K2 CONSULTING GROUP

Detailed Site Investigation

515 Crookwell Road, Kingsdale NSW 2580

Prepared for:

Alimaco Pty Ltd

ST-01-1533 / DSI V2 Final
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List of Abbreviations

ACM	Asbestos Containing Material
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
ESL	Environmental Screening Levels
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
OCP	Organochloride Pesticides
OPP	Organophosphate Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PID	Photo-ionisation detector
PPM	Parts per million
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

This report, prepared by K2 Consulting Group (K2) presents the results of a Detailed Site Investigation (DSI) commissioned by Alimaco Pty Ltd and conducted for the property located at 515 Crookwell Road, Kingsdale (hereinafter referred to as 'the site'). The site is identified as Lot 3 of DP 107433 and Lot 104 of DP 1007433 located within the Goulburn-Mulwaree Council Local Government Area (LGA) – Local Government Area. The location and boundary of the site are presented in Figure 2 in Appendix I.

The proposed development at the site includes twenty-three (23) low-density rural residential subdivisions/allotments including internal access roads as part of the proposed development use of the residential estate. At this stage details of the proposed development plan and associated with earthworks were not provided to K2 Consulting.

K2 Consulting Group was advised that the existing structures at the site such as the residential buildings, sheds, and other infrastructure will be demolished and disposed of off-site to assist in the proposed development.

CivPlan Consulting Pty Ltd (CivPlan) completed a Preliminary Site Investigation (PSI) on the site and identified Areas of Environmental Concern (AEC 1 to 4) targeting potential contamination sources indicated in Appendix I, Figure 2 and a subsequent Stage 2 – Environmental Site Investigation (ESI) was undertaken by K2 Consulting Group. This report should be read in conjunction with these previous reports.

K2 Consulting reviewed the following reports as part of the project:

- CivPlan (2021), Preliminary Site Investigation (PSI), Report number 20027CC-001; and
- K2 Consulting Group (2022), Environmental Site Investigation (ESI), Report no ST-01-1492-ESI V1 final.

2 Objectives

The objectives of the DSI for contamination include the following:

- Assess the status and extent of contamination of soils, groundwater, and surface water that can pose a human health and environmental risk to the current and future occupiers of the land;
- Identify any potential contamination that may impact the proposed development of the site into a large rural subdivision; and
- Preparation of a DSI report providing the results of the site investigation and informing the client of any remediation or site management requirements in response to the findings of the site investigation.

3 Scope of Works

The scope of work conducted to prepare the (DSI) report included the following:

- Preparation of a Safe Work Method Statement (SWMS);
- Preparation of a refined conceptual site model (CSM);

3.1 Soil Investigation

- Undertake an intrusive soil investigation to establish ground conditions and facilitate the collection of representative soil samples within the AECs (AEC 1, to AEC 5) presented in **Appendix I** (**Figure 2**); and
- Laboratory analysis of selected soil samples for Contaminants of Potential Concerns (CoPC), Chromium VI speciation; and Analysis of selected soil samples for leaching potential using Australian Standard Leaching Potential (ASLP).

3.2 Groundwater and Surface Water Investigation

- Installation of two (2) groundwater monitoring wells within AEC5 (east of AEC2) and collection of representative groundwater samples;
- Collection of surface water samples from two (2) surface water dams; and
- Laboratory analysis of selected soil samples for Contaminants of Potential Concerns (CoPC), and Chromium VI speciation.

Preparation of this DSI report comprising, interpretation of results, conclusions, and recommendations.

The DSI was undertaken in general accordance with guidelines and acts referenced in Section 21 of this report.

4 SITE DESCRIPTION

The site is located at 515 Crookwell Road, Kingsdale NSW 2580 (Lot 103 on DP 1007433 and Lot 104 on DP 1007433) and is currently zoned RU6 C3-Environmental management under the Goulburn-Mulwaree Local Environmental Plan (LEP) 2009. Refer to **Table 1** below for the site summary. The site location and boundaries are presented in **Appendix I**. Copies of the Certificate of Titles are presented in Appendix X of this report.

The site is located within RU4- Rural residential zoning and is proposed to be developed into a large rural residential site. The site is currently used for grazing and sheep-rearing activities with residential property and associated infrastructure including access roads and a workshop.

