT (Eurofins), an accredited laboratory by the National Association of Testing Authorities (NATA), Australia.

Generally, soil samples were collected from 0.0 m - 0.2 m BGL in the topsoil and underneath natural soils below or from soils where apparent contamination or change in the soil profile was noted. Natural soils (Silty clay) were generally encountered at varying depths at the boreholes between 0.2 m BGL to 0.7 m BGL. No refusal was encountered in the boreholes undertaken. Ground conditions encountered during the site investigation are generally consistent with the information reviewed as part of the PSI.

Borehole logs were prepared as per the Australian Standard Geotechnical Site Investigations AS 1726-1993, presented in **Appendix III**. Field observations and visual soil indicators such as staining, odour, and discolouration, were considered during the collection of samples and are recorded in the soil bore logs **(Appendix III)**. No Photoionization Detector (PID) readings were taken as no indications such as odour and staining were observed during drilling. There was no gross contamination observed at the surface soil during the site inspection.

A Dial Before You Dig (DBYD) was undertaken to ascertain the services underground and finalise the sampling plans accordingly. Several underground water pipes are reported to traverse through the site and hence hand auguring to 0.2 m BGL depth to avoid pipe cutting prior to the mechanical auger. No underground utilities were damaged during the investigation.

Sampling Procedures

Soil samples were collected using appropriate personal protective equipment (PPE) including wearing disposable nitrile gloves, which were changed between each sample. Soil samples marked for chemical analysis were carefully placed in glass jars supplied by the laboratory. The jars were filled with soil samples to minimise any headspace.

Approximately 30 g - 50 g of soils were placed in zip lock bags for asbestos analysis (presence/absence method).

All field observations were noted in the field sheet using the chain of custody (COC) including, unique sample identification, sample description, sampling coordinates, soil profiles, and borehole numbers (appendix V).



Sample Transportation

The jars were placed in an esky with chilled ice for sample preservation and transportation. The field forms were completed, and the samples were then transferred to the laboratories under (COC) forms.

All samples will be stored in the laboratories for a specified period following the receipt of samples.

Decontamination Procedures

The sampling tools were decontaminated with Decon 90 detergent spray and rinsed with deionised water to ensure no cross-contamination occurs from other sampling locations. This decontamination procedure was followed between the sampling locations within the site. Any excess soils collected during the investigation were used to backfill the borehole and reinstated the ground. No soils from the sampling program were taken off-site for disposal.

8.2. Laboratory Analysis

Chemical Analysis

A total of twenty (20) primary soil samples from test boreholes and two (2) surface samples were collected during field investigations and sent to Eurofins for analysis of the CoPC.

In addition, one (1) blind intra-laboratory duplicate sample (ST-01-1492-BR1) was sent to Eurofins for QA/QC purposes.

Asbestos Analysis

Four (4) primary and one (1) blind duplicate soil samples were sent to Australian Safer Environment and Technology (ASET) for analysis of asbestos in soils (presence/absence method). One (1) fibrous cement sheet sample collected from a debris stockpile was also sent to ASET for analysis of asbestos. The samples were tested for the presence/absence of asbestos in soils (AS 4964-2004 method).

Additional Analysis

One (1) sample (Sample ID: ST-01-1492-BH08- 0.4m) was analysed for % Clay, pH, Conductivity, and Cation Exchange Capacity (CEC) by Eurofins for the assessment of site – specific EILs.

9. SITE ASSESSMENT CRITERIA

9.1. Soil Assessment Criteria

The adopted site assessment criteria (SAC) used in this investigation are as per the Assessment of Site Contamination, National Environment Protection (Assessment of Site Contamination) Measure (1999 as amended 2013).

9.1.1. Adopted site assessment criteria (SAC)

Based on the current and the proposed land use (sub-division into 24 low-density residential rural allotments), health investigation level (HIL) A - Residential land use with garden/accessible soil was considered as the Tier 1 screening criteria relevant to the proposed development.

Health Screening Levels (HSLs) were established for specific petroleum hydrocarbon contaminations to assess the human health risk from vapour inhalation and direct contact pathways. The HSLs is a site-specific depending on the physio-chemical properties of subsurface soil at the site, generally the soil at the site is characterised as Clay (clay, clay loam, and silt loam) and are summarised in the SAC, however values for sand is used here as a conservative criteria in **Table 4**.

| Analytes | Health Investigation | | eening Levels ential (A) ² Direct Contact | Management Limits (A) Fine soils (mg/kg) | |
|--|-------------------------|----------------------|--|--|--|
| | Levels (A) ¹ | (mg/kg) ³ | (mg/kg) | | |
| Arsenic (total) | 100 | - | - | - | |
| Cadmium | 20 | - | - | - | |
| Chromium (Total) | 100 | - | - | - | |
| Copper | 7000 | - | - | - | |
| Lead | 300 | - | - | - | |
| Mercury (inorganic) | 200 | - | - | - | |
| Nickel | 400 | - | - | - | |
| Zinc | 8000 | - | - | - | |
| Polycyclic aromatic hydrocarbons (PAHs) | 300 | - | - | - | |
| Carcinogenic PAHs (As BaP TEQ) | 3 | - | - | - | |
| Phenols | 3000 | - | - | - | |
| DDT+DDE+DDD | 260 | - | - | - | |
| Aldrin and Dieldrin | 7 | - | - | - | |
| Chlordane | 50 | - | - | - | |
| Endosulfan | 300 | - | - | - | |
| Endrin | 10 | - | - | - | |
| Heptachlor | 7 | - | - | - | |
| Hexachlorobenzene | 10 | - | - | - | |
| Methoxychlor | 400 | - | - | - | |
| Chlorpyrifos | 170 | - | - | - | |
| Benzene | - | 0.6 | 100 | - | |
| Toluene | - | 190 | 14000 | - | |
| Ethyl Benzene | - | NL | 4500 | - | |
| Xylene | - | 45 | 12000 | - | |

Table 4. Site Assessment Criteria – HIL-A



| - | 3 | 1400 | - |
|---|-----------------------|-------|---|
| - | 50 | 4400 | 800 |
| - | 130 | 3300 | 1000 |
| - | - | 4500 | 3500 |
| - | - | 6300 | 10000 |
| | - - - - - | - 130 | - 50 4400 - 130 3300 - - 4500 |

Notes:

1. HIL A - Residential with garden/accessible soil (homegrown produce <10% fruit and vegetable intake, (no poultry), also includes children's daycare centres, preschools, and primary schools.

2. Health Screening Levels (HSL) for surface soils 0 m to <1 m where applicable. NL - Not Limiting.

3. Clay (clay, clay loam and silt loam) criteria were adopted.

9.1.2. Management Limits

Schedule B1 of NEPM ASC 2013 includes 'management limits' to avoid or minimise any potential impacts from petroleum hydrocarbon fractions (F1, F2, F3 and F4) and referred indicate the maximum acceptable values above which a site-specific assessment is required. The management limits apply to all soil depths if any petroleum hydrocarbon contamination is identified at the site. Management limits should be considered to identify the presence of phase-separated hydrocarbons (light non-aqueous phase liquids - LNAPL), gross contamination, any potential fire or explosive risks and damage to buried infrastructure and aesthetics of the site.

Based on the current and future development, the Management Limits adopted during this investigation are 'Residential, parkland and public open spaces and are summarised in the SAC, see **Table 4**.

9.1.3. Ecological Investigation Levels (EILs)

Ecological Investigation Levels (EILs) and Added Contaminant Limits (ACLs), where appropriate, have been derived for selected metals and organic compounds and are applicable for assessing risk to terrestrial ecosystems (NEPC, 2013).

Site-specific EILs were calculated based on the equation as below:

EIL=ABC (ambient background concentration) + ACL (added contaminant limit)

The Interactive (Excel) Calculation Spreadsheet was used for calculating site-specific EIL for these contaminants. Input values included were based on site-specific testing undertaken on the sample (sample ID: ST-01-1492-BH08-0.4m):

- A low traffic volume in NSW;
- Conservative organic carbon content of 1% in the absence of site-specific test results;
- Clay content of 49%;
- A pH of 4.5; and
- A cation exchange capacity (CEC) of 19 meq/100g.

In addition, given the site history, the contamination was considered to be aged (i.e. not fresh). The EIL is presented in **Table 5**.

One (1) sample collected from BH2 at 0.2 m BGL (sample ID: ST-01-1492-BH02-0.2m) was analysed for heavy metals and is considered to be the background concentration for this EIL study. However, it is



recommended that additional samples are collected in the future to ascertain a statistical mean background reading.

| Analyte | ABC (mg/kg) | ACL | EIL (mg/kg) |
|--------------|---|------|-------------|
| Arsenic | 4.3 | 100 | 100 |
| Copper | 17 | 60 | 75 |
| Nickel | 30 | 260 | 290 |
| Chromium III | 81 | 400 | 750 |
| Lead | 22 | 1100 | 1100 |
| Zinc | 49 | 120 | 170 |
| Naphthalene | <lor< td=""><td>170</td><td>170</td></lor<> | 170 | 170 |
| DDT | <lor< td=""><td>180</td><td>180</td></lor<> | 180 | 180 |

Table 5. Site Assessment Criteria -Ecological Investigation Levels

9.1.4. Asbestos in soils

Asbestos in soils was analysed using the Australian Standard AS 4964-2004 (Method for the qualitative identification of asbestos in bulk samples) by a NATA accredited laboratory. The presence of asbestos was used as an indication to assess the soils for any risks from asbestos. If any samples were identified to be positive or if any Asbestos Containing Material (ACM) is observed in soils, a detailed asbestos investigation is recommended.

9.1.5. Acceptable statistical analysis

The soils with contaminant concentration that meets the following criteria will be considered acceptable:

- The maximum concentration of analytes in all samples meet the adopted acceptance criteria; or
- The 95% UCL average concentration of each contaminant is below the adopted acceptance criteria; and
- No individual exceedance is greater than 2.5 times the acceptance criteria.

A location will be a 'hot spot' and requires further management, including additional assessment and remediation if:

- The concentration of a contaminant is greater than 2.5 times the acceptable adopted criteria; and
- The 95% UCL average concentration is above the adopted acceptance criteria

10. RESULTS AND DISCUSSION

10.1. Field Observations

In general, fill material was observed at boreholes BH1, BH3, BH7 and BH8 to a maximum depth of 0.7 m BGL. The fill materials comprised of road base and gravels which appeared to have been imported from construction demolished waste material for the construction of access roads. Natural soils were encountered at varying depths at the boreholes investigated, which comprised silty clay. In the remaining boreholes, organic-rich topsoil was encountered at 0.0 m - 0.2 m BGL. No groundwater was encountered in the boreholes during sampling. Please refer to the bore logs for the depth of fill and natural soils at each test location.

10.2. Discussion of Analytical Results

A summary of laboratory results and chain of custody is provided in QA/QC Laboratory certificates are presented in **Appendix IV**.

Metals /Metalloids

The concentration of heavy metals (Arsenic, Cadmium, Copper, Lead, Nickel, Mercury, and Zinc) was below the adopted SAC for HIL-A except Chromium:

Chromium:

- A total of twelve (12) out of Twenty (20) primary samples exceeded the adopted SAC of HIL-A for the total chromium (100 mg/kg);
- No sample concentration exceeded the site adopted EIL concentration of 750 mg/kg for chromium;
- The concentration of chromium at borehole BH01 at 1.0 m BGL (sample ID: ST-01-1492-BH01 (1.0m)) was recorded as 250 mg/kg, however, did not exceed the 250 % of SAC, hence is not considered as a hotspot;
- A ProUCL statistical analysis undertaken on the samples indicated the student-t UCL of 139 mg/kg, which is above the HIL-A of 100 mg/kg (Refer to **Appendix VI**);

The soil sample exceeding the adopted SAC of HIL-A (100 mg/kg) for the concentration of total chromium is presented in **Table 6** below.

Furthermore, an ASLP analysis was undertaken on eight (8) samples and the result indicated in **Table 6**. The results of the ASLP analysis indicated the following:

- Hexavalent chromium was detected above the LOR (0.005 mg/L) in four (4) of the eight (8) samples analysed. The deepest soil sample analysed was collected at 0.4 m BGL (sample IDs-ST-01-1492-BH02-0.4m and ST-01-1492-BH04-0.4m), which indicates detection of Hexavalent and Trivalent chromium considered as evident leaching of chromium (VI) from the surface soils;
- Trivalent chromium was observed above the LOR (0.005 mg/L) in six (6) out of the eight (8) samples analyses. The deepest sample analysed was collected from 0.4 m BGL (sample ID- ST- 01-1492-BH02-0.4m, ST-01-1492-BH04-0.4m) which indicates potential leaching of chromium (III) from the soils.

| Borehole sample ID | Depth (m) | HIL-A | EIL | Chromium concentration (mg/kg) | ASLP concentration Chromium- hexavalent (mg/L) | ASLP concentration Chromium- trivalent (mg/L) | |
|-----------------------|--------------|-------|---------|--------------------------------------|--|---|---|
| | | mg/kg | mg/kg | | LOR 0.005 mg/L | LOR 0.005 mg/L | |
| ST-01-1492- | 0.2 | | | 190 | <0.005 | 0.35 | |
| BH01 | 0.7 | | | 150 | - | - | |
| DIIUI | 1.0 | | | 250 | <0.005 | <0.05 | |
| ST-01-1492- BH02 | 0.4 | | 100 750 | 110 | 0.010 | 0.18 | |
| ST-01-1492- | 0.2 | | | 140 | <0.005 | 0.16 | |
| BH03 | 0.5 | | | | 150 | - | - |
| ST-01-1492- | 0.2 | 100 | | 170 | - | - | |
| BH04 | 0.4 | | | 110 | 0.011 | 0.20 | |
| ST-01-1492- BH08 | 0.2 | | | 160 | 0.014 | 0.11 | |
| ST-01-1492- | 0.2 | | | 130 | 0.016 | 0.044 | |
| BH11 | 0.4 | | | 190 | - | - | |
| ST-01-1492- SS02 | 0.0 | | | 140 | <0.005 | <0.05 | |

Table 6. Summary of Chromium exceedance and ASLP concentration

TRH/BTEX

The concentrations of TRH/BTEX were below the laboratory Limit of reporting (LOR), the adopted SAC and the management limits.

<u> PAH</u>

The concentrations of all PAH were below the laboratory LOR and hence were below the adopted SAC and the management limits.

OCP/OPPs

The concentrations of all OCP/OPPs were below the laboratory LOR and the adopted SAC.

<u>Asbestos</u>

No ACM fragments were observed on-site during the site walkover or the soil drilling program. No asbestos was detected in any of the soil samples presented to the laboratories for analysis. Based on field observation and laboratory analysis, it can be concluded that no asbestos was detected in the investigated area. If any fragments or any asbestos in other forms are detected in the soils onsite all works should be ceased and the unexpected finds procedure as per **section 13** shall be implemented immediately.



11. DATA QUALITY INDICATORS ASSESSMENT

11.1. Precision

11.1.1. Duplicate samples

Blind duplicate samples were used to identify any variation in analyte concentration from samples collected from the same sampling point and ensure the repeatability of the laboratory's analysis method. A split duplicate sample was collected to determine the analytical proficiency of the laboratories.

The acceptance criteria for quality control samples as stipulated in AS4482.1-2005 indicates that a 30-50% range of the mean concentration of the analyte (RPD) is acceptable with the below criteria adopted for this purpose:

- RPD 30% for organics and RPD 50% for inorganics if concentration greater than or equal to 10x the laboratory Detection Limit (LOR);
- No limit if the primary and duplicate concentration is less than 10 x the LOR; and
- If both sample values are less than the LOR, the RPD is not calculated

A summary of the RPD between the primary sample (ST-01-1492-BH08 (0.2m)) and the duplicate sample (ST-01-1492-BR1) is provided in Table 7 below. No asbestos was detected in the primary and blind duplicate samples.

The surrogate spikes undertaken by the laboratory for the contaminants of potential concern meet the control limits of 50-150%. A review of the holding times of the analytes indicated that all samples were provided to the laboratory under suitable cold chain conditions and within the holding times prescribed. The RPDs and the lab comments indicate that sample collection and handling have been undertaken in accordance with the acceptable limits and no anomalies were detected. Standard analytical methods used during this investigation were accredited by NATA. Eurofins Laboratory was used as a primary laboratory for chemical analysis. ASET was used as the primary laboratory for asbestos analysis in the soil samples. All chain of custody and field documentation was reviewed. The samples were collected by an experienced field consultant and soil profiles and other observations were noted during the investigation.

As per NSW EPA (2020) Contaminated Land Guidelines - Consultants Reporting on Contaminated Land, One (1) intra-lab duplicate sample should be collected for every ten (10) primary samples and one (1) inter-lab sample should be collected for every twenty (20) samples , however in this investigation this criteria was not met as the soil sampling program planned was a preliminary and a limited assessment. Future investigations will be designed to meet this criteria.

The analysis of the QA/QC program indicates that the data obtained from this investigation undertaken by K2 Consulting Group can be considered reliable and representative of the soil conditions on-site during the time of sampling.

| | | | mples | | |
|------------------|-----|----------------------------|----------------|------|---------|
| Analyte | LOR | ST-01-1492- BH08 (0.2m) | ST-01-1492-BR1 | RPD% | DQI met |
| Arsenic | 2 | 30 | 18 | 50 | Yes |
| Cadmium | 0.4 | <0.4 | < 0.4 | NA | Yes |
| Chromium (total) | 5 | 160 | 130 | 21 | Yes |
| Copper | 5 | 14 | 12 | 15 | Yes |
| Lead | 5 | 31 | 28 | 10 | Yes |
| Mercury | 0.1 | <0.1 | <0.1 | NA | Yes |
| Nickel | 5 | 11 | 10 | 10 | Yes |
| Zinc | 5 | 21 | 26 | 21 | Yes |
| Benzene | 0.1 | <0.1 | <0.1 | NA | Yes |
| Toluene | 0.1 | <0.1 | <0.1 | NA | Yes |
| Ethylbenzene | 0.1 | <0.1 | <0.1 | NA | Yes |
| Xylene | 0.3 | <0.3 | <0.3 | NA | Yes |
| Benzo(a)pyrene | 0.5 | <0.5 | <0.5 | NA | Yes |
| Total PAH | 0.5 | <0.5 | <0.5 | NA | Yes |
| TRH C6-C10 | 20 | <20 | <20 | NA | Yes |
| TRH C10-C16 | 50 | <50 | <50 | NA | Yes |
| TRH C16-C34 | 100 | <100 | 100 | NA | Yes |
| TRH C34-C40 | 100 | <100 | <100 | NA | Yes |

Table 7. RPD comparison between primary sample and Blind Duplicate sample

NA- Analyte concentrations below LOR and hence no RPD was calculated



12. CONCLUSIONS

The below discussion is based on a site walkover inspection, a review of publicly available information, a review of previously available reports and the laboratory results from the soil samples collected during the investigation.

- Among the twenty (20) soil samples analysed for various contaminants of concern, twelve (12) soil samples exceeded the site assessment criteria (HIL-A) for total chromium. The ASLP leaching analysis undertaken in eight (8) representative samples indicated there is a potential for both trivalent and hexavalent chromium to leach from the soil matrix;
- Statical analysis UCL using ProUCL analysis for total chromium was undertaken on twenty (20) results and the 95 % UCL Student-t values were 139 mg/kg which exceeds the HIL A criteria of 100 mg/kg;
- No asbestos was detected in any of the soil samples analysed;
- One (1) fibrous cement sheet sample collected from a construction debris stockpile did not record the presence of asbestos;
- Data quality assessment undertaken on the samples indicates that the samples and the field procedures met the Data Quality Indicators according to Eurofins Laboratory Quality Control acceptance criteria;
- RPDs between the primary sample (ST-01-1492-BH08 (0.2m)) and duplicate sample (ST-01-1492-BR1) were calculated, and it is noted that the RPDs of these samples were below the allowed criteria; and
- The laboratory analytical procedures met the laboratory Data Quality Indicators and adopted criteria.

K2 Consulting Group was advised that the proposed development at the site involves a twenty-four (24) lot rural residential subdivision and the construction of associated infrastructure such as roads and utilities. The existing structures at the site such as the residential buildings, sheds and other infrastructure will be demolished and disposed off-site to assist in proposed development. Consequently, require further investigation both pre and post-demolition of the existing structures.

K2 has been advised that cut and fill earth works may be undertaken to level ground at the site. K2 Recommends further sampling the recommended sampling density for site characterisation as per NSW EPA (2022) prior to moving soil on-site and/or transported off-site. Based on the site history review and site walkover, it is considered that there is a moderate to high potential for site contamination from one or more of the identified potential contamination sources (see Section 7) and it is concluded that the environmental and human health risk is high. This report does not warrant the absence of contamination at the remaining area at the site._



13. RECOMMENDATIONS

13.1. Identified Data Gaps

K2 Consulting recommends the following data gaps are addressed to assess the suitability of the site for the proposed development:

- The site investigation is limited only to AECs identified in the previous PSI undertaken by CivPlan. Consistent with the CivPlan, K2 recommends additional investigation of the remainder of the site for any contamination due to agricultural land use activities and the presence of fill materials;
- If any unexpected finds-including but not limited to foreign materials including building materials, asbestos, materials buried under the surface of the soils, hydrocarbon-based materials or unpleasant fill materials are encountered on_site during the development works, all works shall cease, and the contaminated land consultant shall be contacted immediately for further advice;
- Both hexavalent and trivalent chromium has a potential to leach from the soil matrix as shown in elevated detections in the deeper soil samples (BH02/0.4 and BH4/0.4) as well as in the ASLP test results. Groundwater assessment is recommended to ensure that the groundwater is safe for the present and future use of the site. The site inspection identified on-site existing groundwater extraction bores, the K2 recommends testing for the exiting bores and further investigation of groundwater contamination using additional monitoring bores installed at strategic locations and monitoring for a period of time;
- Sampling and analysis of surface water from surface water dams across the site. This will assist in the dam decommissioning works, where the soils and sediments can then be classified for future management;
- A surface water dam dewatering and decommissioning plan is recommended to be prepared and implemented before the commencement of earth works;
- Investigate areas around the sewage effluent irrigation area for microbial and other potential contaminants;
- Undertake a detailed desktop study including but not limited to the activities on-site and neighbouring sites, the search of chemical storage register, and groundwater extraction wells.