Table 1. Site Identification

Item	Description
Client	Alimaco Pty Ltd
Site Address	515 Crookwell Road, Kingsdale, NSW 2580
Current Zoning	C3: Environmental Management (as per NSW spatial viewer)
Legal Description	Lot 103 and Lot 104 on DP 1007433
Lot Area (ha)	55 (Approx.)
Local Government Authority	Goulburn-Mulwaree Council
Elevation (m AHD)	Between 670 along the south to 682 along the north
Geographical Location	34° 42’58” S 149° 42’13” E

4.1 Surrounding Land Use

A summary of the 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 are 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 has 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 is located approximately 1.8 km to the south of the site.

5 Site Walkover Inspection

The following site features were observed during the site walkover inspections conducted by K2 Environmental Scientist on 7th November 2022. Site inspection observations 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 the 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;
- Two (2) surface water dams constructed from soil embankments were observed on-site. The water in the dam located in 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;
- IBC containers of unknown liquids were observed within 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 sub-surface irrigation area were noted to the east of the house at AEC 2; a GPR survey was undertaken to identify any underground utilities in the proposed borehole locations;
- Electric power lines were noted to traverse through the site in a north-south direction; and
- Groundwater extraction 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 **Appendix I - Figure 3** of this report.

6 PREVIOUS INVESTIGATIONS

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

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 and will require further investigation both pre-and post-demolition of the existing structures. The remainder of the site is of a MODERATE likelihood for any contamination due to agricultural land use activities and will also require additional investigation.*"

The recommendations in the report 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 2022
  - National Environmental Protection (Assessment of site contamination) Measure NEPM 2013."

Environmental Site Investigation, Report No: ST-01-1492/ESI, dated 27th August 2022 (K2 ESI, August 2022)

K2 was engaged to undertake a limited soil investigation in the AECs previously identified. 10 sampling points were advanced in various areas of the site within AECs 1 to 4 (refer to Figure 5). This is a preliminary soil investigation and was undertaken to assess the potential for contamination in AECs 1 to 4.

- "*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 LOR;*

- *K2 recommended further sampling according to the recommended sampling density for site characterisation as per NSW EPA (2022) prior to moving soil on-site and/or transporting it off-site. Based on the site history review and site walkover, it was considered that there is a moderate to high potential for site contamination from one or more of the identified potential contamination sources and it is concluded that the environmental and human health risk is high. "*

Based on the above conclusions the following recommendations were proposed;

- Additional investigation of the remainder of the site was recommended for any contamination due to agricultural land use activities and the presence of fill materials.
- Both hexavalent and trivalent chromium has the 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 also 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 recommended testing for the existing bores and further investigation of groundwater contamination using additional monitoring bores installed at strategic locations and monitoring for a period of time;
- A surface water dam dewatering and a decommissioning plan are recommended to be prepared and implemented before the commencement of earthworks;
- Investigate areas around the sewage effluent irrigation area for microbial and other potential contaminants; and
- Undertake a detailed desktop study including but not limited to the activities on-site and neighbouring sites, the search for chemical storage register, and groundwater extraction wells.

7 Area of Environmental Investigation

Civplan (2021) identified four (4) AECs and further investigations were conducted by K2 during stage 2 - Environmental Site Investigation (K2 ESI, August 2022). K2 (2022) identified elevated levels of total chromium concentrations in soils collected from AEC 1, AEC 2, and AEC3. The remaining areas outside these AECs were not investigated during this limited investigation. Hence a DSI was recommended to investigate chromium across the site i.e., AECs 1 to AEC 5. Refer to **Table 3** below and **Appendix I** for details on the boundaries of AECs.

Table 3. Areas of Environmental Concern

AEC	Areas	Source	Contaminants
AEC 1	North-eastern section of the site near the shed and silo	Storage of chemical containers and IBCs of unidentified liquids on site	TRH, BTEXN, PAH, Heavy Metals, OCP/OPP, PCB, and Asbestos
AEC 2	North-eastern section of the site, south of AEC1 near the residential dwelling and shed	Imported fill material underneath concrete hardstand areas under the sheds and from compacted driveways within the site	TRH, BTEXN, PAH, Heavy Metals, OCP/OPP, PCB, and Asbestos
AEC 3	North-eastern section of the site, west of AEC 2, near the shed, silo	Fuel and oil spillage from maintenance, parking, and refuelling of motor vehicles on site	TRH, BTEXN, PAH, Heavy Metals, OCP/OPP, PCB, and Asbestos