Ecological Investigation Levels

The concentration of chromium in the soil samples collected was below the site-specific derived EIL of 750 mg/kg. As per NEPM schedule B5b, all EILs only apply to soil to a depth of 2 m BGL. Current investigations were undertaken to a depth of 1 m BGL. It is recommended that an EIL assessment is undertaken in soil profiles between 1 to 2 m BGL to address the data gap.

Sampling Analysis and Quality Plan (SAQP)

A Sampling Analysis and Quality Plan is recommended to be prepared as the next step. This SAQP will capture the requirements of the future investigation works, address data gaps and define the scope and the extent of the future environmental investigations on site.

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14. LIMITATIONS

This report has been prepared for use by the Client who has commissioned the works in accordance with the project brief only and has been based on information provided by the client. The advice herein relates only to this project and all results, conclusions, and recommendations made should be reviewed by a competent and experienced person with experience in environmental and occupational hygiene investigations, before being used for any other purpose.

K2 Environmental Services Pty Ltd (K2) accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced or amended in any way without prior approval by the client or K2 and should not be relied upon by any other party, who should make their own independent inquiries. This report does not provide a complete assessment of the status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, K2 reserves the right to review the report in the context of the additional information. When interpreting reports from other parties, K2 assumes that works undertaken were of a high standard. K2 does not take responsibility for the works or quality of reports produced by other parties involved in the project at any time.

The report is reviewed and authorised by Dawit Bekele (PhD, PE) (Certified Site Contamination Specialist CEnvP-SC (ID. SC41149). Dawit has provided an expert review of this report based on the information and data provided by K2. K2's professional opinions are based upon its professional judgment, experience, training, and results from analytical data (if applicable). In some cases, further testing and analysis may be required, thus producing different results and/or opinions. K2 has limited investigation to the scope agreed upon with its client. It should be noted only the subject area outlined in this report was inspected and adjacent areas may contain asbestos. K2 reserves the right to retract, review and amend this report if an omission, error, or further investigation is required that may affect the conclusions in the report.

Unless otherwise agreed in writing and signed by both parties, K2's total aggregate liability will not exceed the total consulting fees paid by the client in relation to this Proposal. K2 has used a degree of care and skill ordinarily exercised in similar investigations by a reputable member of the Environmental Industry within Australia. No other warranty, expressed or implied, is made or intended.

15. REFERENCES

- National Environment Protection Council (NEPC), (2013). National Environment Protection (Assessment of Site Contamination) Measure 1999, NEPM, Canberra. Schedule B2: Guideline On-site Characterisation.
- NSW EPA (1997). Contaminated Land Management Act 1997.
- NSW Environmental Protection Authority (2014). Waste Classification Guidelines.
- NSW Government (2016). NSW Work Health and Safety Regulations.
- NSW EPA (2020) Contaminated Land Guidelines Consultants Reporting on Contaminated Land.
 NSW EPA (2022) Contaminated land sampling design guidelines , part 1 application.
- Australian Standard 4482.1-2005: Guide to the Investigation and Sampling of Potentially Contaminated Soil Part 1: Non-volatile and semi-volatile compounds, Part 2: Volatile compounds



Appendix I

Aerial Photographs





Figure 1. Aerial photograph of the subject areas on site - Areas of Environmental Concern (AEC) identified by the PSI (Civplan PSI 2017).



Figure 2. Aerial photograph of the subject site with approximate borehole locations and chromium exceedance.

K2 Consulting Group

Stage 2 - Environmental Site Investigation

Appendix II

Photographs





Photo.1. Representative photo of the imported fill and soil profile at borehole 1 (on the driveway).



Photo.3. Representative photo of the imported fill and soil profile at borehole 8.

515 Crookwell Road, Kingsdale NSW 2580



Photo.2. Representative photo of soil profile at borehole 3.



Photo.4. Representative photo of the soil profile observed at borehole 4.





Photo.5. Representative photo of storage in the shed at AEC 2.



Photo.7. Representative photo of IBC scattered on site.



Photo.6. Representative photo of storage of equipment and chemicals in the shed at AEC 2.



Photo.8. Representative photo of rubbish pile observed on the site.





Photo.9. Representative photo of agricultural equipment on site.



Photo.11. Representative photo of soil profile at the cattle loading station.

515 Crookwell Road, Kingsdale NSW 2580



Photo.10. Representative photo of colourbond shed present on site.



Photo.12. Representative photo of unidentified chemical inside an IBC observed on the property.



Photo.13. Representative photo of above ground fuel storage tank observed on site.

515 Crookwell Road, Kingsdale NSW 2580



Photo.14. Representative photo of above ground fuel storage tank observed on site.

515 Crookwell Road, Kingsdale NSW 2580

Appendix III

Soil Bore Logs



| K2 CONS | ULTING | GROUP |
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|---------|--------|-------|

PROJECT NUMBER ST-01-1492 **SAMPLING DATE 27/06/2022** COORDINATES 34°42.698' S 149°42.155' E PROJECT NAME Environmental Site Investigatior SAMPLING CONTRACTOR Taralga Earth Trembl CLIENT Alimaco Pty Ltd SURFACE ELEVATION 681m AHD **OPERATOR** Terry ADDRESS 515 Crookwell Road, Kingsdale NSW SAMPLING EQUIPMENT Excavator/Hand Auger LOGGED BY Sirish Baniya 2580 CHECKED BY Kannan Kaliappan COMMENTS Is Analysed? **Graphic Log** Depth (m) Additional Observations Samples **Material Description** ST-01-1492-BH01 (0.2m) FILL. Silty CLAY with minor gravels. Dark to light brown. \overline{Y} ST-01-1492-BH01-ASB1(0.2 Dry. Loose. FILL. Silty CLAY with minor gravels. Dark to light brown. Dry. Loose. 0.5 ST-01-1492-BH01 (0.7m) ST-01-1492-BH01 (1.0m) ST-01-1492-BH01-ASB1' NATURAL. Silty CLAY with minor gravels. Light brown to grey. Stiff. Slightly moist. (1.0m) Termination Depth at:1.0m - 1.5 2 - 2.5 3 - 3.5 4 4.5 5 - 5.5



K2 CONSULTING GROUP

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PROJECT NUMBER ST-01-1492 **SAMPLING DATE 27/06/2022** COORDINATES 34°42.698' S 149°42.155' E PROJECT NAME Environmental Site Investigation SAMPLING CONTRACTOR Taralga Earth Trembl CLIENT Alimaco Pty Ltd **OPERATOR** Terry SURFACE ELEVATION 681m AHD ADDRESS 515 Crookwell Road, Kingsdale SAMPLING EQUIPMENT Excavator/Hand Auger LOGGED BY Sirish Baniya NSW 2580 CHECKED BY Kannan Kaliappan COMMENTS Is Analysed? **Graphic Log** Depth (m) Additional Observations Samples **Material Description** ST-01-1492-BH02 (0.2m) TOPSOIL. Silty CLAY. Dark brown. Slightly moist. Organic. Roots observed at $\overline{\mathbf{Y}}$ ST-01-1492-BH02-ASB2(0 0-0.2m BGL NATURAL. Silty CLAY. Light brown to grey. Slightly ST-01-1492-BH02 (0.4m) ST-01-1492-BH02-ASB2 moist. (0.4m) Termination Depth at:0.4m

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| TEST | PIT | LOGS | BH03 | |
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| CLIENT Alimaco F | Environmental Site Investigatio Pty Ltd | r SA OP | MPLING ERATO | CONTRACTOR Taralga Earth Trembl R Terry CEQUIPMENT Excavator/Hand Auger | SURFACE ELEVATION 689m AHD | | | | | | |
|---------------------------|---|--------------|-----------------|---|----------------------------|-------------------------|--|--|--|--|--|
| COMMENTS | | | | | | | | | | | |
| | | | | | | | | | | | |
| Depth (m) | Samples | ls Analysed? | Graphic Log | Material Descriptior | 1 | Additional Observations | | | | | |
| - | ST-01-1492-BH03 (0.2m) ST-01-1492-BH03-ASB3(0.2 ST-01-1492-BH03 (0.5m) ST-01-1492-BH03-ASB3' | M | | FILL. Silty CLAY. Red to brown. Loose. | Slightly moist. | | | | | | |
| 0.5 | <u>((0.5m)</u> | | | NATURAL. Silty CLAY. Very stiff. Orang Slightly moist. | ge-brown mottled. | | | | | | |
| - - - 1 - - | | | | Termination Depth at:0.7m | | | | | | | |
| - 1.5 - - | | | | | | | | | | | |
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| - 4.5 - | | | | | | | | | | | |
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| CLIENT Alimaco F | Environmental Site Investigatio Pty Ltd | r SA OP | MPLING | G DATE 27/06/2022 G CONTRACTOR Taralga Earth Trembl R Terry G EQUIPMENT Excavator/Hand Auger | SURFACE ELEVATION 692m AHD | | | | | |
|---------------------------|---|--------------|-------------|---|----------------------------|--|--|--|--|--|
| COMMENTS | | | | | | | | | | |
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Descriptio | n | Additional Observations | | | | |
| | ST-01-1492-BH04 (0.2m) ST-01-1492-BH04-ASB4(0.2r | \mathbb{N} | | TOPSOIL. Silty CLAY. Brown. Dry. Loc | | Organic. Roots observed at 0-0.2m BGL. | | | | |
| _ | ST-01-1492-BH04 (0.4m) ST-01-1492-BH04-ASB4' | | | NATURAL. Silty CLAY. Light brown to solightly moist. | grey. Loose. | | | | | |
| - 0.5 - - | \ <u>(0.4m)</u> | | | Termination Depth at:0.4m (Rock refus | al) | | | | | |
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| - 3.5 - - | | | | | | | | | | |
| - 4 | | | | | | | | | | |
| - - 4.5 - | | | | | | | | | | |
| - - - 5 - | | | | | | | | | | |
| - - - 5.5 - - | | | | | | | | | | |



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PROJECT NUMBER ST-01-1492 **SAMPLING DATE 27/06/2022** COORDINATES 34°42.659' S 149°42.077' E PROJECT NAME Environmental Site Investigatior SAMPLING CONTRACTOR Taralga Earth Trembl CLIENT Alimaco Pty Ltd SURFACE ELEVATION 748m AHD **OPERATOR** Terry ADDRESS 515 Crookwell Road, Kingsdale NSW SAMPLING EQUIPMENT Excavator/Hand Auger LOGGED BY Sirish Baniya 2580 CHECKED BY Kannan Kaliappan COMMENTS Is Analysed? Graphic Log Depth (m) Additional Observations Samples **Material Description** ST-01-1492-BH07 (0.2m) Compacted FILL. Silty CLAY with minor gravels. Light Organic. Roots observed at \overline{P} Brown. Dry. Loose. ST-01-1492-BH04-ASB7(0.2 0-0.2m BGL ST-01-1492-BH07 (0.4m) NATURAL. Silty CLAY. Yellow-orange mottled. Stiff. ST-01-1492-BH07-ASB7 Slightly moist. (0.4m) 0.5 Termination Depth at:0.4m 1 - 1.5 2 - 2.5 3 - 3.5 4 4.5 5 - 5.5



K2 CONSULTING GROUP

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| CLIENT Alimaco P | Environmental Site Investigation ty Ltd | r SA OP | MPLING | CONTRACTOR Taralga Earth Trembl | n Baniya | | | | | |
|-------------------------|---|--|--------------|--|---|--|--|--|--|--|
| COMMENTS | | | | | | | | | | |
| Depth (m) | Samples | onmental Site Investigatior SAMF d OPER ell Road, Kingsdale NSW SAMF Samples 01-1492-BH08 (0.2m) 01-1492-BH08 (0.2m) 01-1492-BH08 (0.4m) 01-1492-BH08 (0.4m) 01-1492-BH08 (0.4m) | Graphic Log | Material Description | Additional Observations | | | | | |
| _ | ST-01-1492-BH08 (0.2m) ST-01-1492-BH08-ASB8(0.2r | \mathbb{N} | \bigotimes | FILL. Silty CLAY with gravelly aggregates. Brown. Dry. Loose. | Organic. Roots observed at 0-0.2m BGL. | | | | | |
| | ST-01-1492-BH08 (0.4m) ST-01-1492-BH08-ASB8' | | | NATURAL. Silty CLAY. Orange-brown mottled. Very stiff. Slightly moist. | | | | | | |
| 0.5 | \ <u>(0.4m)</u> | | | Termination Depth at:0.4m | | | | | | |
| - 1 - | | | | | | | | | | |
| - 1.5 | | | | | | | | | | |
| - 2 | | | | | | | | | | |
| 2.5 | | | | | | | | | | |
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| - - - 4 - | | | | | | | | | | |
| - - - 4.5 - | | | | | | | | | | |
| - - - - 5 - | | | | | | | | | | |
| - - 5.5 | | | | | | | | | | |



K2 CONSULTING GROUP

PROJECT NUMBER ST-01-1492

SAMPLING DATE 27/06/2022 COORDINATES 34°42.752' S 149°42.090' E PROJECT NAME Environmental Site Investigatior SAMPLING CONTRACTOR Taralga Earth Trembl **OPERATOR** Terry SURFACE ELEVATION 686m AHD SAMPLING EQUIPMENT Excavator/Hand Auger LOGGED BY Sirish Baniya

CLIENT Alimaco Pty Ltd ADDRESS 515 Crookwell Road, Kingsdale NSW 2580

CHECKED BY Kannan Kaliappan

| COMMENTS | | | • | | |
|-----------|--|--------------|---|--|--|
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| | ST-01-1492-BH09 (0.2m) ST-01-1492-BH09-ASB9(0.2 | | { | TOPSOIL. Gravelly silty CLAY. Brown. Dry. Loose. | Oraganic. Roots observed at 0-0.2m BGL. |
| | | ľ . | | Termination Depth at:0.2m (Abandonment) | |
| 0.5 | | | | | |
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| 1 | | | | | |
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| 1.5 | | | | | |
| 1.0 | | | | | |
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| - 3 | | | | | |
| C C | | | | | |
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| - 3.5 | | | | | |
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| - 4 | | | | | |
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| - 4.5 | | | | | |
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| - 5 | | | | | |
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| | | | | | |
| 5.5 | | | | | |
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TEST PIT LOGS BH10

K2 CONSULTING GROUP

PROJECT NUMBER ST-01-1492

| SAMPLING DATE | 27/06/2022 |
|---------------|------------|

COORDINATES 34°42.446' S 149°41.571' E

PROJECT NAME Environmental Site Investigatior SAMPLING CONTRACTOR Taralga Earth Trembl

CLIENT Alimaco Pty Ltd ADDRESS 515 Crookwell Road, Kingsdale NSW SAMPLING EQUIPMENT Excavator/Hand Auger LOGGED BY Sirish Baniya 2580

OPERATOR Terry

SURFACE ELEVATION 678m AHD CHECKED BY Kannan Kaliappan

| COMMENTS | | | | | |
|---------------------------|--|--------------|-------------|---|---|
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Description | Additional Observations |
| | ST-01-1492-BH10 (0.2m) ST-01-1492-BH10-ASB10(0.2) | M | { { { | TOPSOIL. Silty CLAY. Brown. Moist. | Organic. Roots observed at 0-0.2m BGL. |
| - - - 0.5 - - | | | | Termination Depth at:0.2m (Abandonment) | |
| - - - | | | | | |
| - 1.5 - - | | | | | |
| -2 | | | | | |
| - 2.5 - - - | | | | | |
| - 3 - - - | | | | | |
| - 3.5 - - - | | | | | |
| | | | | | |
| - 4.5 - - - - | | | | | |
| 5 | | | | | |
| - 5.5 - - - | | | | | |



TEST PIT LOGS BH11

SAMPLING DATE 27/06/2022

COORDINATES 34°42.683' S 149°42.123' E

K2 CONSULTING GROUP

PROJECT NUMBER ST-01-1492

| CLIENT Alimaco | o Pty Ltd | r SAMPLING CONTRACTOR Taralga Earth Trembl OPERATOR Terry SAMPLING EQUIPMENT Excavator/Hand Auger CHECKED BY Kannan Kaliappan | | | | | | | | | | |
|----------------|---|--|-------------|---|----------------|---|--|--|--|--|--|--|
| COMMENTS | | | | | | | | | | | | |
| Depth (m) | Samples | Is Analysed? | Graphic Log | Material Descriptio | n | Additional Observations | | | | | | |
| _ | ST-01-1492-BH11 (0.2m) ST-01-1492-BH11-ASB11(0.2 | \mathbb{N} | | TOPSOIL. Silty CLAY. Brown. Moist. | | Organic. Roots observed at 0-0.2m BGL. | | | | | | |
| - | ST-01-1492-BH11 (0.4m) | | | NATURAL. Gravelly silty CLAY. Dark to Moist. | o light Brown. | | | | | | | |
| - 0.5 | | | | Termination Depth at:0.4m | | | | | | | | |
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| ' - _ | | | | | | | | | | | | |
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| - 1.5 | | | | | | | | | | | | |
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| - 2 | | | | | | | | | | | | |
| - | | | | | | | | | | | | |
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| - 2.5 | | | | | | | | | | | | |
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| - | | | | | | | | | | | | |
| - | | | | | | | | | | | | |
| - 3.5 | | | | | | | | | | | | |
| - | | | | | | | | | | | | |
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| - 4.5 - | | | | | | | | | | | | |
| - | | | | | | | | | | | | |
| - 5 | | | | | | | | | | | | |
| - | | | | | | | | | | | | |
| - | | | | | | | | | | | | |
| - 5.5 | | | | | | | | | | | | |
| - | | | | | | | | | | | | |
| - | | | | | | | | | | | | |

Appendix IV

Laboratory Results Summary

| | | | | | ١ | Vetals and | Metalloids | ; | | | AS | ilp | TRH | | | | | | | В | |
|--|----------------|-------------|--------------|-------------|----------------|----------------|--------------|------------------------|--------------|----------------|--------------|-------------|-------------|-------------|---------------------|-----------------------------------|---------------|----------------|---------|---------|--|
| | OUP | | Arsenic | Cadmium | Total Chromium | Copper | Lead | Mercury (inorganic) | Nickel | Zinc | Chromium III | Chromium VI | ТКН С6 - С9 | TRH C10-C14 | F1 ((C6-C10)- BTEX) | F2 (>C10-C16 less Naphthalene) | F3 (>C16-C34) | F4 (>C34-C40) | Benzene | Toluene | |
| | | LOR | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | 0.005 | 0.005 | 20 | 20 | 20 | 50 | 100 | 100 | 0.1 | 0.1 | |
| Sample ID HILA (Residential) | Depth | Sample Date | mg/kg 100 | mg/kg 20 | mg/kg 100 | mg/kg 7.000 | mg/kg 300 | mg/kg 200 | mg/kg 400 | mg/kg 8.000 | mg/L | mg/L | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | |
| HLA (Residential) | 1m-<2m | Clay | 100 | 20 | 100 | 7,000 | 500 | 200 | 400 | 8,000 | | | - | - | 60 | 330 | - | - | 0.8 | 560 | |
| ESL (Urban residential and public space) | | Clay | | | | | | | | | | | | | 180 | 120 | 1300 | 5600 | 65.0 | 105 | |
| EIL(Site specific) | | | 100 | | 750 | 75 | 1,100 | | 290 | 170 | | | | | | | | | | | |
| Management Limit ST-01-1492-BH01 | | 27.06.2022 | 2.2 | <0.4 | 190 | 27 | 9.1 | <0.1 | 100 | 48 | 0.35 | <0.005 | - <20 | - <20 | 800 <20 | 1000 <50 | 3,500 <100 | 10,000 <100 | <0.1 | <0.1 | |
| | 0.2 m | 27.06.2022 | 2.2 | <0.4 | | 21 | | <0.1 | 80 | 48 | 0.55 | <0.005 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH01 ST-01-1492-BH01 | 0.7 m 1.0 m | 27.06.2022 | <2 | <0.4 | 150 250 | 21 | 7.8 <5 | <0.1 | 120 | 68 | < 0.05 | - <0.005 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH02 | 0.2 m | 27.06.2022 | 4.3 | <0.4 | 81 | 17 | 22 | <0.1 | 30 | 49 | | <0.005 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH02 | 0.2 m | 27.06.2022 | 4.5 | <0.4 | 110 | 17 | 22 | <0.1 | 31 | 32 | 0.18 | 0.010 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH03 | 0.4 m | 27.06.2022 | 12 | <0.4 | 140 | 19 | 22 | <0.1 | 28 | 32 | 0.18 | <0.005 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH03 | 0.2 m | 27.06.2022 | 12 | <0.4 | 140 | 29 | 25 | <0.1 | 50 | 38 | - | <0.005 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH04 | 0.3 m | 27.06.2022 | <2 | <0.4 | 170 | 54 | 13 | <0.1 | 120 | 180 | | - | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH04 | 0.2 m | 27.06.2022 | <2 | <0.4 | 110 | 38 | <5 | <0.1 | 120 | 63 | 0.20 | 0.011 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH07 | 0.4 m | 27.06.2022 | 7.1 | <0.4 | 76 | 24 | 16 | <0.1 | 30 | 34 | - | 0.011 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH07 | 0.2 m | 27.06.2022 | 5.3 | <0.4 | 70 | 23 | 15 | <0.1 | 35 | 38 | | - | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH08 | 0.2 m | 27.06.2022 | 30 | <0.4 | 160 | 14 | 31 | <0.1 | 11 | 21 | 0.11 | 0.014 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH08 | 0.2 m | 27.06.2022 | 3.9 | <0.4 | 48 | 18 | 13 | <0.1 | 16 | 32 | - | - 0.014 | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH09 | 0.2 m | 27.06.2022 | 15 | <0.4 | 52 | 5.1 | 31 | <0.1 | 6.2 | 14 | - | - | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH10 | 0.2 m | 27.06.2022 | 6.9 | <0.4 | 32 | 5.7 | 19 | <0.1 | <5 | 31 | - | - | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH11 | 0.2 m | 27.06.2022 | 21 | <0.4 | 130 | 14 | 34 | <0.1 | 11 | 130 | 0.044 | 0.016 | <20 | <20 | <20 | <50 | 110 | <100 | <0.1 | <0.1 | |
| ST-01-1492-BH11 | 0.4 m | 27.06.2022 | 27 | <0.4 | 190 | 12 | 49 | <0.1 | 7.8 | 59 | - | - | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| ST-01-1492-SS01 | - | 27.06.2022 | 4.7 | <0.4 | 29 | 23 | 12 | <0.1 | 5.7 | 85 | - | - | <20 | <20 | <20 | <50 | 110 | <100 | <0.1 | <0.1 | |
| ST-01-1492-SS02 | - | 27.06.2022 | 10 | <0.4 | 140 | 38 | 37 | <0.1 | 62 | 220 | <0.05 | <0.005 | <100 | <100 | <100 | <250 | <500 | 710 | <0.5 | <0.5 | |
| ST-01-1492-SS03 | - | 27.06.2022 | 5 | <0.4 | 24 | 28 | 9.4 | <0.1 | 16 | 350 | - | - | <100 | <20 | <100 | <50 | <500 | 200 | <0.5 | <0.5 | |
| | | | | | | | | | | | | | | | | | | | | | |
| ST-01-1492-BR1 | 0.2 m | 27.06.2022 | 18 | <0.4 | 130 | 12 | 28 | <0.1 | 10 | 26 | - | - | <20 | <20 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | |
| | | | | | | 1 | | | | | | | | | | | | | | | |
| RPD1 (Duplicate) | | | 50 | 0 | 21 | 15 | 10 | 0 | 10 | 21 | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| UCL calculation | | | - | - | 139 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