AEC	Areas	Source	Contaminants
AEC 4	North-western section of the site	Corrugated tin shed	TRH, BTEXN, PAH, Heavy Metals, OCP/OPP, PCB, and Asbestos
AEC 5 (Areas not included in AEC1, AEC2, AEC3 and AEC 4)	North-western, Southwestern, and south-eastern sections of the site	No known contamination sources at this stage of the investigation	TRH, BTEXN, PAH, Heavy Metals, OCP/OPP, PCB, and Asbestos

8 SITE SETTINGS

8.1 Hydrology and Site Topography

The site is elevated along the north-western section and slopes towards the southwest. The residential dwelling and silo are located on the upstream side and any surface water runoff from the site is expected to flow from the residential dwelling to the paddock in a south-westerly direction.

8.2 Geology and Hydrogeology

The site area is underlain by hard compacted layers of mudstone and siltstone. The general soil type of the investigated area is dominantly clay. From the overall soil sampling program carried out across the area, and from the samples that were collected between a depth of 0.0-1.5m BGL, it is inferred that the general soil lithology presents a natural profile that varies from Silty clay to clayey silt with occurrences of fill material below the topsoil in certain sections of the site.

A search for the registered groundwater bore was undertaken at the online database of the WaterNSW Real-time (https://realtimedata.waternsw.com.au) as part of Stage 2 – Environmental Site Investigation. One (1) registered groundwater bore was identified within the site and two (2) registered groundwater bores were identified within 500 m radius of the site boundary. Refer to **Figure 1** for the groundwater bore locations. **Table 4** below summarised detail information regarding the registered groundwater bores identified (Database accessed 21.04.2023). The construction details of the bore identified onsite (GW050231) is provided in **Appendix XI,** however, K2 was not able to locate the GW05023 during the site investigation.

Table 4. Groundwater bores within 500 m radius of the site

Groundwater Bore ID	Date commissioned	SWL (m)	Depth of the bore (m BGL)	Authorised purpose	Intended purpose	Direction	Approx. distance from the site (m)
GW050231	01/02/1980	9.10	38.10	NA	Stock	Onsite	On-site
GW043667	01/08/1972	26.20	42.3	Stock, Domestic	Stock, Domestic	East of the site	260
GW049127	01/09/1978	8.20	45.70	NA	Stock	Northeast of the site	420

NA – Not Available

There is no sufficient information to conclude the localised groundwater flow direction, however, the groundwater flow is assumed to take the general topography at the site.

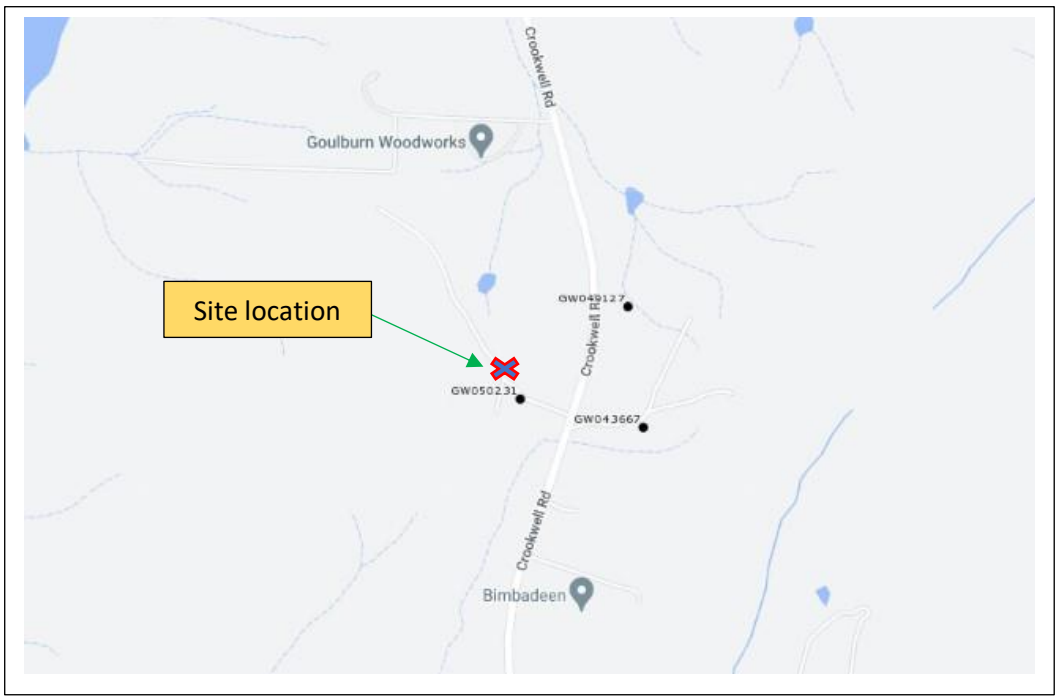

Figure 1. A search for registered groundwater monitoring wells.