Notes:

NAD- No Asbestos Detected

Site Acceptance Criteria - Low Density Residential - as per National Environment Protection (Assessment of Site Contamination) Measure - Schedule B1 and B2

| | | | TEX | | РАН | | | | | | | | | | | | | |
|--|--------|-------------|--------------|---------------|--------------|----------------|------------|-------------------|-----------------|------------------------|----------------------|-----------------------|----------|-----------------------|--------------|----------|-------------------------|-------------|
| K2 K2 CONSULTING GR | OUP | | Ethylbenzene | Total Xylenes | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(b,j)fluoranthene | Benzo(g,h,i)perylene | Benzo(k)fluoran thene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene |
| | | LOR | 0.1 | 0.3 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Sample ID HIL A (Residential) | 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 300 | mg/kg | mg/kg | mg/kg | mg/kg |
| HSLA (Residential) | 1m-<2m | Clay | NL | 130 | | | | | | | | | | | | | | 5 |
| ESL (Urban residential and public space) | | Clay | 125 | 45 | 170 | 0.7 | | | 1.4 | | | | | | | | | 170 |
| EIL(Site specific) Management Limit | | | | | 170 | 0.7 | | | | | | | | | | | | 170 |
| ST-01-1492-BH01 | 0.2 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH01 | 0.7 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH01 | 1.0 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH02 | 0.2 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH02 | 0.4 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH03 | 0.2 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH03 | 0.5 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH04 | 0.2 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH04 | 0.4 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH07 | 0.2 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH07 | 0.4 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH08 | 0.2 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH08 | 0.4 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH09 | 0.2 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH10 | 0.2 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH11 | 0.2 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-BH11 | 0.4 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-SS01 | - | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-SS02 | - | 27.06.2022 | <0.5 | <1.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| ST-01-1492-SS03 | - | 27.06.2022 | <0.5 | <1.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | | | | 1 | | | | | | | | | | | | |
| ST-01-1492-BR1 | 0.2 m | 27.06.2022 | <0.1 | <0.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | | | | | | | | | | | | | | | | |
| RPD1 (Duplicate) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UCL calculation | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Notes:

NAD- No Asbestos Detected

Site Acceptance Criteria - Low Density Residential - as per National Environment Protection (Assessment of Site Contamination) Mer

| Note: Note: <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="6">OCP</th><th></th><th>OPP</th><th>Asbestos</th></th<> | | | | | | | | OCP | | | | | | | OPP | Asbestos | |
|--|----------------------------|--------|-------------|--------------|--------|-------------|-----------------------------------|-------------|-------------------|-----------------|------------------|--------|------------|-------|--------------|---------------|-----|
| Image in the standImage | K2 K2 CONSULTING GR | OUP | | Phenanthrene | Pyrene | PAH (Total) | Carcinogenic PAHs as B(a)P TEQ | DDT+DDE+DDD | Aldrin & Dieldrin | Total Chlordane | Total Endosulfan | Endrin | Heptachlor | | Methoxychlor | Chlorpyriphos | (50 |
| nin A gender MA Medicationalindex | | | | | | | | | | | | | | | | | N |
| index and analysic subsindex and ana | | Depth | Sample Date | mg/kg | mg/kg | | 0. 0 | 0.0 | | 0. 0 | 0.0 | 0. 0 | | | | 5 | |
| Bind Disk Disk <thdisk< th=""> Disk Disk <thd< td=""><td></td><td>1m-<2m</td><td>Clay</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thd<></thdisk<> | | 1m-<2m | Clay | | | | | | | | | | | | | | |
| Management timeImagement timeImage | | | Clay | | | | | | | | | | | | | | |
| Shorthade bin | | | | | | - | | 180 | | | - | | - | | | | |
| Image Image <th< td=""><td>· · · · ·</td><td>0.2 m</td><td>27.06.2022</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.05</td><td><0.05</td><td><0.1</td><td><0.05</td><td><0.05</td><td><0.05</td><td><0.05</td><td><0.05</td><td><0.2</td><td>-</td></th<> | · · · · · | 0.2 m | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - |
| Short-MappendeIndZhoczyAuSubAu | | | | | | | | | | - | | | | | | | |
| StatistyStatist | | | | | | | | | - | | | | | | | | |
| Shortadda and and and and and and and and and | | | - | | | | | | - | | | | | | | | - |
| Short-1492-BMBShort- | | | | | | | | | | | | | | | | | |
| StalladeStallad | | - | | <0.5 | | | | | - | | | | | | | | - |
| Start | | | | | | | | | - | | | | | | | | |
| ST014928H4OHST0202OHST05ST05ST05ST05ST05ST05ST05ST05ST05ST05 | | 0.2 m | | <0.5 | <0.5 | <0.5 | | <0.05 | < 0.05 | | | | < 0.05 | <0.05 | | <0.2 | - |
| And <br< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></br<> | | | | | | | | | | | | | | | | | |
| And <br< td=""><td>ST-01-1492-BH07</td><td>0.2 m</td><td>27.06.2022</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.5</td><td><0.05</td><td><0.05</td><td><0.1</td><td><0.05</td><td><0.05</td><td><0.05</td><td><0.05</td><td><0.05</td><td><0.2</td><td>-</td></br<> | ST-01-1492-BH07 | 0.2 m | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - |
| Shore | ST-01-1492-BH07 | 0.4 m | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | |
| STO1492800ORORZO6202OROOR <td>ST-01-1492-BH08</td> <td>0.2 m</td> <td>27.06.2022</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> <td><0.05</td> <td><0.05</td> <td><0.1</td> <td><0.05</td> <td><0.05</td> <td><0.05</td> <td><0.05</td> <td><0.05</td> <td><0.2</td> <td>-</td> | ST-01-1492-BH08 | 0.2 m | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - |
| ST014928H10O.2 mO.2 m <td>ST-01-1492-BH08</td> <td>0.4 m</td> <td>27.06.2022</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> <td><0.05</td> <td><0.05</td> <td><0.1</td> <td><0.05</td> <td><0.05</td> <td><0.05</td> <td><0.05</td> <td><0.05</td> <td><0.2</td> <td></td> | ST-01-1492-BH08 | 0.4 m | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | |
| STO14928H1OLMD.MZO6.202A.M | ST-01-1492-BH09 | 0.2 m | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - |
| ST014928H10.4m27.06.2020.5m | ST-01-1492-BH10 | 0.2 m | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - |
| STOL 1492 SSO1 O P | ST-01-1492-BH11 | 0.2 m | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - |
| STOL | ST-01-1492-BH11 | 0.4 m | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | |
| ST-01-1492-SS03 Image: S | ST-01-1492-SS01 | - | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - |
| And | ST-01-1492-SS02 | - | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - |
| RPD1 (Duplicate) And And <td>ST-01-1492-SS03</td> <td>-</td> <td>27.06.2022</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> <td><0.5</td> <td><0.05</td> <td><0.05</td> <td><0.1</td> <td><0.05</td> <td><0.05</td> <td><0.05</td> <td><0.05</td> <td><0.05</td> <td><0.2</td> <td>-</td> | ST-01-1492-SS03 | - | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - |
| RPD1 (Duplicate) And And <td></td> <td></td> <td></td> <td></td> <td></td> <td>l</td> <td></td> <td>1</td> <td></td> <td></td> <td>l</td> <td>İ</td> <td>İ</td> <td></td> <td></td> <td></td> <td></td> | | | | | | l | | 1 | | | l | İ | İ | | | | |
| | ST-01-1492-BR1 | 0.2 m | 27.06.2022 | <0.5 | <0.5 | <0.5 | <0.5 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - |
| | | | 1 | | | | | | | | | | | | | | |
| UCL calculation | RPD1 (Duplicate) | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | UCL calculation | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Notes:

NAD- No Asbestos Detected

Site Acceptance Criteria - Low Density Residential - as per National Environment Protection (Assessment of Site Contamination) Mea

515 Crookwell Road, Kingsdale NSW 2580

Appendix V

Laboratory Reports



K2 Enviro Solutions Suite 1A, Level 2, 802 Pacific Highway Gordon NSW 2768





NATA Accredited Accreditation Number 1261 Site Number 18217

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

Attention:

Kannan Kaliappan

Report Project name Project ID Received Date 902467-S 515 CROOKWELL ROAD KINGSDALE NSW 2580 ST-01-1492 Jul 01, 2022

| Client Sample ID | | | ST-01-1492- BH01 (0.2M) | ST-01-1492- BH01 (0.7M) | ST-01-1492- BH01 (1.0M) | ST-01-1492- BH02 (0.2M) |
|---|-----|-------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001794 | S22-JI0001795 | S22-JI0001796 | S22-JI0001797 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| BTEX | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 116 | 88 | 78 | 82 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | - | - | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | - | - | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | - | - | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |



| Client Sample ID | | | ST-01-1492- BH01 (0.2M) | ST-01-1492- BH01 (0.7M) | ST-01-1492- BH01 (1.0M) | ST-01-1492- BH02 (0.2M) |
|-------------------------------------|------|-------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001794 | S22-JI0001795 | S22-JI0001796 | S22-JI0001797 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | · · | , i | | · · |
| Polycyclic Aromatic Hydrocarbons | | 0 | | | | |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | - | - | - | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 65 | 56 | 57 | 71 |
| p-Terphenyl-d14 (surr.) | 1 | % | 64 | 54 | 90 | 95 |
| Organochlorine Pesticides | 1 | _ | | | | |
| 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 | - | - | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | - | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | - | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 89 | 101 | 80 | 93 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 76 | 103 | 84 | 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 |



| Client Sample ID | | | ST-01-1492- BH01 (0.2M) | ST-01-1492- BH01 (0.7M) | ST-01-1492- BH01 (1.0M) | ST-01-1492- BH02 (0.2M) |
|-----------------------------|-----|-------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001794 | S22-JI0001795 | S22-JI0001796 | S22-JI0001797 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Organophosphorus Pesticides | ł | | | | | |
| 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 | % | 81 | 66 | 52 | 88 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 2.2 | 2.2 | < 2 | 4.3 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 190 | 150 | 250 | 81 |
| Copper | 5 | mg/kg | 27 | 21 | 23 | 17 |
| Lead | 5 | mg/kg | 9.1 | 7.8 | < 5 | 22 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 100 | 80 | 120 | 30 |
| Zinc | 5 | mg/kg | 48 | 43 | 68 | 49 |
| % Moisture | 1 | % | 16 | 14 | 16 | 19 |

| Client Sample ID | | | ST-01-1492- BH02 (0.4M) | ST-01-1492- BH03 (0.2M) | ST-01-1492- BH03 (0.5M) | ST-01-1492- BH04 (0.2M) |
|--------------------------------|-----|-------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001798 | S22-JI0001799 | S22-JI0001800 | S22-JI0001801 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |



| Client Sample ID | | | ST-01-1492- BH02 (0.4M) | ST-01-1492- BH03 (0.2M) | ST-01-1492- BH03 (0.5M) | ST-01-1492- BH04 (0.2M) |
|---|------|-------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001798 | S22-JI0001799 | S22-JI0001800 | S22-JI0001801 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons | | | | | | |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| BTEX | • | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 145 | 103 | 83 | 53 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | - | - | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | - | - | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | - | - | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | - | - | - | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 74 | 79 | 54 | 72 |
| p-Terphenyl-d14 (surr.) | 1 | % | 110 | 102 | 91 | 86 |
| 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 |



| Client sample IJ Biti2 (2,4H) Biti2 (2,4H) Biti2 (2,4H) Biti2 (2,4H) Biti2 (2,4H) Biti2 (2,4H) Soil Soil< | ST-01-1492- |
|--|---------------|
| Eurorins Sample No. S22-JI0001795 S22-JI001795 S22-JI01175 S21 S2 | BH04 (0.2M) |
| Date Sampled Jun 27, 2022 Jun 27, 2023 Jun 27, 2024< | Soil |
| Test/Reterance LOR Unit Image Image Image Organochlorine Pesticides 0.05 mg/kg < 0.05 < 0.05 < 0.05 Endosulfan II 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 < 0.05 Endrin Ketone 0.05 mg/kg < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 | S22-JI0001801 |
| Organochlorine Pesticides mg/kg < | Jun 27, 2022 |
| Endosulfan I 0.06 mg/kg < 0.05 | |
| Endosulfan II 0.05 mg/kg < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0 | |
| Endosulfan sulphate 0.05 mg/kg < 0.05 < 0.05 < 0.05 < 0.05 Endrin 0.06 mg/kg < 0.05 | < 0.05 |
| Endrin 0.05 mgkg < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 <0.05 <0.05 | < 0.05 |
| Endrin aldehyde 0.05 mg/kg < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < | < 0.05 |
| Endrin ketone 0.05 mg/kg < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0 | < 0.05 |
| g-HCH (Lindane) 0.05 mg/kg < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < | < 0.05 |
| Heptachlor 0.05 mg/kg < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 | < 0.05 |
| Heptachlor epoxide 0.05 mg/kg < 0.05 mg/kg < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 <th< td=""><td>< 0.05</td></th<> | < 0.05 |
| Hexachlorobenzene 0.05 mg/kg < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 <0.05 <0.05 < | < 0.05 |
| Methoxychlor 0.05 mg/kg < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0. | < 0.05 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | < 0.05 |
| Aldrin and Dieldrin (Total)* 0.05 mg/kg - - . DDT + DDE + DDD (Total)* 0.05 mg/kg - - . Vic EPA IWRG 621 OCP (Total)* 0.1 mg/kg - - . Vic EPA IWRG 621 Other OCP (Total)* 1 % 132 106 82 1 Dibutylchlorendate (surr.) 1 % 99 99 84 0 Organophosphorus Pesticides - - - - - Azinphos-methyl 0.2 mg/kg < 0.2 | < 0.05 |
| DDT + DDE + DDD (Total)* 0.05 mg/kg - - . Vic EPA IWRG 621 OCP (Total)* 0.1 mg/kg -< | < 0.5 |
| Vic EPA IWRG 621 OCP (Total)* 0.1 mg/kg - - - Vic EPA IWRG 621 Other OCP (Total)* 0.1 mg/kg - - - - Dibutylchlorendate (surr.) 1 % 132 106 82 Organophosphorus Pesticides - - - - - Azinphos-methyl 0.2 mg/kg <0.2 | - |
| Vic EPA IWRG 621 Other OCP (Total)* 0.1 mg/kg - - - Dibutylchlorendate (surr.) 1 % 132 106 82 Tetrachloro-m-xylene (surr.) 1 % 99 99 84 Organophosphorus Pesticides - - - - Azinphos-methyl 0.2 mg/kg < 0.2 | - |
| Dibutylchlorendate (surr.) 1 $\frac{9}{6}$ 132 106 82 Tetrachloro-m-xylene (surr.) 1 $\frac{9}{6}$ 99 99 84 Azinphos-methyl 0.2 mg/kg < 0.2 | - |
| Tetrachloro-m-xylene (surr.) 1 % 99 99 84 Organophosphorus Pesticides mg/kg <0.2 mg/kg <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 <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 <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 <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 <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 | - |
| Organophosphorus Pesticides ng/kg <.0.2 mg/kg <.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 <.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 <.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 <.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 <.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 <.0.2 <.0.2 <.0.2 <th<< td=""><td>99</td></th<<> | 99 |
| Azinphos-methyl0.2 mg/kg < 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< 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< 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< 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< 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< 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< 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< 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< 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 | 81 |
| Bolstar 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 <th< td=""><td></td></th<> | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | < 0.2 |
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| Chlorpyrifos-methyl 0.2 mg/kg < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 Coumaphos2 mg/kg < 2 < 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 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 Ethyl parathion 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 Fensulfothion 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 Malathion 0.2 mg/kg < 0.2 < 0.2 < 0.2 < 0.2 Monocrotophos 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 Methyl parathion 0.2 mg | < 0.2 |
| Coumaphos2 mg/kg < 2 < 2 < 2 < 2 Demeton-S 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 | < 0.2 |
| Demeton-S 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 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 < 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 < 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 |
| Demeton-O 0.2 mg/kg < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 Diazinon 0.2 mg/kg < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 Dichlorvos 0.2 mg/kg < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 Dimethoate 0.2 mg/kg < 0.2 < 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 Ethoprop 0.2 mg/kg < 0.2 < 0.2 < 0.2 Ethyl parathion 0.2 mg/kg < 0.2 < 0.2 < 0.2 Fensulfothion 0.2 mg/kg < 0.2 < 0.2 < 0.2 Fensulfothion 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 Metryl parathion 0.2 mg/kg < 0.2 < 0.2 < 0.2 Metryl parathion 0.2 mg/kg < 0.2 < 0.2 < 0.2 Metryl parathion 0.2 mg/kg < 0.2 < 0.2 < 0.2 Metryl parathion 0.2 mg/kg < 0.2 < 0.2 < 0.2 Moncorotophos 2 mg/kg $<$ | < 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 < 0.2 Dimethoate 0.2 mg/kg < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 Disulfoton 0.2 mg/kg < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 EPN 0.2 mg/kg < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 Ethion 0.2 mg/kg < 0.2 < 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 Methyl parathion 0.2 mg/kg < 0.2 < 0.2 < 0.2 Methyl parathion 0.2 mg/kg < 0.2 < 0.2 < 0.2 Methyl parathion 0.2 mg/kg < 0.2 < 0.2 < 0.2 Methyl parathion 0.2 mg/kg < 0.2 < 0.2 < 0.2 Methyl parathion 0.2 mg/kg < 0.2 < 0.2 < 0.2 Methyl parathion 0.2 mg/kg < 0.2 < 0.2 < 0.2 Monocrotophos 2 mg | < 0.2 |
| Dichlorvos 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 <td>< 0.2</td> | < 0.2 |
| Dimethoate 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 | < 0.2 |
| Disulfoton 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 | < 0.2 |
| EPN 0.2 mg/kg < 0.2 c 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0 | < 0.2 |
| Ethion 0.2 mg/kg < 0.2 c 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 | < 0.2 |
| Ethoprop 0.2 mg/kg < 0.2 c 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 <t< td=""><td>< 0.2</td></t<> | < 0.2 |
| Ethyl parathion 0.2 mg/kg < 0.2 c 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 | < 0.2 |
| Fenitrothion 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 | < 0.2 |
| Fensulfothion 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 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 |
| Fenthion 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 <t< td=""><td>< 0.2</td></t<> | < 0.2 |
| Malathion 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < | < 0.2 |
| Merphos 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 <th< td=""><td>< 0.2</td></th<> | < 0.2 |
| Methyl parathion 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 | < 0.2 |
| Mevinphos 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < | < 0.2 |
| Monocrotophos 2 mg/kg <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 | < 0.2 |
| Naled 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < | < 0.2 |
| Omethoate 2 mg/kg < 2 < 2 < 2 < 2 Phorate 0.2 mg/kg < 0.2 | < 2 |
| Phorate 0.2 mg/kg < 0.2 < 0.2 < 0.2 < 0.2 | < 0.2 |
| | < 2 |
| | < 0.2 |
| Pirimiphos-methyl 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 | < 0.2 |
| Pyrazophos 0.2 mg/kg < 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 < 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 < 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 < 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 < 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 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 | < 0.2 |



| Client Sample ID | | | ST-01-1492- BH02 (0.4M) | ST-01-1492- BH03 (0.2M) | ST-01-1492- BH03 (0.5M) | ST-01-1492- BH04 (0.2M) |
|-----------------------------|-----|-------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001798 | S22-JI0001799 | S22-JI0001800 | S22-JI0001801 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Organophosphorus Pesticides | | | | | | |
| 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 | % | 103 | 83 | 53 | 85 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 4.7 | 12 | 12 | < 2 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 110 | 140 | 150 | 170 |
| Copper | 5 | mg/kg | 17 | 19 | 29 | 54 |
| Lead | 5 | mg/kg | 22 | 28 | 25 | 13 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 31 | 28 | 50 | 120 |
| Zinc | 5 | mg/kg | 32 | 39 | 38 | 180 |
| % Moisture | 1 | % | 17 | 14 | 18 | 12 |