9 SITE HISTORY REVIEW

9.1 Council Record Search

A council record search was undertaken by K2 for any relevant information pertaining to the site. The Goulburn-Mulwaree council website was accessed on 6th December 2022 and no information was obtained during the search.

9.2 Aerial images

A review of the historical photographs of the site was undertaken by CivPlan (2021) and a selection of the most pertinent historical aerial photographs of the site and surrounding area are presented. The site has remained fairly unchanged since 1975 till date except for the addition of two sheds to the north and west of the residential dwelling in 1987, and a small shed to the southwest of the residential dwelling in 1991. Refer to Section 2.9 of the CivPlan (2021) report for the historical information pertaining to the site.

9.3 Title Search

A historical title search of the site was undertaken by K2. A summary of the historical land titles provided by Land Insight is presented in **Table 5** below. The activities undertaken during the lease were not identified. Refer to **Appendix X** – Historical Title search.

Table 5. Historical title summary

Date of Acquisition	Type	Registered Proprietor(s) & occupations where available	Deal No.	Folio reference
2002	Transfer	Alimaco Pty Ltd	9096411	103/1007433
1978	Transfer	Onslow Pastoral Pty Ltd	NA	NA
1959	Transfer	William Thomas Phillips, Grazier Gladys Phillips, Grazier	NA	NA
1931	Transfer	James Carr, Grazier	NA	NA
1912	Transfer	James Carr, Grazier	NA	NA

From the information provided by Land Insight, it is inferred that the subject area had been a portion of a larger property (4149 acres) and historically it had been subdivided into smaller lots. Additionally, the site was subjected to lease to multiple occupants by the title holders.

Based on the title records review, it is inferred that, historically, the larger land (including the site) was predominantly used for grazing purposes except for the period between 1914 to 1957 when the larger land was leased to Kingsdale Lime Kilns Ltd.

10 CONCEPTUAL SITE MODEL

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

The linkage between SPR in the CSM examines whether a complete, potential, or incomplete exposure pathway exists. The status of the exposure pathway determines the presence of risk to the environment and/or human health. SPR linkage categories are summarised as follows:

- Complete: All elements are present. Potential risk exists;
- Potentially complete: one or more of the elements may not be present, and /or information is insufficient to eliminate or exclude the element. The potential for risk exists; and
- Incomplete: one or more of the elements are absent. The risk to the receptor does not exist.

In accordance with ASC NEPM (2013) Schedule B2 – Guideline on Site Characterisation and to aid in the assessment of data collection for the site, K2 developed a conceptual site model (CSM), to evaluate potential risk from SPR. The CSM provides a framework for the review of the reliability and useability of the data collected and to identify data gaps in the existing site characterisation.

A CSM has been completed using desktop-based information and the previous investigations and summarised in **Table 6.**

10.1 Potential Sources and Associated Contaminants of Concern

The following contamination sources are likely to be present, primarily within the area defined as AECs in **Appendix I-Figure 2**.

On-site Sources identified

- AEC 1: Storage of chemical containers and IBCs of unidentified liquids onsite.
- AEC: 3- fuel and oil spillage from maintenance, parking, and refuelling of motor vehicles on site in AEC3;
- Imported fill material in AEC 2;
- Historical usage of pesticides onsite and adjacent properties and runoff from the septic effluent irrigation system in AEC4.

Offsite Sources identified

- No known contaminating activities are observed on adjacent sites and no known offsite sources were identified at this stage.

10.2 Pathways

The potential contamination pathways are considered to be as follows:

- Direct contact of the soil by current users, construction workers and future site users;
- Inhalation of asbestos or volatiles by current users, construction workers and future site users;
- Stormwater runoff;

- Infiltration of Volatile Organic Compounds (VOCs) through the building foundation;
- Infiltration through water pipes located on-site; and
- Leaching of contaminants through the soil profile;

Further leaching of contaminants to groundwater;

- Formation of contaminant plume in aquifer/s;
- Contaminants travelling off-site via groundwater plume;
- Residents (both on-site and neighbouring) accessing groundwater and suffering negative health impacts;
- Plumes impacting down-gradient flora and fauna, and
- Plumes impact down-gradient surface water bodies and cause negative environmental health impacts.

10.3 Receptors

Relevant potential receptors are considered to include:

- Onsite construction and maintenance workers
- Future site users
- Neighbouring residents - Aquifer
- Local wetlands
- Flora and Fauna.

The potential contamination sources, exposure pathways, and human and environmental receptors that were considered relevant for this assessment are summarized along with a qualitative assessment of the potential risks posed when the exposure pathways are complete as presented in **Table 6** below.

10.4 Limitations

The investigation did not include any emerging contaminants of concern including Per and poly-fluoroalkyl substances (PFAS) which are known to be persistent and widely prevalent in Australian environmental media such as soils and water. No activities relevant to the storage of firefighting foams and /or firefighting activities were noted onsite and hence it was considered suitable to exclude PFAS from the investigations. In NSW, biosolids were historically applied on land for agricultural purposes as a nutrient-rich alternative for grazing land. Due to the widespread application of biosolids in NSW, there is a potential for contamination, however, it is not included as a source of contamination in this investigation due to lack of evidence and is considered as a limitation to the report.

Table 6. Revised Conceptual Site Model

Areas of concern	Key Affected Areas	Source	Contaminants of Potential Concern (COPC)	Primary Release Mechanism	Secondary Release Mechanism	Potential Impacted Media	Exposure Pathways	Key Potential Receptors	The Potential Risk of Complete Exposure Pathway
AEC 1	North-eastern section of the site near the shed and silo	Storage of chemical containers and IBCs of unidentified liquids on site	TRH, BTEX, PAH, Heavy metals, OCP, OPP, Asbestos	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 run-off	Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration.	Current residents, future residents, and construction personnel involved in the development of the site	Yes
								Users of groundwater	Yes
AEC 2	North-eastern section of the site, south of AEC1 near the residential dwelling and shed	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	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, and construction personnel involved in the development of the site	No
								Users of groundwater	Yes
AEC 3	North-eastern section of the site, west of AEC2, near the shed, silo	Fuel and oil spillage from maintenance, parking and refuelling of motor vehicles on site	TRH, BTEXN, PAH, Heavy metals	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 run-off	Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration.	Current residents, future residents, and construction personnel involved in the development of the site	Yes
								Users of groundwater	Yes
AEC 4	South-western section of the site	Historical usage of pesticides onsite and	OCP, OPP and Heavy metals	Use of pesticides for any 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 run-off	Dermal contact, inhalation of dust/vapour, ingestion, surface water, and groundwater migration.	Current residents, future residents, and construction personnel involved in the development of the site	Yes
								Users of groundwater	Yes
AEC5 (All other areas not included in AEC1, AEC2, AEC3, AEC4)	North-western, Southwestern, and south-eastern sections of the site	Historical usage of pesticides onsite and adjacent properties, Runoff from the septic effluent irrigation system	TRH, BTEXN, PAH, Heavy metals, Microbial contamination	No known sources of contamination at this stage of investigation.	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, and construction personnel involved in the development of the site	Yes
								Users of groundwater	

11 Field Investigation Methodology

11.1 Soil Investigation methodology

Drilling was undertaken at eighty-three (83) boreholes using a direct push tube (DPT) drill rig while five (5) boreholes were drilled using a hand auger. The boreholes were generally drilled to the depth of 1.5 m BGL which is the length of each push tube. However, in some instances, the bore holes were terminated at shallower depths due to rock refusal. Three (3) soil samples were collected at various depths in each borehole, generally from the topsoil layer (0.0-0.2 m BGL), topsoil/natural transition layer (around 0.5m BGL), and natural residual clay approximately around 0.8 m to 1.0 m BGL.

Two hundred and twelve (212) primary samples were collected from the soil sampling program. Of these a selected eighty-eight (88) primary soils samples at various depths were selected for laboratory analysis. As part of the data quality additional four (4) intra lab, and four (4) inter-laboratory samples were analysed for CoPCs identified in **Section 10.1**.