| Client Sample ID | | | ST-01-1492- | ST-01-1492- | ST-01-1492- | ST-01-1492- |
|---|-----|-------|---------------------|---------------------|---------------------|---------------------|
| • | | | BH04 (0.4M) Soil | BH07 (0.2M) Soil | BH07 (0.4M) Soil | BH08 (0.2M) Soil |
| Sample Matrix | | | | | | |
| Eurofins Sample No. | | | S22-JI0001802 | S22-JI0001803 | S22-JI0001804 | S22-JI0001805 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| втех | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 140 | 116 | 76 | 88 |



| Client Sample ID | | | ST-01-1492- BH04 (0.4M) | ST-01-1492- BH07 (0.2M) | ST-01-1492- BH07 (0.4M) | ST-01-1492- BH08 (0.2M) |
|---------------------------------------|------|------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001802 | S22-JI0001803 | S22-JI0001804 | S22-JI0001805 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Polycyclic Aromatic Hydrocarbons | | - | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | - | - | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | - | - | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | - | - | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene Total PAH* | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | mg/kg % | 71 | 94 | 93 | 77 |
| p-Terphenyl-d14 (surr.) | 1 | % | 111 | 131 | 132 | 95 |
| Organochlorine Pesticides | | 70 | | 101 | 152 | 55 |
| 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 | - | - | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | - | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | - | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - 100 | - 1/2 | - 150 | - |
| Dibutylchlorendate (surr.) | 1 | % | 109 | 143 | 150 | 121 |



| Client Sample ID | | | ST-01-1492- BH04 (0.4M) | ST-01-1492- BH07 (0.2M) | ST-01-1492- BH07 (0.4M) | ST-01-1492- BH08 (0.2M) |
|-----------------------------|-----|-------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001802 | S22-JI0001803 | S22-JI0001804 | S22-JI0001805 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | · · | , i | , i i | , i |
| Organophosphorus Pesticides | | 01 | | | | |
| 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 | % | 78 | 91 | 106 | 103 |
| Heavy Metals | | 1 | | | | |
| Arsenic | 2 | mg/kg | < 2 | 7.1 | 5.3 | 30 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 110 | 76 | 71 | 160 |
| Copper | 5 | mg/kg | 38 | 24 | 23 | 14 |
| Lead | 5 | mg/kg | < 5 | 16 | 15 | 31 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 120 | 30 | 35 | 11 |
| Zinc | 5 | mg/kg | 63 | 34 | 38 | 21 |
| | | 1 | | | | |



| Client Sample ID | | | ST-01-1492- BH08 (0.4M) | ST-01-1492- BH09 (0.2M) | ST-01-1492- BH10 (0.2M) | ST-01-1492- BH11 (0.2M) |
|---|------|---|----------------------------|----------------------------|----------------------------|----------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001806 | S22-JI0001807 | S22-JI0001808 | S22-JI0001809 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | < 50 | 54 | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 | < 50 | 61 | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | < 50 | 115 | < 50 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 | < 20 | < 20 | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 | < 50 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | < 100 | < 100 | < 100 |
| BTEX | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| 4-Bromofluorobenzene (surr.) | 1 | <u>%</u> | 99 | 81 | 75 | 81 |
| Polycyclic Aromatic Hydrocarbons | | 70 | | | | 0. |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | - | - | _ |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | - | - | _ |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | _ | - | - | _ |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | - | - | - | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 68 | 71 | 69 | 77 |
| p-Terphenyl-d14 (surr.) | 1 | % | 113 | | 144 | 105 |
| 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 |



| Client Sample ID | | | ST-01-1492- BH08 (0.4M) | ST-01-1492- BH09 (0.2M) | ST-01-1492- BH10 (0.2M) | ST-01-1492- BH11 (0.2M) |
|-------------------------------------|------|-------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001806 | S22-JI0001807 | S22-JI0001808 | S22-JI0001809 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | , . | | |
| Organochlorine Pesticides | Lon | Onit | | | | |
| 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 | - | - | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | - | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | - | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 105 | Q09INT | 125 | 145 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 107 | Q09INT | 142 | 114 |
| 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 |



| Client Sample ID | | | ST-01-1492- BH08 (0.4M) | ST-01-1492- BH09 (0.2M) | ST-01-1492- BH10 (0.2M) | ST-01-1492- BH11 (0.2M) |
|-----------------------------|-----|-------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001806 | S22-JI0001807 | S22-JI0001808 | S22-JI0001809 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Organophosphorus Pesticides | | | | | | |
| 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 | % | 94 | 131 | 126 | 107 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg/kg | 3.9 | 15 | 6.9 | 21 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 48 | 52 | 32 | 130 |
| Copper | 5 | mg/kg | 18 | 5.1 | 5.7 | 14 |
| Lead | 5 | mg/kg | 13 | 31 | 19 | 34 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 16 | 6.2 | < 5 | 11 |
| Zinc | 5 | mg/kg | 32 | 14 | 31 | 130 |
| | | | | | | |
| % Moisture | 1 | % | 25 | 15 | 21 | 14 |

| Client Sample ID | | | ST-01-1492- BH11 (0.4M) | ST-01-1492- SS01 | ^{G01} ST-01-1492- SS02 | ^{G01} ST-01-1492- SS03 |
|---|-----|-------|----------------------------|---------------------|------------------------------------|------------------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001810 | S22-JI0001811 | S22-JI0001812 | S22-JI0001813 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Total Recoverable Hydrocarbons | | | | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 | < 20 | < 100 | < 100 |
| TRH C10-C14 | 20 | mg/kg | < 20 | < 20 | < 100 | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 | 54 | < 250 | 260 |
| TRH C29-C36 | 50 | mg/kg | < 50 | 70 | < 250 | 540 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 | 124 | < 250 | 800 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 2.5 | < 2.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 | < 20 | < 100 | < 100 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 | < 20 | < 100 | < 100 |
| TRH >C10-C16 | 50 | mg/kg | < 50 | < 50 | < 250 | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 | < 50 | < 250 | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 | 110 | < 500 | 710 |
| TRH >C34-C40 | 100 | mg/kg | < 100 | < 100 | < 500 | 200 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 | 110 | < 500 | 910 |
| BTEX | | | | | | |
| Benzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.5 | < 0.5 |
| Toluene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.5 | < 0.5 |
| Ethylbenzene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.5 | < 0.5 |
| m&p-Xylenes | 0.2 | mg/kg | < 0.2 | < 0.2 | < 1 | < 1 |
| o-Xylene | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.5 | < 0.5 |



| Client Sample ID | | | ST-01-1492- BH11 (0.4M) | ST-01-1492- SS01 | ^{G01} ST-01-1492- SS02 | ^{G01} ST-01-1492- SS03 |
|---------------------------------------|------|-------|----------------------------|---------------------|------------------------------------|------------------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001810 | S22-JI0001811 | S22-JI0001812 | S22-JI0001813 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| BTEX | | | | | | |
| Xylenes - Total* | 0.3 | mg/kg | < 0.3 | < 0.3 | < 1.5 | < 1.5 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 114 | 95 | 118 | 91 |
| Polycyclic Aromatic Hydrocarbons | | 70 | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | _ | _ | _ | _ |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | _ | _ | - | _ |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | - | - | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | - | - | - | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 70 | 80 | 108 | 99 |
| p-Terphenyl-d14 (surr.) | 1 | % | 83 | 78 | 76 | 91 |
| Organochlorine Pesticides | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | < 0.1 | < 1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| a-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | < 0.05 | < 0.5 | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 | < 0.5 | < 10 | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | - | - | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | - | - | - | - |



| Client Sample ID | | | ST-01-1492- BH11 (0.4M) | ST-01-1492- SS01 | ^{G01} ST-01-1492- SS02 | ^{G01} ST-01-1492- SS03 |
|-------------------------------------|-----|-------|----------------------------|---------------------|------------------------------------|------------------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001810 | S22-JI0001811 | S22-JI0001812 | S22-JI0001813 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| Organochlorine Pesticides | | | | | | |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | - | _ | _ | _ |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | - | - | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 103 | 105 | 64 | 93 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 89 | 70 | 63 | 86 |
| Organophosphorus Pesticides | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 5 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 5 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 5 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.5 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 79 | 87 | 76 | 90 |
| Heavy Metals | | | | 47 | | |
| Arsenic | 2 | mg/kg | 27 | 4.7 | 10 | 5.0 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 190 | 29 | 140 | 24 |
| Copper | 5 | mg/kg | 12 | 23 | 38 | 28 |
| Lead | 5 | mg/kg | 49 | 12 | 37 | 9.4 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 7.8 | 5.7 | 62 | 16 |
| Zinc | 5 | mg/kg | 59 | 85 | 220 | 350 |



| Client Sample ID | | | ST-01-1492- BH11 (0.4M) | ST-01-1492- SS01 | ^{G01} ST-01-1492- SS02 | ^{G01} ST-01-1492- SS03 |
|---------------------|-----|------|----------------------------|---------------------|------------------------------------|------------------------------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | S22-JI0001810 | S22-JI0001811 | S22-JI0001812 | S22-JI0001813 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| | | | | | | |
| % Moisture | 1 | % | 12 | 26 | 28 | 26 |

| Client Sample ID | | | ST-01-1492- BR1 |
|---|-----|-------|--------------------|
| Sample Matrix | | | Soil |
| Eurofins Sample No. | | | S22-JI0001814 |
| Date Sampled | | | May 26, 2022 |
| Test/Reference | LOR | Unit | |
| Total Recoverable Hydrocarbons | | 01.11 | |
| TRH C6-C9 | 20 | mg/kg | < 20 |
| TRH C10-C14 | 20 | mg/kg | < 20 |
| TRH C15-C28 | 50 | mg/kg | < 50 |
| TRH C29-C36 | 50 | mg/kg | < 50 |
| TRH C10-C36 (Total) | 50 | mg/kg | < 50 |
| Naphthalene ^{N02} | 0.5 | mg/kg | < 0.5 |
| TRH C6-C10 | 20 | mg/kg | < 20 |
| TRH C6-C10 less BTEX (F1) ^{N04} | 20 | mg/kg | < 20 |
| TRH >C10-C16 | 50 | mg/kg | < 50 |
| TRH >C10-C16 less Naphthalene (F2) ^{N01} | 50 | mg/kg | < 50 |
| TRH >C16-C34 | 100 | mg/kg | < 100 |
| TRH >C34-C40 | 100 | mg/kg | < 100 |
| TRH >C10-C40 (total)* | 100 | mg/kg | < 100 |
| 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 | % | 89 |
| Polycyclic Aromatic Hydrocarbons | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 |
| Acenaphthene | 0.5 | mg/kg | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 |
| Anthracene | 0.5 | mg/kg | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 |
| Benzo(b&j)fluoranthene ^{N07} | 0.5 | mg/kg | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 |
| Chrysene | 0.5 | mg/kg | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | < 0.5 |
| Fluorene | 0.5 | mg/kg | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 |
| Naphthalene | 0.5 | mg/kg | < 0.5 |



| Client Sample ID | | | ST-01-1492- |
|-------------------------------------|------|-------|---------------|
| | | | BR1 |
| Sample Matrix | | | Soil |
| Eurofins Sample No. | | | S22-JI0001814 |
| Date Sampled | | | May 26, 2022 |
| Test/Reference | LOR | Unit | |
| Polycyclic Aromatic Hydrocarbons | | | |
| Phenanthrene | 0.5 | mg/kg | < 0.5 |
| Pyrene | 0.5 | mg/kg | < 0.5 |
| Total PAH* | 0.5 | mg/kg | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | 127 |
| p-Terphenyl-d14 (surr.) | 1 | % | Q09INT |
| 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 |
| а-НСН | 0.05 | mg/kg | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 1.7 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 134 |
| Organophosphorus Pesticides | | 1 | |
| 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 |



| Client Sample ID | | | ST-01-1492- BR1 |
|-----------------------------|-----|-------|--------------------|
| Sample Matrix | | | Soil |
| Eurofins Sample No. | | | S22-JI0001814 |
| Date Sampled | | | May 26, 2022 |
| Test/Reference | LOR | Unit | |
| Organophosphorus Pesticides | | | |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 139 |
| Heavy Metals | | - | |
| Arsenic | 2 | mg/kg | 18 |
| Cadmium | 0.4 | mg/kg | < 0.4 |
| Chromium | 5 | mg/kg | 130 |
| Copper | 5 | mg/kg | 12 |
| Lead | 5 | mg/kg | 28 |
| Mercury | 0.1 | mg/kg | < 0.1 |
| Nickel | 5 | mg/kg | 10.0 |
| Zinc | 5 | mg/kg | 26 |
| | | | |
| % Moisture | 1 | % | 12 |



Sample History

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

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

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|--------------|--------------|
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | Sydney | Jul 06, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Sydney | Jul 06, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons - 2013 NEPM Fractions | Sydney | Jul 06, 2022 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| BTEX | Sydney | Jul 06, 2022 | 14 Days |
| - Method: LTM-ORG-2010 BTEX and Volatile TRH | | | |
| Polycyclic Aromatic Hydrocarbons | Sydney | Jul 06, 2022 | 14 Days |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | | | |
| Organochlorine Pesticides | Sydney | Jul 06, 2022 | 14 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water | | | |
| Organophosphorus Pesticides | Sydney | Jul 06, 2022 | 14 Days |
| - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS | | | |
| Metals M8 | Sydney | Jul 06, 2022 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| % Moisture | Sydney | Jul 01, 2022 | 14 Days |
| - Method: LTM-GEN-7080 Moisture | | | |

| • | | | Eurofins Env ABN: 50 005 08 | | ng Australia Pty | Ltd | | | | | | | Eurofins ARL Pty Ltd ABN: 91 05 0159 898 | Eurofins Environme NZBN: 9429046024954 | ent Testing NZ L |
|---|---|--|---|--|--|--|---------------------------------------|--|--------------|--|----------|--|--|--|---|
| veb: wv | ww.eurofins.com.au | | Melbourne 6 Monterey Roa Dandenong Sou VIC 3175 Tel: +61 3 8564 | Geelon d 19/8 Lev th Groveda VIC 321 5000 Tel: +61 | valan Street 17 Ile Gi 6 NS | ydney 79 Magowar irraween SW 2145 el: +61 2 99 ATA# 1261 | 00 840 | Mitchell ACT 29 00 Tel: +61 | Dacre Street | Brisbane 1/21 Smallw Murarrie QLD 4172 Tel: +61 7 3 NATA# 126 | 902 4600 | Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 4 NATA# 1261 Site# 25079 | Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 | Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 767 Tel: 0800 856 450 IANZ# 1290 |
| | mpany Name: dress: | K2 Enviro So Suite 1A, Le Gordon NSW 2768 | | acific Highway | | | | Order No Report # Phone: Fax: | 90 | 2467 49 669 559 | | | Received: Due: Priority: Contact Name: | Jul 1, 2022 12:36 Pl Jul 8, 2022 5 Day Kannan Kaliappan | м |
| | oject Name: oject ID: | 515 CROOK ST-01-1492 | | D KINGSDALI | E NSW 2580 | | | | | | | Euro | fins Analytical Servic | es Manager : Hanna | ah Mawbey |
| | | Sa | Imple Detail | | | MUISUUE SEL | | Eurofins Suite B10 | | | | | | | |
| | | | | | | | | | | | | | | | |
| Sydr | ney Laboratory | - NATA # 1261 | Site # 18217 | • | | | X | x | | | | | | | |
| | ney Laboratory rnal Laboratory | - NATA # 1261 | Site # 18217 | , | | ; | × | x | | | | | | | |
| Exte No | rnal Laboratory Sample ID | | | Matrix | LAB ID |) | × | x | | | | | | | |
| Exte No | rnal Laboratory Sample ID ST-01-1492- BH01 (0.2M) | Sample Date | Sampling | Matrix Soil | S22-JI00017 |) 794 ₎ | | x x | | | | | | | |
| | Sample ID ST-01-1492- BH01 (0.2M) ST-01-1492- BH01 (0.7M) | Sample Date Jun 27, 2022 Jun 27, 2022 | Sampling | Matrix Soil Soil | S22-JI00017 | 794 ₃ | × | | | | | | | | |
| Exter No | Sample ID ST-01-1492- BH01 (0.2M) ST-01-1492- BH01 (0.7M) ST-01-1492- BH01 (0.7M) ST-01-1492- BH01 (0.7M) | Sample Date Jun 27, 2022 Jun 27, 2022 Jun 27, 2022 | Sampling | Matrix Soil Soil Soil | S22-JI00017 S22-JI00017 S22-JI00017 | 794 ; 795 ; 796 ; | x x | x | | | | | | | |
| Exter No | Sample ID ST-01-1492- BH01 (0.2M) ST-01-1492- BH01 (0.7M) ST-01-1492- BH01 (0.7M) ST-01-1492- BH01 (1.0M) ST-01-1492- BH02 (0.2M) | Sample Date Jun 27, 2022 | Sampling | Matrix Soil Soil Soil Soil | S22-JI00017 S22-JI00017 S22-JI00017 S22-JI00017 S22-JI00017 | 794 ; 795 ; 796 ; 797 ; | × × | x x | | | | | | | |
| Exter No I 2 3 4 | Sample ID ST-01-1492- BH01 (0.2M) ST-01-1492- BH01 (0.7M) ST-01-1492- BH01 (1.0M) ST-01-1492- BH02 (0.2M) ST-01-1492- BH02 (0.2M) | Sample Date Jun 27, 2022 Jun 27, 2022 | Sampling | Matrix Soil Soil Soil Soil Soil | S22-JI00017 S22-JI00017 S22-JI00017 S22-JI00017 S22-JI00017 S22-JI00017 | 794) 795) 796) 797) 798) | x x x | x x x x | | | | | | | |
| Exte No 1 2 3 4 5 | Sample ID Sample ID ST-01-1492- BH01 (0.2M) ST-01-1492- BH01 (0.7M) ST-01-1492- BH01 (1.0M) ST-01-1492- BH02 (0.2M) ST-01-1492- BH02 (0.4M) ST-01-1492- BH03 (0.2M) | Sample Date Jun 27, 2022 | Sampling | Matrix Soil Soil Soil Soil Soil Soil | S22-JI00017 S22-JI00017 S22-JI00017 S22-JI00017 S22-JI00017 | 794 ; 795 ; 796 ; 797 ; 798 ; | x x x x | x x x x x | | | | | | | |
| Exte No 1 2 3 4 5 5 7 | Sample ID ST-01-1492- BH01 (0.2M) ST-01-1492- BH01 (0.7M) ST-01-1492- BH01 (1.0M) ST-01-1492- BH02 (0.2M) ST-01-1492- BH02 (0.4M) ST-01-1492- BH02 (0.4M) | Sample Date Jun 27, 2022 Jun 27, 2022 | Sampling | Matrix Soil Soil Soil Soil Soil | S22-JI00017 S22-JI00017 S22-JI00017 S22-JI00017 S22-JI00017 S22-JI00017 | 794 ;; 795 ;; 796 ;; 797 ;; 798 ;; 7990 ;; 3000 ;; | x x x x x x x x x x x x x x x x x x x | x x x x x x x | | | | | | | |

| web: www.eurofins.com.au email: EnviroSales@eurofins.com | | Eurofins Environment Testing Australia Pty Ltd I ABN: 50 005 085 521 I | | | | | | | | | Eurofins Environment Testing NZ Ltd NZBN: 9429046024954 | | |
|--|----------------------------|---|---------------------|------------------|--|--------------|---|---|---|---|--|--|-----------|
| | | Melbourne Geelong Sydney 6 Monterey Road 19/8 Lewalan Street 179 Mago Dandenong South Grovedale Girraweer VIC 3175 VIC 3216 NSW 214 | | | Magowar Road Unit 1,2 Dacre Stree aween Mitchell V 2145 ACT 2911 +61 2 9900 8400 Tel: +61 2 6113 809 | | Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 | Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 2079 | Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 94 NATA# 1261 Site# 25079 | ABN: 91 05 0159 898 Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 | Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 | |
| | ompany Name: ddress: | K2 Enviro Suite 1A, L Gordon NSW 2768 | evel 2, 802 Pacific | Highway | | | R P | • | 2467 49 669 559 | | Received: Due: Priority: Contact Name: | Jul 1, 2022 12:36 F Jul 8, 2022 5 Day Kannan Kaliappan | M |
| Project Name: 515 CROOKWELL ROAD KINGSD Project ID: ST-01-1492 | | | | IGSDALE NSW 2580 |) | | | | | Euro | fins Analytical Servic | es Manager : Hanr | ah Mawbey |
| | Sample Detail | | | | | Moisture Set | Eurofins Suite B10 | | | | | | |
| Syd | Iney Laboratory | - NATA # 126 | 1 Site # 18217 | | | Х | Х |] | | | | | |
| 9 | ST-01-1492- BH04 (0.4M) | Jun 27, 2022 | | | | х | x | _ | | | | | |
| 10 | ST-01-1492- BH07 (0.2M) | Jun 27, 2022 | Soil | S22-JI00 | 01803 | х | x | | | | | | |
| 11 | ST-01-1492- BH07 (0.4M) | Jun 27, 2022 | Soil | S22-JI00 | 01804 | х | x | | | | | | |
| 12 | ST-01-1492- BH08 (0.2M) | Jun 27, 2022 | Soil | S22-JI00 | 01805 | x | x | | | | | | |
| 13 | ST-01-1492- BH08 (0.4M) | Jun 27, 2022 | Soil | S22-JI00 | 01806 | х | x | | | | | | |
| 14 | ST-01-1492- BH09 (0.2M) | Jun 27, 2022 | Soil | S22-JI00 | 01807 | х | x | | | | | | |
| 15 | ST-01-1492- BH10 (0.2M) | Jun 27, 2022 | Soil | S22-JI00 | 01808 | х | x | | | | | | |
| 16 | ST-01-1492- BH11 (0.2M) | Jun 27, 2022 | Soil | S22-JI00 | 01809 | х | x | | | | | | |
| 17 | ST-01-1492- BH11 (0.4M) | Jun 27, 2022 | Soil | S22-JI00 | 01810 | х | x | | | | | | |
| 18 | ST-01-1492- | Jun 27, 2022 | Soil | S22-JI00 | 01811 | Х | Х | | | | | | |

| Eurofins Environment Testing Australia Pty Ltd ABN: 50 005 085 521 | | | | | | | | | Eurofins ARL Pty Lto ABN: 91 05 0159 898 | Eurofins Environment Testing NZ Ltd NZBN: 9429046024954 | |
|--|--|--------------|---|----------|--|--|--|--|---|--|--|
| Melbourne Geelong Sydney 6 Monterey Road 19/8 Lewalan Street 179 Magowa Dandenong South Grovedale Girraween VIC 3175 VIC 3216 NSW 2145 | | | igowar Road Unit 1,2 Dacre Street 1/21 Smallwood Place 4/52 Industri sen Mitchell Murarrie Mayrifield East 145 ACT 2911 QLD 4172 PO Box 60 V 12 9900 8400 Tel: +61 2 6113 8091 Tel: +61 7 3902 4600 Tel: +61 2 6113 | | re Street 1/21 Smallwood Place 4/52 Industrial Drive Murarrie Mayfield East NSW 2 QLD 4172 PO Box 60 Wickham | Perth 46-48 Banksia Road 304 Welshpool 2293 WA 6106 Tel: +61 8 6253 4444 | Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 | | | |
| Company Name: K2 Enviro Solutions Address: Suite 1A, Level 2, 802 Pacific Highway Gordon NSW 2768 | | | | | | C R P F | 902467 0449 669 559 | Received: Due: Priority: Contact Name: | Jul 1, 2022 12:36 F Jul 8, 2022 5 Day Kannan Kaliappan | PM | |
| | Project Name: 515 CROOKWELL ROAD KINGSDALE NSW 2580 Project ID: ST-01-1492 | | | | | E | urofins Analytical Servi | ces Manager : Hanr | ah Mawbey | | |
| | | | ample Detail | | | Moisture Set | Eurofins Suite B10 | | | | |
| | ney Laboratory | | | | | х | X | | | | |
| 18 | ST-01-1492- SS01 | Jun 27, 2022 | Soil | S22-JI00 | 01811 | | | | | | |
| 19 | ST-01-1492- SS02 | Jun 27, 2022 | Soil | S22-JI00 | 01812 | х | x | | | | |
| 20 | ST-01-1492- SS03 | Jun 27, 2022 | Soil | S22-JI00 | 01813 | х | x | | | | |
| 21 | ST-01-1492- BR1 | May 26, 2022 | Soil | S22-JI00 | 01814 | х | x | | | | |
| - | Counts | | | | | 21 | 21 | | | | |