The borehole logs were prepared in accordance with the Unified Soil Classification System. The logs were prepared for environmental purposes and not geotechnical purposes. Field observations including soil indicators of contamination such as staining, odour, and discolouration, were considered during the collection of samples. Please refer to **Appendix III – Bore logs** for details of soil lithology and depth of samples.

11.2 Sampling locations and sampling density

A stratified sampling pattern was followed based on-site geometry, size and review of previous site investigations. The sampling locations within AECs 1, 2, 3 and 4 were undertaken in a stratified pattern (combination of both judgemental and systematic patterns), while sampling in other areas (AEC 5) was undertaken on a judgemental sampling pattern. Please refer to **Appendix I** for the sampling locations.

Due to the larger area of the subject site, an incremental sampling approach was considered appropriate for this site. The approach involved the investigation of the site in stages and if any contamination in soils or contamination sources is identified during the investigation by K2, further testing would be required.

Due to the stratified sampling pattern, the sampling density in the AECs did not meet the minimum sampling density requirements as mentioned in Sample Design Guidelines (Part 1) NSW EPA 2022. However, based on the adopted investigation approach (stratified), field observations during site works, laboratory reports from soil samples and other desktop-based information, the sampling density is considered suitable to meet the objectives of this investigation.

<u>AEC 1, 2 and 3</u>

AEC1, 2, and 3 are located in the immediate vicinity of the constructed areas onsite including residential buildings, silos, and a mustering station. A higher sampling density was undertaken as part of the current site investigation to delineate the boundary of elevated total chromium soil concentrations reported in K2 (2022). Sampling locations were selected using a systematic sampling pattern with an offset form previously identified exceedances of total chromium concentrations. The total area of each AECs and sampling density is provided in **Table 7**.

AEC 4 and 5

AEC 4 is located to the west of the site and includes a small shed made of fibrous cement sheets. The shed was not used for any storage purposes.

AEC 5 involved areas outside the AEC 1,2 and 3 and included undeveloped pastoral land with undulating ground features and two (2) agricultural surface water dams. Due to the larger area of AEC 5 and based on the site features, a judgemental sampling pattern was adopted. A minimum of three (3) sampling locations were placed on each of the proposed subdivision lots (1.5 Ha each lot) in a targeted pattern.

Table 7. Summary of sampling density in the AEC

AEC	Sampling pattern	Area (ha)	Number of sampling locations undertaken previously (K2 ESI 2022)	Number of sampling locations undertaken during the current investigation (K2 DSI 2023)
AEC 1	Stratified	1.5	3	10
AEC 2	Stratified	1.65	5	12
AEC 3	Stratified	0.9	2	8
AEC 4	Judgemental	0.5	Nil	3
AEC 5	Judgemental	50	Nil	55

11.3 Soil Sampling Procedures

Soil samples were collected by split-core sampler Direct Push Tube (DPT) drilling and the soils were brought to the surface in plastic sleeves. The sleeves were then slit open to enable soil logging and collection of soil samples. The soil samples were collected by 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 which were filled to the top to minimise any headspace.

New plastic push tubes were used for each sample location thus negating the need for decontamination.

All field observations were noted in the field sheet including, unique sample identification, sample description, sampling coordinates, soil profiles, and borehole numbers. Excess soils collected during the investigation were placed within the borehole and reinstated. No soils from the drilling program were taken offsite for disposal.

11.4 Sample Transportation

Sampling jars were placed in a precooled esky with ice for sample preservation and transportation. The field chain of custody (COC) forms was completed, and the samples were then transferred to the primary laboratory SGS (SGS Australia Pty Ltd at U16, 33 Maddox St, Alexandria, NSW) and the secondary laboratory (Eurofins/MGT). Both the laboratories were NATA accredited.

Selected samples were submitted for laboratory analysis while the remaining samples were placed on hold for future assessment. All samples will be stored in the laboratory for a specified period following the receipt of samples.

11.5 Laboratory analysis of soils

Soils were also analysed for general contaminants including Heavy metals/metalloids, TRH, BTEX, PAH, OC/OP, PCBs and asbestos in soils (selected samples)

Elevated total chromium was observed in some of the soil samples. In order to assess the leaching potential of the soils for chromium, ten (10) soils were analysed using the Australian Standard Leaching Procedure (ASLP) for speciation of Chromium III (Cr-III) and Chromium VI (Cr-VI). Selected soil samples (49 soil samples) were analysed for speciation of Chromium to further analyse the presence of Cr-VI in soils.