Internal Quality Control Review and Glossary

General

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

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

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

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

Units

| U IIIIU | | |
|---------------------------------------|---|---|
| mg/kg: milligrams per kilogram | mg/L: milligrams per litre | μg/L: micrograms per litre |
| ppm: parts per million | ppb: parts per billion | %: Percentage |
| org/100 mL: Organisms per 100 millili | tres NTU: Nephelometric Turbidity Units | MPN/100 mL: Most Probable Number of organisms per 100 millilitres |
| | | |

Terms

| Termo | |
|------------------|--|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| СР | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| твто | Tributyltin oxide (bis-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 be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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



Quality Control Results

| Test | Units | Result 1 | | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|---------|------------------|---|----------------------|----------------|--------------------|
| Method Blank | | | | | | |
| Total Recoverable Hydrocarbons | | | | | | |
| TRH C6-C9 | mg/kg | < 20 | | 20 | Pass | |
| TRH C10-C14 | mg/kg | < 20 | | 20 | Pass | |
| TRH C15-C28 | mg/kg | < 50 | | 50 | Pass | |
| TRH C29-C36 | mg/kg | < 50 | | 50 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | 0.5 | Pass | |
| TRH C6-C10 | mg/kg | < 20 | | 20 | Pass | |
| TRH >C10-C16 | mg/kg | < 50 | | 50 | Pass | |
| TRH >C16-C34 | mg/kg | < 100 | | 100 | Pass | |
| TRH >C34-C40 | mg/kg | < 100 | | 100 | Pass | |
| Method Blank | | | | | | |
| BTEX | | | | | | |
| Benzene | mg/kg | < 0.1 | | 0.1 | Pass | |
| Toluene | mg/kg | < 0.1 | | 0.1 | Pass | |
| Ethylbenzene | mg/kg | < 0.1 | | 0.1 | Pass | |
| m&p-Xylenes | mg/kg | < 0.2 | | 0.2 | Pass | |
| o-Xylene | mg/kg | < 0.1 | | 0.1 | Pass | |
| Xylenes - Total* | mg/kg | < 0.3 | | 0.3 | Pass | |
| Method Blank | ing/kg | 4 0.0 | | 0.0 | 1 400 | |
| Polycyclic Aromatic Hydrocarbons | | | | 1 | | |
| Acenaphthene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Acenaphthylene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Anthracene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Benz(a)anthracene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Benzo(a)pyrene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Benzo(b&j)fluoranthene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Benzo(g.h.i)perylene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Benzo(k)fluoranthene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Chrysene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Dibenz(a.h)anthracene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Fluoranthene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Fluorene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Indeno(1.2.3-cd)pyrene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Phenanthrene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Pyrene | mg/kg | < 0.5 | | 0.5 | Pass | |
| Total PAH* | mg/kg | < 0.5 | | 0.5 | N/A | |
| Method Blank | liig/kg | - | | 0.5 | | |
| Organochlorine Pesticides | | [| | | | |
| Chlordanes - Total | malka | < 0.1 | | 0.1 | Pass | |
| 4.4'-DDD | mg/kg | < 0.05 | | 0.05 | Pass | |
| | mg/kg | | | | | |
| 4.4'-DDE 4.4'-DDT | mg/kg | < 0.05 | | 0.05 | Pass | |
| | mg/kg | < 0.05 < 0.05 | | 0.05 | Pass | |
| a-HCH | mg/kg | | | 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 | <u> </u> | 0.05 | Pass | |
| Dieldrin | mg/kg | < 0.05 | | 0.05 | Pass | |
| Endosulfan I | mg/kg | < 0.05 | <u> </u> | 0.05 | Pass | |
| Endosulfan II | mg/kg | < 0.05 | | 0.05 | Pass | |
| Endosulfan sulphate | mg/kg | < 0.05 | | 0.05 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|-----------------------------|---------|----------|----------------------|----------------|--------------------|
| Endrin | mg/kg | < 0.05 | 0.05 | Pass | |
| Endrin aldehyde | mg/kg | < 0.05 | 0.05 | Pass | |
| Endrin ketone | mg/kg | < 0.05 | 0.05 | Pass | |
| g-HCH (Lindane) | mg/kg | < 0.05 | 0.05 | Pass | |
| Heptachlor | mg/kg | < 0.05 | 0.05 | Pass | |
| Heptachlor epoxide | mg/kg | < 0.05 | 0.05 | Pass | |
| Hexachlorobenzene | mg/kg | < 0.05 | 0.05 | Pass | |
| Methoxychlor | mg/kg | < 0.05 | 0.05 | Pass | |
| Toxaphene | mg/kg | < 0.5 | 0.5 | Pass | |
| Method Blank | | | | | |
| Organophosphorus Pesticides | | | | | |
| Azinphos-methyl | mg/kg | < 0.2 | 0.2 | Pass | |
| Bolstar | mg/kg | < 0.2 | 0.2 | Pass | |
| Chlorfenvinphos | mg/kg | < 0.2 | 0.2 | Pass | |
| Chlorpyrifos | mg/kg | < 0.2 | 0.2 | Pass | |
| Chlorpyrifos-methyl | mg/kg | < 0.2 | 0.2 | Pass | |
| Coumaphos | mg/kg | < 2 | 2 | Pass | |
| Demeton-S | mg/kg | < 0.2 | 0.2 | Pass | |
| Demeton-O | mg/kg | < 0.2 | 0.2 | Pass | |
| Diazinon | mg/kg | < 0.2 | 0.2 | Pass | |
| Dichlorvos | mg/kg | < 0.2 | 0.2 | Pass | |
| Dimethoate | mg/kg | < 0.2 | 0.2 | Pass | |
| Disulfoton | mg/kg | < 0.2 | 0.2 | Pass | |
| EPN | mg/kg | < 0.2 | 0.2 | Pass | |
| Ethion | mg/kg | < 0.2 | 0.2 | Pass | |
| Ethoprop | mg/kg | < 0.2 | 0.2 | Pass | |
| Ethyl parathion | mg/kg | < 0.2 | 0.2 | Pass | |
| Fenitrothion | mg/kg | < 0.2 | 0.2 | Pass | |
| Fensulfothion | mg/kg | < 0.2 | 0.2 | Pass | |
| Fenthion | mg/kg | < 0.2 | 0.2 | Pass | |
| Malathion | mg/kg | < 0.2 | 0.2 | Pass | |
| Merphos | mg/kg | < 0.2 | 0.2 | Pass | |
| Methyl parathion | mg/kg | < 0.2 | 0.2 | Pass | |
| Mevinphos | mg/kg | < 0.2 | 0.2 | Pass | |
| Monocrotophos | mg/kg | < 2 | 2 | Pass | |
| Naled | mg/kg | < 0.2 | 0.2 | Pass | |
| Omethoate | mg/kg | < 2 | 2 | Pass | |
| Phorate | mg/kg | < 0.2 | 0.2 | Pass | |
| Pirimiphos-methyl | mg/kg | < 0.2 | 0.2 | Pass | |
| Pyrazophos | mg/kg | < 0.2 | 0.2 | Pass | |
| Ronnel | mg/kg | < 0.2 | 0.2 | Pass | |
| Terbufos | mg/kg | < 0.2 | 0.2 | Pass | |
| Tetrachlorvinphos | mg/kg | < 0.2 | 0.2 | Pass | |
| Tokuthion | mg/kg | < 0.2 | 0.2 | Pass | |
| Trichloronate | mg/kg | < 0.2 | 0.2 | Pass | |
| Method Blank | | | | | |
| Heavy Metals | | | | | |
| Arsenic | mg/kg | < 2 | 2 | Pass | |
| Cadmium | mg/kg | < 0.4 | 0.4 | Pass | |
| Chromium | mg/kg | < 5 | 5 | Pass | |
| Copper | mg/kg | < 5 | 5 | Pass | |
| Lead | mg/kg | < 5 | 5 | Pass | |
| Mercury | mg/kg | < 0.1 | 0.1 | Pass | |
| Nickel | iiig/ky | < 5 | 0.1 | 1 435 | |



| Test | Units | Result 1 | Acceptance | Pass Limits | Qualifying Code |
|----------------------------------|-------|----------|------------|----------------|--------------------|
| Zinc | mg/kg | < 5 | 5 | Pass | |
| LCS - % Recovery | | | · · · | | |
| Total Recoverable Hydrocarbons | | | | | |
| TRH C6-C9 | % | 98 | 70-130 | Pass | |
| TRH C10-C14 | % | 82 | 70-130 | Pass | |
| Naphthalene | % | 76 | 70-130 | Pass | |
| TRH C6-C10 | % | 90 | 70-130 | Pass | |
| TRH >C10-C16 | % | 79 | 70-130 | Pass | |
| LCS - % Recovery | | | · · · | | |
| BTEX | | | | | |
| Benzene | % | 99 | 70-130 | Pass | |
| Toluene | % | 117 | 70-130 | Pass | |
| Ethylbenzene | % | 90 | 70-130 | Pass | |
| m&p-Xylenes | % | 94 | 70-130 | Pass | |
| o-Xylene | % | 88 | 70-130 | Pass | |
| Xylenes - Total* | % | 92 | 70-130 | Pass | |
| LCS - % Recovery | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Acenaphthene | % | 95 | 70-130 | Pass | |
| Acenaphthylene | % | 102 | 70-130 | Pass | |
| Anthracene | % | 92 | 70-130 | Pass | |
| Benz(a)anthracene | % | 83 | 70-130 | Pass | |
| Benzo(a)pyrene | % | 99 | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 82 | 70-130 | Pass | |
| Benzo(g.h.i)perylene | % | 95 | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 89 | 70-130 | Pass | |
| Chrysene | % | 104 | 70-130 | Pass | |
| Dibenz(a.h)anthracene | % | 95 | 70-130 | Pass | |
| Fluoranthene | % | 94 | 70-130 | Pass | |
| Fluorene | % | 96 | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | % | 91 | 70-130 | Pass | |
| Naphthalene | % | 101 | 70-130 | Pass | |
| Phenanthrene | % | 103 | 70-130 | Pass | |
| Pyrene | % | 96 | 70-130 | Pass | |
| LCS - % Recovery | | | | | |
| Organochlorine Pesticides | | | | | |
| Chlordanes - Total | % | 108 | 70-130 | Pass | |
| 4.4'-DDD | % | 104 | 70-130 | Pass | |
| 4.4'-DDE | % | 107 | 70-130 | Pass | |
| 4.4'-DDT | % | 108 | 70-130 | Pass | |
| a-HCH | % | 109 | 70-130 | Pass | |
| Aldrin | % | 102 | 70-130 | Pass | |
| b-HCH | % | 112 | 70-130 | Pass | |
| d-HCH | % | 118 | 70-130 | Pass | |
| Dieldrin | % | 111 | 70-130 | Pass | |
| Endosulfan I | % | 102 | 70-130 | Pass | |
| Endosulfan II | % | 121 | 70-130 | Pass | |
| Endosulfan sulphate | % | 96 | 70-130 | Pass | |
| Endrin | % | 112 | 70-130 | Pass | |
| Endrin aldehyde | % | 86 | 70-130 | Pass | |
| Endrin ketone | % | 97 | 70-130 | Pass | |
| g-HCH (Lindane) | % | 108 | 70-130 | Pass | |
| Heptachlor | % | 119 | 70-130 | Pass | |
| Heptachlor epoxide | % | 106 | 70-130 | Pass | |


| Tes | t | | Units | Result 1 | | Acceptance Limits | Pass Limits | Qualifying Code |
|-------------------------------|---------------|----------|----------|----------|-------|----------------------|----------------|--------------------|
| Hexachlorobenzene | | | % | 110 | | 70-130 | Pass | |
| Methoxychlor | | | % | 114 | | 70-130 | Pass | |
| LCS - % Recovery | | | | · | | • | | |
| Organophosphorus Pesticides | | | | | | | | |
| Diazinon | | | % | 121 | | 70-130 | Pass | |
| Dimethoate | | | % | 117 | | 70-130 | Pass | |
| Ethion | | | % | 130 | | 70-130 | Pass | |
| Fenitrothion | | | % | 122 | | 70-130 | Pass | |
| Methyl parathion | | | % | 93 | | 70-130 | Pass | |
| Mevinphos | | | % | 126 | | 70-130 | Pass | |
| LCS - % Recovery | | | | | н н — | | | |
| Heavy Metals | | | | | | | | |
| Arsenic | | | % | 100 | | 80-120 | Pass | |
| Cadmium | | | % | 99 | | 80-120 | Pass | |
| Chromium | | | % | 92 | | 80-120 | Pass | |
| Copper | | | % | 93 | | 80-120 | Pass | |
| Lead | | | % | 100 | | 80-120 | Pass | |
| Mercury | | | % | 100 | | 80-120 | Pass | + |
| Nickel | | | % | 92 | | 80-120 | Pass | |
| Zinc | | | <u>%</u> | 92 | | 80-120 | Pass | |
| | | QA | | | | Acceptance | Pass | Qualifying |
| Test | Lab Sample ID | Source | Units | Result 1 | | Limits | Limits | Code |
| Spike - % Recovery | | | | | | | | |
| Total Recoverable Hydrocarbon | S | | | Result 1 | | | | |
| TRH C6-C9 | R22-Jn0069172 | NCP | % | 116 | | 70-130 | Pass | |
| TRH C10-C14 | N22-JI0004441 | NCP | % | 109 | | 70-130 | Pass | |
| Naphthalene | R22-Jn0069172 | NCP | % | 71 | | 70-130 | Pass | |
| TRH C6-C10 | R22-Jn0069172 | NCP | % | 104 | | 70-130 | Pass | |
| TRH >C10-C16 | N22-JI0004441 | NCP | % | 108 | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | |
| BTEX | | | | Result 1 | | | | |
| Benzene | R22-Jn0069172 | NCP | % | 108 | | 70-130 | Pass | |
| Toluene | R22-Jn0069158 | NCP | % | 114 | | 70-130 | Pass | |
| Ethylbenzene | R22-Jn0069172 | NCP | % | 97 | | 70-130 | Pass | |
| m&p-Xylenes | R22-Jn0069172 | NCP | % | 100 | | 70-130 | Pass | |
| o-Xylene | R22-Jn0069172 | | % | 92 | | 70-130 | Pass | |
| Xylenes - Total* | R22-Jn0069172 | NCP | % | 97 | | 70-130 | Pass | |
| Spike - % Recovery | | | /0 | 01 | | 10 100 | 1 400 | |
| Heavy Metals | | | | Result 1 | | | | |
| Arsenic | S22-JI0007100 | NCP | % | 116 | | 75-125 | Pass | |
| Cadmium | S22-JI0007100 | NCP | % | 97 | | 75-125 | Pass | |
| Chromium | S22-JI0007100 | NCP | % | 118 | | 75-125 | Pass | |
| Copper | S22-JI0007100 | NCP | % | 111 | | 75-125 | Pass | |
| Lead | S22-JI0007100 | NCP | % | 113 | | 75-125 | Pass | |
| Mercury | S22-JI0007100 | NCP | % | 98 | | 75-125 | Pass | + |
| Nickel | S22-JI0007100 | NCP | % | 99 | | 75-125 | Pass | + |
| Zinc | S22-JI0007100 | NCP | % | 100 | | 75-125 | Pass | |
| Spike - % Recovery | 022-010007100 | | 70 | 100 | | 10-120 | 1 435 | |
| Organochlorine Pesticides | | | | Result 1 | | | | |
| Chlordanes - Total | S22-JI0001814 | СР | % | 97 | | 70-130 | Pass | |
| 4.4'-DDD | S22-JI0001814 | CP CP | % | 76 | | 70-130 | Pass | |
| | | CP | <u>%</u> | 96 | | | | |
| 4.4'-DDE | S22-JI0001814 | NCP | <u>%</u> | | | 70-130 | Pass | |
| 4.4'-DDT | S22-Jn0066206 | CP CP | | 118 | | 70-130 | Pass | |
| a-HCH | S22-JI0001814 | - | % | 91 | | 70-130 | Pass | |
| Aldrin | S22-JI0001814 | CP | % | 87 | | 70-130 | Pass | |



| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|----------------------------|----------------------------------|--|----------------------------------|----------------------|--------------------------|------------------------------|--------------------|
| b-HCH | S22-Jn0066206 | NCP | % | 114 | | | 70-130 | Pass | |
| d-HCH | S22-JI0001814 | CP | % | 85 | | | 70-130 | Pass | |
| Dieldrin | S22-JI0001814 | CP | % | 98 | | | 70-130 | Pass | |
| Endosulfan I | S22-JI0001814 | CP | % | 86 | | | 70-130 | Pass | |
| Endosulfan II | S22-JI0001814 | CP | % | 102 | | | 70-130 | Pass | |
| Endosulfan sulphate | S22-JI0001814 | CP | % | 70 | | | 70-130 | Pass | |
| Endrin | S22-JI0001814 | CP | % | 83 | | | 70-130 | Pass | |
| Endrin aldehyde | S22-JI0001814 | CP | % | 75 | | | 70-130 | Pass | |
| Endrin ketone | S22-JI0001814 | CP | % | 93 | | | 70-130 | Pass | |
| g-HCH (Lindane) | S22-Jn0066206 | NCP | % | 99 | | | 70-130 | Pass | |
| Heptachlor | S22-JI0001814 | CP | % | 93 | | | 70-130 | Pass | |
| Heptachlor epoxide | S22-JI0001814 | CP | % | 93 | | | 70-130 | Pass | |
| Hexachlorobenzene | S22-JI0001814 | CP | % | 96 | | | 70-130 | Pass | |
| Spike - % Recovery | | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | | | | | |
| Diazinon | S22-Jn0066206 | NCP | % | 123 | | | 70-130 | Pass | |
| Fenitrothion | S22-Jn0066206 | NCP | % | 126 | | | 70-130 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Duplicate | | | | | | | | - | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | | |
| Zinc | S22-JI0001555 | NCP | mg/kg | 95 | 82 | 15 | 30% | Pass | |
| Duplicate | | | | | | | | - | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S22-JI0001795 | CP | mg/kg | 2.2 | 3.5 | 45 | 30% | Fail | Q15 |
| Cadmium | S22-JI0001795 | СР | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | S22-JI0001795 | СР | mg/kg | 150 | 230 | 42 | 30% | Fail | Q15 |
| Copper | S22-JI0001795 | CP | mg/kg | 21 | 30 | 35 | 30% | Fail | Q15 |
| Lead | S22-JI0001795 | СР | mg/kg | 7.8 | 11 | 32 | 30% | Fail | Q15 |
| Mercury | S22-JI0001795 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | S22-JI0001795 | CP | mg/kg | 80 | 120 | 41 | 30% | Fail | Q15 |
| Duplicate | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | S22-JI0001795 | CP | % | 14 | 15 | 1.7 | 30% | Pass | |
| Duplicate | | | | | | | - | | |
| Polycyclic Aromatic Hydrocarbons | 5 | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | S22-JI0001798 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Acenaphthylene | S22-JI0001798 | СР | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Anthracene | S22-JI0001798 | СР | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benz(a)anthracene | S22-JI0001798 | СР | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(a)pyrene | S22-JI0001798 | СР | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(b&j)fluoranthene | S22-JI0001798 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(g.h.i)perylene | S22-JI0001798 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| | | | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(k)fluoranthene | S22-JI0001798 | CP | my/ky | | | | | | |
| Benzo(k)fluoranthene Chrysene | S22-JI0001798 S22-JI0001798 | CP CP | | | < 0.5 | <1 | 30% | Pass | |
| | S22-JI0001798 S22-JI0001798 S22-JI0001798 | | mg/kg | < 0.5 | < 0.5 < 0.5 | <1 <1 | <u>30%</u> 30% | Pass Pass | |
| Chrysene Dibenz(a.h)anthracene | S22-JI0001798 S22-JI0001798 | CP CP | mg/kg mg/kg | < 0.5 < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chrysene Dibenz(a.h)anthracene Fluoranthene | S22-JI0001798 S22-JI0001798 S22-JI0001798 | CP CP CP | mg/kg mg/kg mg/kg | < 0.5 < 0.5 < 0.5 | < 0.5 < 0.5 | <1 <1 | 30% 30% | Pass Pass | |
| Chrysene Dibenz(a.h)anthracene Fluoranthene Fluorene | S22-JI0001798 S22-JI0001798 S22-JI0001798 S22-JI0001798 | CP CP CP CP | mg/kg mg/kg mg/kg mg/kg | < 0.5 < 0.5 < 0.5 < 0.5 | < 0.5 < 0.5 < 0.5 | <1 <1 <1 | 30% 30% 30% | Pass Pass Pass | |
| Chrysene Dibenz(a.h)anthracene Fluoranthene Fluorene Indeno(1.2.3-cd)pyrene | S22-JI0001798 S22-JI0001798 S22-JI0001798 S22-JI0001798 S22-JI0001798 | CP CP CP CP CP | mg/kg mg/kg mg/kg mg/kg | < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 | < 0.5 < 0.5 < 0.5 < 0.5 | <1 <1 <1 <1 | 30% 30% 30% 30% | Pass Pass Pass Pass | |
| Chrysene Dibenz(a.h)anthracene Fluoranthene Fluorene | S22-JI0001798 S22-JI0001798 S22-JI0001798 S22-JI0001798 | CP CP CP CP | mg/kg mg/kg mg/kg mg/kg | < 0.5 < 0.5 < 0.5 < 0.5 | < 0.5 < 0.5 < 0.5 | <1 <1 <1 | 30% 30% 30% | Pass Pass Pass | |



| Duplicate | | | | | | | | | |
|----------------------------|---------------|----|-------|----------|----------|-----|-----|------|--|
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | S22-JI0001798 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4.4'-DDD | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDE | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDT | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-HCH | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-HCH | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-HCH | S22-JI0001798 | СР | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | S22-JI0001798 | СР | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | S22-JI0001798 | СР | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| g-HCH (Lindane) | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor epoxide | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachlorobenzene | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | S22-JI0001798 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Duplicate | | | | - | | | | | |
| Organophosphorus Pesticide | s | | | Result 1 | Result 2 | RPD | | | |
| Azinphos-methyl | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Bolstar | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorfenvinphos | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos-methyl | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Coumaphos | S22-JI0001798 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Demeton-S | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Demeton-O | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Diazinon | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Dichlorvos | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Dimethoate | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Disulfoton | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| EPN | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethion | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethoprop | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethyl parathion | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fenitrothion | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fensulfothion | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fenthion | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Malathion | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Merphos | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Methyl parathion | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Mevinphos | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Monocrotophos | S22-JI0001798 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Naled | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Omethoate | S22-JI0001798 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Phorate | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Pirimiphos-methyl | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Pyrazophos | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ronnel | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Terbufos | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Tetrachlorvinphos | S22-JI0001798 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |



| | | | Result 1 | Result 2 | RPD | | | |
|---|---|--|--|--|---|---|---|--|
| S22-JI0001798 | CP | ma/ka | | | | 30% | Pass | |
| | | | | 1 1 | | | | |
| | 01 | iiig/kg | 0.2 | V 0.2 | 1 | 0070 | 1 400 | |
| | | | Result 1 | Result 2 | RPD | | | |
| S22-110001800 | CP | ma/ka | | | | 30% | Pass | |
| | | | | | | | | |
| | | | | 1 1 | | | | |
| 322-310001800 | | піу/ку | < 20 | < 20 | <1 | 30 % | газэ | |
| | | | Pocult 1 | Popult 2 | | | 1 | |
| S22 110001900 | СР | malka | | | | 20% | Bass | |
| | | | | | | | | |
| | | | | 1 1 | | | | |
| | | | | 1 1 | | | | |
| | | | | 1 1 | | | | |
| | | | | 1 1 | | | | |
| S22-JI0001800 | CP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |
| | | | | | DDE | | | |
| 000 110 | | | | | | | | |
| | | | | | | | + + | |
| | | | | 1 | | | | |
| | | | | 1 | | | | |
| | | | | | | | 1 1 | |
| | | | | | | | | |
| S22-JI0001801 | CP | mg/kg | < 100 | < 100 | <1 | 30% | Pass | |
| | | | - | 1 1 | | | - | |
| I | | | Result 1 | Result 2 | | | | |
| S22-JI0001805 | CP | % | 13 | 16 | 18 | 30% | Pass | |
| | | | 1 | 1 1 | | 1 | - | |
| I | | | Result 1 | Result 2 | RPD | | | |
| S22-JI0001811 | | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| S22-JI0001811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| S22-JI0001811 | CP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| | | | T | | | 1 | - | |
| | | | Result 1 | Result 2 | RPD | | | |
| S22-JI0001811 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| S22-JI0001811 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| S22-JI0001811 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| S22-JI0001811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| S22-JI0001811 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| S22-JI0001811 | CP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |
| | | | | | | | | |
| 3 | | | Result 1 | Result 2 | RPD | | | |
| S22-JI0002435 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| 022 010002400 | | | 1 | | | | Dees | |
| S22-JI0002435 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| | NCP NCP | mg/kg mg/kg | < 0.5 1.2 | < 0.5 0.7 | <u><1</u> 58 | 30% 30% | Fail | Q15 |
| S22-JI0002435 S22-JI0002435 | | | 1.2 | 0.7 | | | | Q15 |
| S22-JI0002435 S22-JI0002435 S22-JI0002435 | NCP | mg/kg mg/kg | 1.2 < 0.5 | 0.7 < 0.5 | 58 <1 | 30% | Fail | Q15 Q15 |
| S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 | NCP NCP NCP | mg/kg mg/kg mg/kg | 1.2 < 0.5 0.6 | 0.7 < 0.5 < 0.5 | 58 <1 65 | 30% 30% 30% | Fail Pass Fail | |
| S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 | NCP NCP NCP NCP | mg/kg mg/kg mg/kg mg/kg | 1.2 < 0.5 0.6 < 0.5 | 0.7 < 0.5 < 0.5 < 0.5 | 58 <1 65 <1 | 30% 30% 30% 30% | Fail Pass Fail Pass | Q15 |
| S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 | NCP NCP NCP NCP NCP | mg/kg mg/kg mg/kg mg/kg | 1.2 < 0.5 0.6 < 0.5 0.7 | 0.7 < 0.5 < 0.5 < 0.5 < 0.5 | 58 <1 65 <1 63 | 30% 30% 30% 30% 30% | Fail Pass Fail Pass Fail | Q15 Q15 |
| S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 | NCP NCP NCP NCP NCP NCP | mg/kg mg/kg mg/kg mg/kg mg/kg | 1.2 < 0.5 0.6 < 0.5 0.7 1.5 | 0.7 < 0.5 < 0.5 < 0.5 < 0.5 0.8 | 58 <1 65 <1 63 64 | 30% 30% 30% 30% 30% | Fail Pass Fail Pass Fail Fail | Q15 |
| S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 | NCP NCP NCP NCP NCP NCP NCP | mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | 1.2 < 0.5 0.6 < 0.5 0.7 1.5 < 0.5 | 0.7 < 0.5 < 0.5 < 0.5 < 0.5 0.8 < 0.5 | 58 <1 65 <1 63 64 <1 | 30% 30% 30% 30% 30% 30% 30% | Fail Pass Fail Pass Fail Fail Pass | Q15 Q15 Q15 |
| S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 S22-JI0002435 | NCP NCP NCP NCP NCP NCP | mg/kg mg/kg mg/kg mg/kg mg/kg | 1.2 < 0.5 0.6 < 0.5 0.7 1.5 | 0.7 < 0.5 < 0.5 < 0.5 < 0.5 0.8 | 58 <1 65 <1 63 64 | 30% 30% 30% 30% 30% | Fail Pass Fail Pass Fail Fail | Q15 Q15 |
| | S22-JI0001811 S22-JI0001811 S22-JI0001811 S22-JI0001811 S22-JI0001811 S22-JI0001811 S22-JI0001811 | S22-JI0001798 CP S22-JI0001800 CP S22-JI0001801 CP S22-JI0001811 CP S22-JI | S22-JI0001798 CP mg/kg S22-JI0001800 CP mg/kg S22-JI0001801 CP mg/kg S22-JI0001811 CP mg/kg S22-JI0001811 CP mg/kg S22-JI0001811 CP mg/kg S22-JI0001811 CP mg/kg <td>S22-JI0001798 CP mg/kg < 0.2 S22-JI0001800 CP mg/kg < 20</td> S22-JI0001800 CP mg/kg < 0.5 | S22-JI0001798 CP mg/kg < 0.2 S22-JI0001800 CP mg/kg < 20 | S22-JI0001798 CP mg/kg < 0.2 < 0.2 S22-JI0001798 CP mg/kg < 0.2 | S22-JI0001798 CP mg/kg < 0.2 < 0.2 < 1 S22-JI0001798 CP mg/kg < 0.2 | S22-JI0001798 CP mg/kg < 0.2 < 0.2 < 1 30% S22-JI0001798 CP mg/kg < 0.2 | S22-JI0001798 CP mg/kg < 0.2 < 0.2 < 1 30% Pass S22-JI0001798 CP mg/kg < 0.2 |



| Duplicate | | | | | | | | | |
|---------------------------------|--------------------------------|-----|-------|----------|----------|-----|-----|------|-----|
| Polycyclic Aromatic Hydrocarbon | s | | | Result 1 | Result 2 | RPD | | | |
| Naphthalene | S22-JI0002435 | NCP | mg/kg | 0.6 | < 0.5 | 71 | 30% | Fail | Q15 |
| Phenanthrene | S22-JI0002435 | NCP | mg/kg | 4.1 | 1.6 | 64 | 30% | Fail | Q15 |
| Pyrene | S22-JI0002435 | NCP | mg/kg | 2.4 | 1.0 | 65 | 30% | Fail | Q15 |
| Duplicate | | | | 1 | | | | | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | S22-JI0002435 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4.4'-DDD | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDE | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDT | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-HCH | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-HCH | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-HCH | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| g-HCH (Lindane) | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor epoxide | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachlorobenzene | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | S22-JI0002435 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Toxaphene | S22-JI0002435 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Duplicate | | | | 1 | | | | | |
| Organophosphorus Pesticides | 1 | | | Result 1 | Result 2 | RPD | | | |
| Azinphos-methyl | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Bolstar | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorfenvinphos | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos-methyl | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Coumaphos | S22-JI0002435 | NCP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Demeton-S | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Demeton-O | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Diazinon | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Dichlorvos | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Dimethoate | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Disulfoton | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| EPN | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethion | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethoprop | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethyl parathion | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fenitrothion | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fensulfothion | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fenthion | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Malathion | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Merphos | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Methyl parathion | | | | | | | | | |
| Mevinphos | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Mevinphos Monocrotophos | S22-JI0002435 S22-JI0002435 | NCP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Mevinphos | S22-JI0002435 | | | | 1 | | | | |



| Duplicate | | | | | | | | | | | |
|----------------------------|---------------|-----|-------|----------|----------|-----|-----|------|--|--|--|
| Organophosphorus Pesticide | es | | | Result 1 | Result 2 | RPD | | | | | |
| Phorate | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | | | |
| Pirimiphos-methyl | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | | | |
| Pyrazophos | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | | | |
| Ronnel | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | | | |
| Terbufos | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | | | |
| Tetrachlorvinphos | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | | | |
| Tokuthion | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | | | |
| Trichloronate | S22-JI0002435 | NCP | mg/kg | < 0.2 | < 0.2 | <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 |
| N01 | F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis). |
| N02 | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04 | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. |
| N07 | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs |
| Q09 | The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC |

Q15 The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

| Hannah Mawbey | Analytical Services Manager |
|--------------------|-----------------------------|
| Charl Du Preez | Senior Analyst-Organic |
| Gabriele Cordero | Senior Analyst-Metal |
| Roopesh Rangarajan | Senior Analyst-Organic |
| Roopesh Rangarajan | Senior Analyst-Volatile |
| | |

Glenn Jackson General Manager

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.

| • | | C : | Eurofins Envi | | ting Australia | Pty Ltd | | | | | Eurofins ARL Pty Ltd ABN: 91 05 0159 898 | Eurofins Environment Testing NZ Ltd NZBN: 9429046024954 | | |
|-------------|---|--|----------------------------|--------------|--|--------------------|--------------|--|--|---|--|--|--|------------|
| eb: ww | 6 Monterey Road 19/8 Lewalan Street 17/ Dandenong South Grovedale Gir w.eurofins.com.au VIC 3175 VIC 3216 NS tviroSales@eurofins.com NATA# 1261 Site# 1254 NATA# 1261 Site# 1254 NATA# 1261 Site# 1254 | | | | Sydney 179 Mago Girraweer NSW 214 Tel: +61 2 NATA# 12 | n 5 2 9900 8 | 400 | Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 7 | Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 44 NATA# 1261 Site# 25079 | Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 | Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 | |
| | npany Name: dress: | | olutions evel 2, 802 Pa | cific Highwa | ay | | | Re Ph | • | 2467 49 669 559 | | Due: Priority: | Jul 1, 2022 12:36 F Jul 8, 2022 5 Day Kannan Kaliappan | PM |
| | ject Name: ject ID: | 515 CROOK ST-01-1492 | |) KINGSDA | LE NSW 2580 |) | | | | | Euro | fins Analytical Servic | es Manager : Hanr | nah Mawbey |
| | | | ample Detail | | | | Moisture Set | Eurofins Suite B10 | | | | | | |
| | ey Laboratory - | | Site # 18217 | | | | X | Х | 4 | | | | | |
| Exter No | nal Laboratory Sample ID | Sample Date | Sampling Time | Matrix | LAB | BID | | | - | | | | | |
| | ST-01-1492- BH01 (0.2M) | Jun 27, 2022 | | Soil | S22-JI00 | 01794 | х | х | | | | | | |
| | ST-01-1492- BH01 (0.7M) | Jun 27, 2022 | | Soil | S22-JI00 | | х | х | | | | | | |
| _ | ST-01-1492- BH01 (1.0M) | Jun 27, 2022 | | Soil | S22-JI00 | | x | х | - | | | | | |
| | BH02 (0.2M) | Jun 27, 2022 | | Soil | S22-JI00 | | x | Х | - | | | | | |
| 5 | ST-01-1492- BH02 (0.4M) | Jun 27, 2022 | | Soil | S22-JI00 | | х | Х | - | | | | | |
| | - (-) | | | Call | IS22-JI00 | 01799 | x | х | | | | | | |
| 6 | ST-01-1492- BH03 (0.2M) | Jun 27, 2022 | | Soil | | | | | 4 | | | | | |
| 6 7 | ST-01-1492- BH03 (0.2M) | Jun 27, 2022 Jun 27, 2022 Jun 27, 2022 | | Soil | S22-JI00 S22-JI00 | | x | Х | - | | | | | |

| | Eurofins Environment Testing Australia ABN: 50 005 085 521 Melbourne Geelong | | | | | | | | | Eurofins ARL Pty Ltd ABN: 91 05 0159 898 | Eurofins Environm NZBN: 9429046024954 | - |
|---|--|---|--|---------|---------------------|--------------------|--|--|---|--|--|--|
| veb: www.eurofins.com.au email: EnviroSales@eurofins.c | | Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 | Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 54 NATA# 1261 Site# 123 | | n 5 : 9900 84 | 400 | Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 7 | Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 44 NATA# 1261 Site# 25079 | Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 | Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 |
| Company Name: Address: | K2 Enviro S Suite 1A, Le Gordon NSW 2768 | Solutions evel 2, 802 Pacific | Highway | | | Re Ph | • | 2467 19 669 559 | | Due: Priority: | Jul 1, 2022 12:36 F Jul 8, 2022 5 Day Kannan Kaliappan | ΡM |
| Project Name: Project ID: | 515 CROO ST-01-1492 | | NGSDALE NSW 258 | 80 | | | | | Euro | fins Analytical Service | es Manager : Hanr | nah Mawbey |
| | S | ample Detail | | | Moisture Set | Eurofins Suite B10 | | | | | | |
| Sydney Laboratory - | NATA # 1261 | Site # 18217 | | | х | Х | | | | | | |
| 9 ST-01-1492- BH04 (0.4M) | Jun 27, 2022 | Soil | S22-JIC | 0001802 | х | х | | | | | | |
| 10 ST-01-1492- BH07 (0.2M) | Jun 27, 2022 | Soil | | 0001803 | х | х | | | | | | |
| 11 ST-01-1492- BH07 (0.4M) | Jun 27, 2022 | Soil | S22-JIC | 0001804 | х | х | | | | | | |
| 12 ST-01-1492- BH08 (0.2M) | Jun 27, 2022 | Soil | S22-JIC | 0001805 | х | х | | | | | | |
| 13 ST-01-1492- BH08 (0.4M) | Jun 27, 2022 | Soil | S22-JIC | 0001806 | х | х | | | | | | |
| | Jun 27, 2022 | Soil | S22-JIC | 0001807 | х | х | | | | | | |
| | Jun 27, 2022 | Soil | S22-JIC | 0001808 | х | х | | | | | | |
| 16 ST-01-1492- BH11 (0.2M) | Jun 27, 2022 | Soil | S22-JIC | 0001809 | х | х | | | | | | |
| 17 ST-01-1492- BH11 (0.4M) | Jun 27, 2022 | Soil | S22-JIC | 0001810 | х | х | | | | | | |
| | | | | | | | | | | | | |

| • | 0.000 | files | Eurofins Environm ABN: 50 005 085 521 | ent Testing Australia | Pty Ltd | | | | | Eurofins ARL Pty Ltd ABN: 91 05 0159 898 | Eurofins Environment Testing NZ Ltd NZBN: 9429046024954 | | |
|----------|--|--|--|--|---------|--|---|---|--|--|--|------------|--|
| eb: w | 6 Monterey Road 19/8 Lewalan Street 179 Dandenong South Grovedale Girr VIC 3175 VIC 3216 NSV | | | Sydney 179 Magowa Girraween NSW 2145 Tel: +61 2 9 NATA# 126 | 900 840 | Mitchell ACT 2911 0 Tel: +61 2 6113 8091 | Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 2075 | Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 94 NATA# 1261 Site# 25079 | Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 | Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 | | |
| | ompany Name: Idress: | K2 Enviro S Suite 1A, L Gordon NSW 2768 | evel 2, 802 Pacific I | Highway | | | • | 2467 49 669 559 | | Received: Due: Priority: Contact Name: | Jul 1, 2022 12:36 F Jul 8, 2022 5 Day Kannan Kaliappan | PM | |
| | oject Name: oject ID: | 515 CROO ST-01-1492 | | GSDALE NSW 2580 |) | | | | Euro | fins Analytical Servic | es Manager : Hanr | nah Mawbey | |
| | | s | ample Detail | | | Moisture Set | Furofios Suite B10 | | | | | | |
| | ney Laboratory | | | | | X | x | | | | | | |
| 8 | ST-01-1492- SS01 | Jun 27, 2022 | Soil | S22-JI00 | 01811 | | | | | | | | |
| 9 | ST-01-1492- SS02 | Jun 27, 2022 | Soil | S22-JI00 | 01812 | х | x | | | | | | |
| | ST-01-1492- SS03 | Jun 27, 2022 | Soil | S22-JI00 | 01813 | х | x | | | | | | |
| 20 | 0000 | | | | 04044 | | | | | | | | |
| 20 21 | ST-01-1492- BR1 | May 26, 2022 | Soil | S22-JI00 | 01814 | X | X | | | | | | |



Eurofins Environment Testing Australia Pty Ltd

| ABN: 50 005 085 521 | | |
|-----------------------|-----------------------|------------------------|
| Melbourne | Geelong | Sydney |
| 6 Monterey Road | 19/8 Lewalan Street | 179 Magowar Road |
| Dandenong South | Grovedale | Girraween |
| VIC 3175 | VIC 3216 | NSW 2145 |
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| NATA# 1261 Site# 1254 | NATA# 1261 Site# 1254 | NATA# 1261 Site# 18217 |

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ABN: 91 05 0159 898 Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370

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IANZ# 1327

EnviroSales@eurofins.com

Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290

Sample Receipt Advice

| Company name: | K2 Enviro Solutions |
|--------------------|---------------------------------------|
| Contact name: | Kannan Kaliappan |
| Project name: | 515 CROOKWELL ROAD KINGSDALE NSW 2580 |
| Project ID: | ST-01-1492 |
| Turnaround time: | 5 Day |
| Date/Time received | Jul 1, 2022 12:36 PM |
| Eurofins reference | 902467 |

Sample Information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table. 1
- 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. J
- X Split sample sent to requested external lab.
- X 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:

Hannah Mawbey on phone : or by email: HannahMawbey@eurofins.com

Results will be delivered electronically via email to Kannan Kaliappan - kannan@k2envirosolutions.com.au.

Global Leader - Results you can trust

| ny | K2 CONSULTING GROU | JP | Proj | ject Na | ST-01-1492 | | | Project Manager | KANNAN | ALIAPPAN | | Sampler(s) | KA | NNAN KAI | LAPPAN | Emilen |
|---------------|-------------------------|----------------------------|----------------------|---|---------------|------------------|-----------|------------------------------|-----------|----------|---|---|--------------------------------|---|--|---|
| \$5 | SUITE 222 LEVEL 2, 205 | B LEXINGTON DRIVE, BEL | Proje | ot Name | 515 Crookw | il Road, Kingsda | NSW 2580 | EOD Format EStat EQUIS et | | | | Handed over by | | | | Ernail |
| ness | VISTA NSW 2153 | | | Zn, Hg) | | | | | | | | Email for Invoic | ka | nnan@ | k2consultinggroup.com.au | Vectured |
| t Name | KANNAN KALIAPPAN | | | и, N', Pb, | | | | | | | | Email for Result | ka | nnan@ | k2consullinggroup.com.au | 5.00 |
| ne Ne | 61449669559 | | | C, C, | | | | | | | | Co Change containe | ntainers Noe 5 size frie | or sary | Required Turnaround Time (TAT) Design at the 5 days if politiked. | 20/6 |
| Pirections | | | As.Cd | B10 Lats (As, (| | | | | | | | | | lines) | Overnight (reporting by Sern) | e-coc Email-sent vecened 30/6 10:44 AM |
| se Order | | | | SUITE OPP, Ma | | | | | | | | 8 8 8 | Tal Cottle | IDPE) WA Guide | □ Same day● □ 1 day● □ 2 days● □ 3 days● | 10:44 AM |
| ID Nº | | | - | H, OCP, | | | | | | | | 500mL Plastic 259mL Plastic 125mL Plastic | 40mL VOA vial 0mL PFAS Both | Jar (Glass or HDPE) (sbestos A34964, WA Gald | 5 days (Standard) Other(| |
| | | Sampted | Matrix | SUITE B10 TRH, BTEXN, PAH, OCP, OPP, Malab (As, Cd, Cr, Cu, N, Pb, Zn, | | | | | | | | 25 25 | 40r 500ml | Jar (G | 4 | ~ |
| | Client Sample ID | Date/Time oc.mm/y/thimn | Sala (S) Newr (N) | TRH, BI | | | | | E | | | | | Other | Sample Comments / Dangerous Goods Hazard Warning | Decasta |
| | 3T-01-1492-BH01 (0.2m) | 27.86.2022/ 10:00 | 8 | X | | | | | | | | | | 1 | | Pecenel 01/07 |
| 1 | 3T-01-1492-BH01 (0.7m) | 27.06.2022/ 10:00 | \$ | X | | | | | | | | | | 1 | HOLD | 01/07 |
| 1 | ST-01-1492-BH01 (1.0m) | 27.06.2022/ 10:00 | S | X | | | | | | | | | | 1 | HOLD | 2/04 |
| 8 | 3T-01-1492-8H02 (0.2m) | 27.06.2022/ 10:00 | s | X | | | | | | | | | | 1 | | 1250PM |
| 8 | 1T-01-1492-BH02 (0,4m) | 27,96,2022/ 10:00 | 5 | X | | | | | | | | | | 1 | HOLD | John Dome |
| 1 | 17-01-1492-BH03 (0.2m) | 27,06,2022/ 10:00 | s | X | | | | | | | | | | 1 | | Kelvin Foorg |
| | 17-91-1492-BH03 (0.5m) | 27.06.2022/ 10:00 | s | X | | | | | | | | | | 1 | HOLD | Counter |
| 5 | iT-01-1492-IBH04 (0.2m) | 27,06,2022/ 10:00 | 3 | X | | | | | | | | | | 1 | | ilpol. |
| ş | iT-01-1492-BH04 (0.4m) | 27.06,2022/ 10:00 | 8 | X | | | | | | | | | | 1 | HOLD | chine |
| ę | iT-01-1492-BH07 (0.2m) | 27,06,2022/ 10:00 | s | X | | | | | | | | | | 1 | | |
| E | 17-01-1492-BH07 (0,4m) | 27,08,2022/ 10:00 | 5 | X | | | | | | | | | | 1 | HOLD | 13,86-1.20 |
| 8 | T-01-1492-BH08 (0.2m) | 27.06.2022/ 10:00 | 8 | X | | | | | | | | | | 1 | | ~ |
| 8 | T-01-1492-BH08 (0.4m) | 27.06.2022/ 10:00 | 8 | X | | | | | | | | | | 1 | HOLD | 5 65 |
| 8 | T-01-1492-8H09 (0.2m) | 27.06.2022/ 10:00 | \$ | X | | | | | | | | | | 1 | | ([|
| 8 | T-01-1492-BH10 (0,2m) | 27,06,2022/ 10:00 | S | X | | | | | | | | | | 1 | | ā |
| 5 | T-01-1492-BH11 (0.2m) | 27.96,2022/ 10:00 | 8 | X | | | | | | | - | | | 1 | | 12 -36 PM Kelun Puong Counter chilled. 13,8°C - 1.26 12.6°C Sto TAT |
| 8 | T-01-1492-BH11 (0.4m) | 27.96,2022/ 10:00 | s | X | | | | | | | | | | 1 | HOLD | STO TAT |
| | ST-01-1492-8501 | 27,06,2022/ 10:00 | S | X | | | | | | | | | | 1 | | |
| | ST-01-1492-SB02 | 27.96.2022/ 10:00 | 8 | X | | | | | | | | | | 1 | HOLD | HOADING |
| | ST-01-1492-SS03 | 27.06,2022/ 10:00 | s | X | | | | | | | | | | 1 | | #902467 |
| | ST-01-1493-BR1 | 26,05,2022/ 69:00 | 5 | X | | | | | | | | | | 6 | | |
| | | Total Count | 5 | 10 | | | | | | | | | | 21 | | |
| od af nent | Courier (# |) D H | and Defivered | 0 | Postal | Name | KANNAN | KALJAPPAN | Signature | April | | Date | 30th Jun | e 2022 | Time 9:45am | |
| ory Use O | Received By | | | SYD BNE | MEL PER A | ol NTL ORW | Signatura | | | Date | | Time | | | Temperature | |



K2 Enviro Solutions Suite 1A, Level 2, 802 Pacific Highway Gordon NSW 2768





NATA Accredited Accreditation Number 1261 Site Number 18217

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

Attention:

Kannan Kaliappan

Report Project name Project ID Received Date 908025-S ADDITIONAL-515 CROOKWELL ROAD KINGSDALE NSW 2580

ST-01-1492 Jul 21, 2022

| Client Sample ID | | | ST-01-1492- BH08 (0.4M) |
|---|------|----------|----------------------------|
| Sample Matrix | | | Soil |
| Eurofins Sample No. | | | S22-JI0045903 |
| Date Sampled | | | Jun 27, 2022 |
| Test/Reference | LOR | Unit | |
| | _ | _ | |
| % Clay | 1 | % | 49 |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | 10 | uS/cm | 830 |
| pH (1:5 Aqueous extract at 25 °C as rec.) | 0.1 | pH Units | 4.5 |
| % Moisture | 1 | % | 24 |
| Cation Exchange Capacity | | | |
| Cation Exchange Capacity | 0.05 | meq/100g | 19 |



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 |
|---|---------------------|--------------|--------------|
| % Clay | Brisbane | Jul 27, 2022 | 14 Days |
| - Method: LTM-GEN-7040 | | | |
| pH (1:5 Aqueous extract at 25 °C as rec.) | Sydney | Jul 22, 2022 | 7 Days |
| - Method: LTM-GEN-7090 pH by ISE | | | |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | Melbourne | Jul 26, 2022 | 7 Days |
| - Method: LTM-INO-4030 Conductivity | | | |
| Cation Exchange Capacity | Melbourne | Jul 26, 2022 | 28 Days |
| - Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage | | | |
| % Moisture | Sydney | Jul 22, 2022 | 14 Days |
| | | | |

- Method: LTM-GEN-7080 Moisture

| • | 0.0.40 | 6: | Eurofins Env ABN: 50 005 08 | | ting Australia P | ty Ltd | | | | | | Eurofins ARL Pty Ltd ABN: 91 05 0159 898 | NZBN: 9429046024954 | ent Testing NZ Lto |
|------------|---|-------------------------|--|--------------------------------------|-----------------------------|--|--------------------|---|------------------------|--------------------------|---|--|--|--|
| web: wv | WW.eurofins.com.au | | Melbourne 6 Monterey Roa Dandenong Sou VIC 3175 Tel: +61 3 8564 NATA# 1261 Si | uth Groved VIC 32 5000 Tel: +6 | ewalan Street dale 16 | Sydney 179 Mago Girrawee NSW 214 Tel: +61 2 NATA# 1 | n 5 2 9900 8 | 8400 | Mitch ACT Tel: + | 1,2 Dac ell | Murarrie Mayfield East NSW 2304 QLD 4172 PO Box 60 Wickham 229 | Tel: +61 8 6253 4444 | Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 |
| | Company Name: K2 Enviro Solutions Address: Suite 1A, Level 2, 802 Pacific Highway Gordon NSW 2768 | | | | | | R | rder N eport hone: ax: | #: | 908025 0449 669 559 | Received: Due: Priority: Contact Name: | Jul 21, 2022 3:28 P Jul 28, 2022 5 Day Kannan Kaliappan | Μ | |
| | oject Name: oject ID: | ADDITIONA ST-01-1492 | | OKWELL ROA | AD KINGSDAL | E NSW | / 2580 |) | | | Eur | ofins Analytical Servio | ces Manager : Hann | ah Mawbey |
| | | Sa | ample Detail | I | | | % Clay | pH (1:5 Aqueous extract at 25 °C as rec.) | Moisture Set | Cation Exchange Capacity | | | | |
| Melb | ourne Laborato | ory - NATA # 12 | 261 Site # 12 | 254 | | | | | х | х | | | | |
| | ney Laboratory | | | | | | | Х | х | | | | | |
| | bane Laborator | | 1 Site # 207 | 94 | | | Х | | | | | | | |
| Exte No | rnal Laboratory Sample ID | Sample Date | Sampling Time | Matrix | LAB | ID | | | | | | | | |
| 1 | ST-01-1492- BH08 (0.4M) | Jun 27, 2022 | 10:00AM | Soil | S22-JI004 | 5903 | х | х | х | x | | | | |
| | Counts | | | | | | 1 | 1 | 1 | 1 | | | | |



Internal Quality Control Review and Glossary

General

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

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

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

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

Units

| U IIIIU | | |
|----------------------------------|---|---|
| mg/kg: milligrams per kilogram | mg/L: milligrams per litre | μg/L: micrograms per litre |
| ppm: parts per million | ppb: parts per billion | %: Percentage |
| org/100 mL: Organisms per 100 mi | lilitres NTU: Nephelometric Turbidity Units | MPN/100 mL: Most Probable Number of organisms per 100 millilitres |
| | | |

Terms

| Terms | |
|------------------|--|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| твто | Tributyltin oxide (bis-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 be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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



Quality Control Results

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | | |
|---|---------------|--------------|----------|----------|----------------------|----------------|----------------------|----------------|--------------------|
| Method Blank | | | | | | | | | |
| Cation Exchange Capacity | | | | | | | | | |
| Cation Exchange Capacity | | | meq/100g | < 0.05 | | | 0.05 | Pass | |
| LCS - % Recovery | | | | | | | | | |
| % Clay | | | % | 97 | | | 70-130 | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
| Duplicate | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| Conductivity (1:5 aqueous extract at 25 °C as rec.) | M22-JI0050479 | NCP | uS/cm | 260 | 270 | 2.9 | 30% | Pass | |
| pH (1:5 Aqueous extract at 25 °C as rec.) | S22-JI0043773 | NCP | pH Units | 7.1 | 7.2 | <1 | 30% | Pass | |
| % Moisture | S22-JI0046197 | NCP | % | 17 | 16 | 5.1 | 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:

Quinn Raw Scott Beddoes Jonathon Angell Ryan Phillips Charl Du Preez Scott Beddoes

Analytical Services Manager Senior Analyst-Metal Senior Analyst-Inorganic Senior Analyst-Inorganic Senior Analyst-Sample Properties Senior Analyst-Inorganic

Glenn Jackson

General Manager

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.



K2 Enviro Solutions Suite 1A, Level 2, 802 Pacific Highway Gordon NSW 2768





NATA Accredited Accreditation Number 1261 Site Number 18217

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

Attention:

-INV'S & STMNTS - Kannan Kaliappan

Report Project name Project ID Received Date 907245-L ADDITIONAL - 515 CROOKWELL ROAD KINGSDALE ADDITIONAL - ST-01-1492 Jul 18, 2022

| Client Sample ID | | | ST-01-1492- BH01 (0.2m) | ST-01-1492- BH01 (1.0m) | ST-01-1492- BH02 (0.4m) | ST-01-1492- BH03 (0.2m) |
|-------------------------------|-------|----------|----------------------------|----------------------------|----------------------------|----------------------------|
| Sample Matrix | | | AUS Leachate | AUS Leachate | AUS Leachate | AUS Leachate |
| Eurofins Sample No. | | | S22-JI0040102 | S22-JI0040103 | S22-JI0040104 | S22-JI0040105 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| | | | | | | |
| Chromium (hexavalent) | 0.005 | mg/L | < 0.005 | < 0.005 | 0.010 | < 0.005 |
| Chromium (trivalent) | 0.005 | mg/L | 0.35 | < 0.05 | 0.18 | 0.16 |
| Heavy Metals | | | | | | |
| Chromium | 0.05 | mg/L | 0.35 | < 0.05 | 0.19 | 0.16 |
| AUS Leaching Procedure | | | | | | |
| Leachate Fluid ^{C01} | | comment | 4.0 | 4.0 | 4.0 | 4.0 |
| pH (initial) | 0.1 | pH Units | 6.7 | 7.0 | 7.9 | 7.4 |
| pH (Leachate fluid) | 0.1 | pH Units | 6.0 | 6.0 | 6.0 | 6.0 |
| pH (off) | 0.1 | pH Units | 6.0 | 4.3 | 7.1 | 6.4 |

| Client Sample ID | | | ST-01-1492- BH04 (0.4m) | ST-01-1492- BH08 (0.2m) | ST-01-1492- BH11 (0.2m) | ST-01-1492- SS02 |
|-------------------------------|-------|----------|----------------------------|----------------------------|----------------------------|---------------------|
| Sample Matrix | | | AUS Leachate | AUS Leachate | AUS Leachate | AUS Leachate |
| Eurofins Sample No. | | | S22-JI0040106 | S22-JI0040107 | S22-JI0040108 | S22-JI0040109 |
| Date Sampled | | | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 | Jun 27, 2022 |
| Test/Reference | LOR | Unit | | | | |
| | | | | | | |
| Chromium (hexavalent) | 0.005 | mg/L | 0.011 | 0.014 | 0.016 | < 0.005 |
| Chromium (trivalent) | 0.005 | mg/L | 0.20 | 0.11 | 0.044 | < 0.05 |
| Heavy Metals | | | | | | |
| Chromium | 0.05 | mg/L | 0.21 | 0.12 | 0.06 | < 0.05 |
| AUS Leaching Procedure | | | | | | |
| Leachate Fluid ^{C01} | | comment | 4.0 | 4.0 | 4.0 | 4.0 |
| pH (initial) | 0.1 | pH Units | 7.7 | 6.4 | 7.1 | 8.0 |
| pH (Leachate fluid) | 0.1 | pH Units | 6.0 | 6.0 | 6.0 | 6.0 |
| pH (off) | 0.1 | pH Units | 6.8 | 5.0 | 5.4 | 4.4 |

| | | C : | Eurofins Env | rironment Testing | Australia P | ty Ltd | | | | | | Eurofins ARL Pty Ltd ABN: 91 05 0159 898 | Eurofins Environm NZBN: 9429046024954 | - |
|---|----------------------------|---|--|---|------------------------|--|----------------------|----------|--|--|--|--|--|--|
| 6 Monterey Dandenong VIC 3175 Tel: +61 3 8 | | | Melbourne 6 Monterey Road Dandenong Sou VIC 3175 Tel: +61 3 8564 | d 19/8 Lewals th Grovedale VIC 3216 | an Street 3564 5000 | Sydney 179 Mago Girraweer NSW 214 Tel: +61 2 NATA# 12 | n 5 2 9900 8 | 3400 | Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 7 | Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794 | Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 4 NATA# 1261 Site# 25079 | Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 | Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 |
| | mpany Name: dress: | K2 Enviro S Suite 1A, Le Gordon NSW 2768 | | acific Highway | | | | Re Pl | • | 245 9 669 559 | | Due: Priority: | Jul 18, 2022 11:12 Jul 25, 2022 5 Day -INV'S & STMNTS | |
| | oject Name: oject ID: | | NL - 515 CRO NL - ST-01-14 | OKWELL ROAD 92 |) KINGSDA | LE | | | | | Euro | fins Analytical Servic | es Manager : Hanr | nah Mawbey |
| Sample Detail | | | | | | AUS Leaching Procedure | Chromium (speciated) | | | | | | | |
| Sydı | ney Laboratory - | - NATA # 1261 | Site # 18217 | 7 | | | Х | Х | | | | | | |
| | rnal Laboratory | | Comelle | Motrice | | 10 | | | 4 | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB | | | | - | | | | | |
| 1 | ST-01-1492- BH01 (0.2m) | Jun 27, 2022 | | AUS Leachate | | | х | х | - | | | | | |
| 2 | ST-01-1492- BH01 (1.0m) | Jun 27, 2022 | | AUS Leachate | S22-JI004 | 0103 | х | х | | | | | | |
| 3 | ST-01-1492- BH02 (0.4m) | Jun 27, 2022 | | AUS Leachate | S22-JI004 | 0104 | х | Х | | | | | | |
| 4 | ST-01-1492- BH03 (0.2m) | Jun 27, 2022 | | AUS Leachate | S22-JI004 | 0105 | х | х | | | | | | |
| 5 | ST-01-1492- BH04 (0.4m) | Jun 27, 2022 | | AUS Leachate | S22-JI004 | 0106 | х | х | | | | | | |
| 6 | ST-01-1492- BH08 (0.2m) | Jun 27, 2022 | | AUS Leachate | S22-JI004 | 0107 | х | х | | | | | | |
| 7 | ST-01-1492- BH11 (0.2m) | Jun 27, 2022 | | AUS Leachate | S22-JI004 | 0108 | х | х | | | | | | |
| 8 | ST-01-1492- SS02 | Jun 27, 2022 | | AUS Leachate | S22-JI004 | 0109 | х | х |] | | | | | |

| ••• ourof | Eurofins Environme ABN: 50 005 085 521 | rofins Environment Testing Australia Pty Ltd N: 50 005 085 521 | | | | | | | Eurofins ARL Pty LtdEurofins EnvironmerABN: 91 05 0159 898NZBN: 9429046024954 | | |
|---|--|--|--|--|----------------------|---|---|---|--|--|--|
| veb: www.eurofins.com.au mail: EnviroSales@eurofins.co | | Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Sydney 179 Magowar Girraween NSW 2145 Tel: +61 2 990 NATA# 1261 | 0 8400 | Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 17 | Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 2075 | Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 24 NATA# 1261 Site# 25079 | Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370 | Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 |
| Company Name: Address: | K2 Enviro S Suite 1A, L Gordon NSW 2768 | evel 2, 802 Pacific H | lighway | | R | • | 7245 49 669 559 | | Received: Due: Priority: Contact Name: | Jul 18, 2022 11:12 / Jul 25, 2022 5 Day -INV'S & STMNTS - | |
| Project Name: Project ID: | - | AL - 515 CROOKWI AL - ST-01-1492 | ELL ROAD KINGSD | ALE | | | | Euro | fins Analytical Servic | es Manager : Hann | ah Mawbey |
| | | | | AUS Les | Chromiu | | | | | | |
| | S | Sample Detail | | Leaching Procedure | Chromium (speciated) | | | | | | |
| Sydney Laboratory - I | | | | | | | | | | | |



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 |
|--|--------------|--------------|--------------|
| Chromium (speciated) | - | | _ |
| Chromium (hexavalent) | Sydney | Jul 22, 2022 | 28 Days |
| - Method: In-house method E057.2 | | | |
| Chromium (trivalent) | Sydney | Jul 20, 2022 | 28 Days |
| - Method: E043 /E057 Total Speciated Chromium | | | |
| Heavy Metals | Sydney | Jul 22, 2022 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| AUS Leaching Procedure | Sydney | Jul 22, 2022 | 7 Days |
| | | | |

- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes

| | Eurofins Environment Testing Australia Pty I ABN: 50 005 085 521 | | | | | | | | | | | Eurofins ARL Pty Ltd ABN: 91 05 0159 898 | Eurofins Environm NZBN: 9429046024954 | - |
|------------|--|---------------|-----------------------------|---|--|------------------------|---|---|--|---|--|--|--|------------|
| web: w | Dandenong South Grovedale Girrawe VIC 3175 VIC 3216 NSW 2 | | | 9 Magowar rraween SW 2145 I: +61 2 990 | agowar Road Unit 1,2 Dacre Street 1/21 Smallwood Place 4/52 Industrial Drive een Mitchell Murarrie Mayfield East NSW 2304 1/14 ACT 2911 QLD 4172 PO Box 60 Wickham 2291 1 2 9900 8400 Tel: +61 2 6113 8091 Tel: +61 7 3902 4600 Tel: +61 2 4968 8448 | | | | | Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 | Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 | | |
| | Company Name:K2 Enviro SolutionsAddress:Suite 1A, Level 2, 802 Pacific HighwayGordonNSW 2768 | | | | | | | Order No.: Report #: Phone: Fax: | | 245 9 669 559 | Received: Due: Priority: Contact Name: | Jul 18, 2022 11:12 AM Jul 25, 2022 5 Day -INV'S & STMNTS - Kannan | | |
| | oject Name: oject ID: | | L - 515 CRO L - ST-01-14 | OKWELL ROAD 92 |) KINGSDALE | Ξ | | | | | Eur | ofins Analytical Servic | es Manager : Hanr | nah Mawbev |
| | Sample Detail | | | | | AUS Leaching Procedure | | | | | | | | |
| Syd | ney Laboratory | - NATA # 1261 | Site # 18217 | , | | > | | x | | | | | | |
| Exte No | ernal Laboratory Sample ID | / Sample Date | Sampling Time | Matrix | LAB ID | | | _ | | | | | | |
| 1 | ST-01-1492- BH01 (0.2m) | Jun 27, 2022 | TIME | AUS Leachate | S22-JI00401 | 02 > | (| x | | | | | | |
| 2 | ST-01-1492- BH01 (1.0m) | Jun 27, 2022 | | AUS Leachate | S22-JI00401 | 03 > | (| x | | | | | | |
| 3 | ST-01-1492- BH02 (0.4m) | Jun 27, 2022 | | AUS Leachate | S22-JI00401 | 04 | (| x | | | | | | |
| 4 | ST-01-1492- BH03 (0.2m) | Jun 27, 2022 | | AUS Leachate | | | (| x | | | | | | |
| 5 | ST-01-1492- BH04 (0.4m) | Jun 27, 2022 | | AUS Leachate | | | (| x | | | | | | |
| 6 | ST-01-1492- BH08 (0.2m) | Jun 27, 2022 | | AUS Leachate | | | | x | | | | | | |
| 7 | ST-01-1492- BH11 (0.2m) | Jun 27, 2022 | | AUS Leachate | | | | x | | | | | | |
| 8 | ST-01-1492- SS02 | Jun 27, 2022 | | AUS Leachate | S22-JI00401 | ⁰⁹ > | (| x | | | | | | |

| | inc | Eurofins Environme ABN: 50 005 085 521 | nt Testing Australia | Pty Ltd | | | | | | Eurofins ARL Pty Ltd ABN: 91 05 0159 898 | Eurofins Environm NZBN: 9429046024954 | • |
|---|--|--|--|---|------------------------|----------------------|--|---|---|---|--|--|
| web: www.eurofins.com.au email: EnviroSales@eurofins.c | | Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 | Sydney 179 Magow Girraween NSW 2145 Tel: +61 2 9 NATA# 126 | 900 84 | 00 | Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 7 | Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 2079 | Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 94 NATA# 1261 Site# 25079 | Tel: +61 8 6253 4444 | Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327 | Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290 |
| Company Name: Address: | K2 Enviro S Suite 1A, L Gordon NSW 2768 | evel 2, 802 Pacific H | lighway | | | Re Př | • | 7245 49 669 559 | | Received: Due: Priority: Contact Name: | Jul 18, 2022 11:12 Jul 25, 2022 5 Day -INV'S & STMNTS | |
| Project Name: Project ID: | | AL - 515 CROOKWE AL - ST-01-1492 | ELL ROAD KINGSD | ALE | | | | | Euro | ofins Analytical Servic | ces Manager : Hann | ah Mawbey |
| | s | ample Detail | | | AUS Leaching Procedure | Chromium (speciated) | | | | | | |
| | | | | | ure | | | | | | | |
| Sydney Laboratory - | NATA # 126' | | | | JIFE | x | | | | | | |



Internal Quality Control Review and Glossary

General

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

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

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

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

Units

| enits | | |
|---|------------------------------------|---|
| mg/kg: milligrams per kilogram | mg/L: milligrams per litre | µg/L: micrograms per litre |
| ppm: parts per million | ppb: parts per billion | %: Percentage |
| org/100 mL: Organisms per 100 millilitres | NTU: Nephelometric Turbidity Units | MPN/100 mL: Most Probable Number of organisms per 100 millilitres |
| | | |

Terms

| Terms | |
|------------------|---|
| APHA | American Public Health Association |
| COC | Chain of Custody |
| CP | Client Parent - QC was performed on samples pertaining to this report |
| CRM | Certified Reference Material (ISO17034) - reported as percent recovery. |
| Dry | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| Duplicate | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| LOR | Limit of Reporting. |
| LCS | Laboratory Control Sample - reported as percent recovery. |
| Method Blank | In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water. |
| NCP | Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within. |
| RPD | Relative Percent Difference between two Duplicate pieces of analysis. |
| SPIKE | Addition of the analyte to the sample and reported as percentage recovery. |
| SRA | Sample Receipt Advice |
| Surr - Surrogate | The addition of a like compound to the analyte target and reported as percentage recovery. |
| твто | Tributyltin oxide (bis-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 be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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



Quality Control Results

| Test | | | | | | | Acceptance Limits | Pass Limits | Qualifying Code | | |
|-----------------------|---------------|--------------|--------|----------|----------|------|----------------------|----------------|--------------------|--|--|
| Method Blank | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Chromium | | mg/L | < 0.05 | | | 0.05 | Pass | | | | |
| LCS - % Recovery | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Chromium | | | % | 104 | | | 80-120 | Pass | | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | | |
| Spike - % Recovery | | | | | | | | | | | |
| Heavy Metals | | | | Result 1 | | | | | | | |
| Chromium | S22-JI0040102 | CP | % | 114 | | | 75-125 | Pass | | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | | |
| Duplicate | | | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | | | |
| Chromium (hexavalent) | S22-JI0040105 | CP | mg/L | < 0.005 | < 0.005 | <1 | 30% | Pass | | | |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | Result 1 | Result 2 | RPD | | | | | |
| Chromium | S22-JI0040109 | CP | mg/L | < 0.05 | < 0.05 | <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

Description

Code

C01 Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised by:

Quinn Raw Charl Du Preez Ryan Phillips Analytical Services Manager Senior Analyst-Metal Senior Analyst-Inorganic

Glenn Jackson General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please click here.

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Sample Receipt Advice

| Company name: | K2 Enviro Solutions |
|--------------------|---|
| Contact name: | -INV'S & STMNTS - Kannan Kaliappan |
| Project name: | ADDITIONAL - 515 CROOKWELL ROAD KINGSDALE |
| Project ID: | ADDITIONAL - ST-01-1492 |
| Turnaround time: | 5 Day |
| Date/Time received | Jul 18, 2022 11:12 AM |
| Eurofins reference | 907245 |

Sample Information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table. 1
- 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. J
- X Split sample sent to requested external lab.
- X 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:

Hannah Mawbey on phone : or by email: HannahMawbey@eurofins.com

Results will be delivered electronically via email to -INV'S & STMNTS - Kannan Kaliappan - admin@k2envirosolutions.com.au.

Global Leader - Results you can trust

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET102523 / 105703 / 1 - 6 Your ref : ST-01-1492 – 515 Crookwell Road Kingsdale NSW2580 NATA Accreditation No: 14484

30 June 2022

K2 Consulting Group Suite 1A Level 2 802 Pacific Highway Gordon NSW 2072

Attn: Mr Kannan Kaliappan



Accredited for compliance with ISO/IEC 17025 - Testing.

Dear Kannan

Asbestos Identification

This report presents the results of six samples, forwarded by K2 Enviro Solutions on 30 June 2022, for analysis for asbestos.

1.Introduction:Six samples forwarded were examined and analysed for the presence of asbestos.

- 2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (Australian Standard AS 4964 - 2004 and Safer Environment Method 1 as the supplementary work instruction) (Qualitative Analysis only).
- 3. Results : Sample No. 1. ASET102523 / 105703 / 1. ST-01-1492-BH01-ASB1 (0.2m). Approx dimensions 8.0 cm x 8.0 cm x 1.1 cm The sample consisted of a mixture of clayish sandy soil, stones, fragments of plastic and plant matter. No asbestos detected.

Sample No. 2. ASET102523 / 105703 / 2. ST-01-1492-BH03-ASB3 (0.2m). Approx dimensions 8.0 cm x 8.0 cm x 1.4 cm The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of paint flakes, animal and plant matter. No asbestos detected.

Sample No. 3. ASET102523 / 105703 / 3. ST-01-1492-BH07-ASB7 (0.2m). Approx dimensions 8.0 cm x 8.0 cm x 0.9 cm The sample consisted of a mixture of clayish sandy soil, organic fibres, stones, fragments of sandstone, wood chips and plant matter. No asbestos detected.

Sample No. 4. ASET102523 / 105703 / 4. ST-01-1492-BH08-ASB8 (0.2m). Approx dimensions 8.0 cm x 8.0 cm x 1.0 cm The sample consisted of a mixture of clayish sandy soil, stones, fragments of soft fibrous material containing organic fibres, wood chips and plant matter. No asbestos detected.

Sample No. 5. ASET102523 / 105703 / 5. ST-01-1492-ASB-BR1. Approx dimensions 8.0 cm x 8.0 cm x 1.1 cm The sample consisted of a mixture of sandy soil, stones, fragments of sandstone and plant matter. No asbestos detected.

SUITE 710 / 90 GEORGE STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY WESTFIELD NSW 1635 PHONE: (02) 99872183 FAX: (02)99872151 EMAIL: info@ausset.com.au WEBSITE: www.Ausset.com.au



Sample No. 6. ASET102523 / 105703 / 6. ST-01-1492-PL-ASB (Rubbish Pile). Approx dimensions 6.0 cm x 4.1 cm x 0.5 cm The sample consisted of a fragment of a fibro plaster cement material containing organic fibres. No asbestos detected.

Reported by,

Mahen De Silva. BSc, MSc, Grad Dip (Occ Hyg) Occupational Hygienist / Approved Identifier. Approved Signatory



Accredited for compliance with ISO/IEC 17025 - Testing.

The results contained in this report relate only to the sample/s submitted for testing. Australian Safer Environment & Technology accepts no responsibility for whether or not the submitted sample/s is/are representative. Results indicating "No asbestos detected" indicates a reporting limit specified in AS4964 -2004 which is 0.1g/ Kg (0.01%). Any amounts detected at assumed lower level than that would be reported, however those assumed lower levels may be treated as "No asbestos detected" as specified and recommended by A4964-2004. Trace / respirable level asbestos will be reported only when detected and trace analysis have been performed on each sample as required by AS4964-2004. When loose asbestos fibres/ fibre bundles are detected and reported that means they are larger handpicked fibres/ fibre bundles, and they do not represent respirable fibres. Dust/soil samples are always subjected to trace analysis except where the amounts involved are extremely minute and trace analysis is not possible to be carried out. When trace analysis is not performed on dust samples it will be indicated in the report that trace analysis has not been carried out due to the volume of the sample being extremely minute.

K2 K2 CONSULTING GROUP

| K2 K2 CONSULTING GR | OUP | CHAIN OF | CUSTO | DY | |
|--|---------------------------------|-------------------------------|-------------|------------------|---------------|
| LIENT: Alimaco Pty Ltd | URGENT | | 22 | | |
| FFICE: | | | | | |
| ROJECT NO: ST-01-1492 . | SAMPLED ON: | 27.06.2022 | | | 18CA |
| DDRESS, 515 Crookwell Road, Kingsdale NSW 2580 | | | | | CARA A |
| POLECT MANAGER: Kannan Kallappin CONTACT | PH 0449669559 | | | | |
| AMPLER Similar | | RELINQUISHED BY Sirish Baniya | RECEIVED BY | RELINQUISHED BY: | RECEIVED BY: |
| OC emailed to lab? YES THEY Yes EDD FORM | | | | Kn | |
| Riversar and the set of the set of the side of the sid | DATESTINE IN Go 2012 ATT 20 hrs | DATE TIME | DARDING | DATE/TIME: | |
| mail in vitte to that does no Pit a rundher and estate the Lated Rannan@k | 2consultinggroup.com.au | | 1 | | 20/6/22 10-45 |

ASETI02523/105703/1-6

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL

| | SAMPLE MATRIC SOLL VINYL/ DU | CONTAINER INFORMATION | | - | | Additional Information | | | | | | | |
|-----|----------------------------------|-----------------------|--------|-----------------------|---------------------|--|--|---|-------------------------------------|---|--|----------------------|---|
| Sno | SAMOLE ID | DATE / TIME | MATRIX | CONTAINER INFORMATION | TOTAL CONTA NERS | Asbestos in soll (presence/absence) | Asbestos Cement Si met (presence / absence) | Asbestos in Vinyl (presence/absence) | Asbestos Dust (presence/absence) | Asbestos in Bitumen (present / absent) | Asbestos in insulation (Present / absent) | Asbestos in Material | or samples requiring eccorfic enalys etc. |
| | ST-01-1492-8H01-ASB1 (0.2m) | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | |
| | ST-01-1492-BH01-ASB1' (1.0m) | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | х | | | | | | | HOLD |
| 10 | ST-01-1492-BH02-ASB2 (0.2m) | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | х | | | | | | | HOLD |
| 4 | ST-01-1492-BH02-ASB2' (0.4m) | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | х | | | | | | | HOLD |
| | ST-01-1492-BH03-ASB3 (0.2m) | 27.06.2022: 10:00 hrs | Soil | Zip Lock Bag | 1 | х | | | | | | | |
| | ST-01-1492-BH03-ASB3' (0.5m) | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | х | | | | | | | HOLD |
| | ST-01-1492-BH04-ASB4 (0.2m) | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | HOLD |
| 8 | ST-01-1492-8H04-ASB4' (0.4m) | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | X | | 5 |) E(| ជាន | NV | <u>)</u> 22 (U | HOLD |
| | ST-01-1492-BH07-ASB7 (0.2m) | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | X | | | 1 | 12 | | | |
| 10 | ST-01-1492-BH07-ASB7 (0.4m) | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | x | | | 3 | 0 10 | N 202 | 2 9 | HOLD |
|)1 | ST-01-1492-BH08-ASB8 (0.2m) | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | 1 | | |
| 12 | ST-01-1492-BH08-ASB8' (0.4m) | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | x | | | BY: | | * ····· | | HOLD |
| 13 | ST-01-1492-BH09-ASB9 (0.2m) | 27.06.2022; 10:00 hrs | Soli | Zip Lock Bag | 1 | X | | | | | | | HOLD |
| 14 | ST-01-1492-BH10-ASB10 (0.2m) | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | X | | | | | | | HOLD |
| 15 | ST-01-1492-BH11-ASB11 (0.2m) | 27.06.2022: 10:00 hrs | Soil | Zip Lock Bag | 1 | x | | | - | | | | HOLD |
|)16 | ST-01-1492-ASB-BR1 | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | |
| 17 | ST-01-1492-SS01-ASB | 27.06.2022; 10:00 hrs | Soil | Zip Lock Bag | 1 | x | | | | | | | HOLD |
| 18 | ST-01-1492-PL-ASB (Rubbish Pile) | 27.06.2022; 10:00 hrs | FCS | Zip Lock Beg | 1 | | х | | | | | | |

515 Crookwell Road, Kingsdale NSW 2580

Appendix VI

Pro-UCL study

| | A B C | D E | F | G H I J K | L | | | | | | | |
|----------|--|-----------------------------|--------------|--|-------|--|--|--|--|--|--|--|
| 1 | | UCL Statis | tics for Unc | ensored Full Data Sets | | | | | | | | |
| 2 | User Selected Options | | | | | | | | | | | |
| 3 | • | DrollCL 5 2 10/08/2022 / | -05-25 DM | | | | | | | | | |
| 4 | Date/Time of Computation ProUCL 5.2 10/08/2022 4:05:35 PM From File WorkSheet.xls | | | | | | | | | | | |
| 5 | Full Precision OFF | | | | | | | | | | | |
| 6 | Confidence Coefficient 95% | | | | | | | | | | | |
| 7 | Number of Bootstrap Operations 2000 | | | | | | | | | | | |
| 8 | | 2000 | | | | | | | | | | |
| 9 10 | | | | | | | | | | | | |
| - | Chromium (Total) UCL | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | General | Statistics | | | | | | | | |
| 14 | Total | Number of Observations | 20 | Number of Distinct Observations | 16 | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | Minimum | 24 | Mean | 115.2 | | | | | | | |
| 17 | | Maximum | 250 | Median | 120 | | | | | | | |
| 18 | | SD | 62.47 | Std. Error of Mean | 13.97 | | | | | | | |
| 19 | | Coefficient of Variation | 0.542 | Skewness | 0.228 | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | Normal (| GOF Test | | | | | | | | |
| 22 | | napiro Wilk Test Statistic | 0.959 | Shapiro Wilk GOF Test | | | | | | | | |
| 23 | 1% Sh | apiro Wilk Critical Value | 0.868 | Data appear Normal at 1% Significance Level | | | | | | | | |
| 24 | | Lilliefors Test Statistic | 0.108 | Lilliefors GOF Test | | | | | | | | |
| 25 | 19 | % Lilliefors Critical Value | 0.223 | Data appear Normal at 1% Significance Level | | | | | | | | |
| 26 | | Data appea | ar Normal at | 1% Significance Level | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | suming Norr | nal Distribution | | | | | | | | |
| 29 | 95% Noi | rmal UCL | | 95% UCLs (Adjusted for Skewness) | | | | | | | | |
| 30 | | 95% Student's-t UCL | 139.3 | 95% Adjusted-CLT UCL (Chen-1995) | 138.9 | | | | | | | |
| 31 | | | | 95% Modified-t UCL (Johnson-1978) | 139.4 | | | | | | | |
| 32 | | | Commo | GOF Test | | | | | | | | |
| 33 | | A-D Test Statistic | 0.497 | | | | | | | | | |
| 34 | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | |
| 37 38 | Detected date on page Distributed at 5% Disrificance Level | | | | | | | | | | | |
| 30 39 | | | | | | | | | | | | |
| 40 | | | Gamma | Statistics | | | | | | | | |
| 40 | | k hat (MLE) | 2.856 | k star (bias corrected MLE) | 2.461 | | | | | | | |
| 41 | | Theta hat (MLE) | 40.32 | Theta star (bias corrected MLE) | | | | | | | | |
| 43 | | nu hat (MLE) | 114.2 | nu star (bias corrected) | 98.43 | | | | | | | |
| 44 | ML | E Mean (bias corrected) | 115.2 | MLE Sd (bias corrected) | 73.41 | | | | | | | |
| 45 | | | | Approximate Chi Square Value (0.05) | 76.54 | | | | | | | |
| 46 | Adjust | ted Level of Significance | 0.038 | Adjusted Chi Square Value | 75.02 | | | | | | | |
| 47 | | I | | · I | | | | | | | | |
| 48 | | Ass | uming Gam | ma Distribution | | | | | | | | |
| 49 | 95% Ap | oproximate Gamma UCL | 148.1 | 95% Adjusted Gamma UCL | 151.1 | | | | | | | |
| 50 | | | | | | | | | | | | |
| 51 | | | | GOF Test | | | | | | | | |
| 52 | | napiro Wilk Test Statistic | 0.914 | Shapiro Wilk Lognormal GOF Test | | | | | | | | |
| 53 | 10% Sh | apiro Wilk Critical Value | 0.92 | Data Not Lognormal at 10% Significance Level | | | | | | | | |
| 54 | | Lilliefors Test Statistic | 0.181 | Lilliefors Lognormal GOF Test | | | | | | | | |
| 55 | 109 | 6 Lilliefors Critical Value | 0.176 | Data Not Lognormal at 10% Significance Level | | | | | | | | |
| 56 | | Data Not Lo | gnormal at | 10% Significance Level | | | | | | | | |

| | А | В | С | D | E | F | G | Н | I | J | K | L | | |
|----|---|--|----------------|----------------|---------------|---------------|-----------------|----------------|-------------|---------------|------------------|-------|--|--|
| 57 | | | | | | | | | | | | | | |
| 58 | Lognormal Statistics Minimum of Logged Data 3.178 Mean of logged Data 4.561 | | | | | | | | | | | | | |
| 59 | | Minimum of Logged Data 3.178 Mean of logged Data | | | | | | | | | | | | |
| 60 | | Maximum of Logged Data 5.521 SD of logged Data | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | | | |
| 62 | | | | | | | rmal Distrib | ution | | | | | | |
| 63 | | 95% H-UCL 170.8 90% Chebyshev (MVUE) UCL | | | | | | | | | 177.1 | | | |
| 64 | | 95% Chebyshev (MVUE) UCL 203.3 97.5% Chebyshev (MVUE) UCL | | | | | | | | | 239.8 | | | |
| 65 | | 99% Chebyshev (MVUE) UCL 311.4 | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | | | |
| 67 | | Nonparametric Distribution Free UCL Statistics | | | | | | | | | | | | |
| 68 | | Data appear to follow a Discernible Distribution | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | | | |
| 70 | | | | | | | tribution Fre | e UCLs | | | | | | |
| 71 | | 95% CLT UCL 138.1 95% BCA Bootstrap UCL | | | | | | | | 138 | | | | |
| 72 | | 95% Standard Bootstrap UCL 137.4 95% Bootstrap-t UCL | | | | | | | | 140.2 | | | | |
| 73 | | | | 5% Hall's Bo | • | 139.6 | | 137.8 | | | | | | |
| 74 | | | | ebyshev(Me | , | 157.1 | | 176 | | | | | | |
| 75 | | | 97.5% Ch | ebyshev(Me | an, Sd) UCL | 202.4 | | | 99% Cł | nebyshev(Mea | an, Sd) UCL | 254.1 | | |
| 76 | | | | | | | | | | | | | | |
| 77 | | | | | | Suggested | UCL to Use | | | | | | | |
| 78 | | | | 95% Stu | dent's-t UCL | 139.3 | | | | | | | | |
| 79 | | | | | | | | | | | | | | |
| 80 | Ν | Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | | | | | | | | | | |
| 81 | | Recommendations are based upon data size, data distribution, and skewness using results from simulation studies. | | | | | | | | | | | | |
| 82 | Hov | wever, simu | lations result | s will not cov | er all Real W | /orld data se | ts; for additio | nal insight th | ie user may | want to consu | ult a statistici | an. | | |
| 83 | | | | | | | | | | | | | | |