A selected forty-four (44) soil samples were analysed for asbestos in soils (presence or absence) to assess the presence of asbestos contamination on the property.

11.6 Collection of quality control samples

A representative soil media was collected and well mixed and split into three portions and placed in three (3) jars prepared by the laboratory. One jar was labelled with the primary sample ID and the other jars were labelled with the intra and inter-lab duplicate sample IDs respectively. The primary and intra-lab duplicate samples were sent to the primary laboratory (SGS Australia Pty Ltd) and the inter-lab duplicate sample was sent to the secondary laboratory (Eurofins|MGT).

11.7 Decontamination Procedures

Sampling was undertaken using Direct Push Tubes using disposable plastic sleeves, which were changed between each borehole. Samples were collected directly from the sleeves using disposable nitrile gloves once they were cut open. The gloves were changed between each sample hence the need to decontaminate the tools was eliminated. Hence no decontamination was undertaken during this sampling regimen.

11.8 Groundwater Investigation

The objectives of the groundwater sampling program were to assess the prevalence and composition of any potential groundwater contamination and to determine both groundwater levels and baseline water quality onsite.

11.8.1 Groundwater monitoring wells Construction

Groundwater bores were installed in accordance with National Uniform Drillers Licensing Committee 2020, guidance on 'Minimum Construction Requirements for Water Bores in Australia'.

Two (2) groundwater monitoring wells GW4 and GW5 were installed on the eastern section of the site on 10th Nov 2022 refer to **Figure 6** in **Appendix I** for the location of groundwater monitoring wells. Two (2) soil bores were drilled using a solid flight auger and the groundwater table was encountered at 4.0 m BGL and 6.0 m BGL for GW4 and GW5, respectively. The monitoring wells were constructed using a 50 mm diameter uPVC casing (both solid and slotted screen), a 0.5 m thick gravel pack surrounding the screen, and a bentonite seal placed to the ground level.

The installation of groundwater monitoring wells on the north-western section of the property (AEC3) was abandoned due to rock refusal encountered at approximately 1.5 – 2.0 m BGL.

Please refer to the groundwater well bore log details and construction detail from **Appendix III.**

A borehole was drilled for installing GW4 and the groundwater table was encountered at 4 m BGL and drilling was terminated at 6 m BGL. A 50 mm diameter class -10 uPVC was used with a length of 1.5 m solid casing - and a length of screen of 4.5 m. The well was developed until dry using a bailer with a total volume of 24 litres was purged and left to recharge for future sampling events.

A second borehole was drilled for installing GW5 and the groundwater table was encountered at 4 m BGL, and the borehole was terminated at 6.7 m BGL. The groundwater well was installed using a 50 mm diameter class -10 uPVC (with the length of solid casing -1.2 m BGL and length of the screen - 5.5 m BGL). The well was developed until dry using a low-flow peristaltic pump with a total volume of 6.8 litres and was purged and left to recharge for future sampling events.

For both wells, areas surrounding the bores were flushed with ground level and solid casings for both groundwater wells extended 0.5 m above the ground. The groundwater well pipes were sealed using a screw-on plug. The groundwater boreholes were not surveyed for elevation by a licensed surveyor.

11.8.2 Groundwater Sampling

After the installation of the monitoring wells on 10th Nov 2022, three (3) monitoring events were undertaken on 18th Nov 2022, 25th Nov 2022, and 10th January 2023. During these monitoring events, the wells were purged and sampled.:

The groundwater wells were sampled using the following method:

- Prior to purging, the standing water level (SWL) in each monitoring well was measured using a water dip meter (Solinst meter). All measurements were undertaken from the top of the casing (TOC);
- Groundwater was purged and sampled at less than 1 litre per minute using a low-flow pump. Groundwater was sampled using a low-flow peristaltic sampling pump (Geotech Geopump) with a new section of dedicated silicon tubing which was connected to a flow cell and a water quality meter (YSI Pro Plus) attached to the flow cell;
- YSI multiparameter meter was used to measure field parameters (pH, Electrical Conductivity (EC), Dissolved Oxygen (DO), and temperature) and recorded during purging to ensure that extracted groundwater was representative of the surrounding groundwater conditions. When field parameters reached equilibrium, i.e., consecutive measurements are within 10% of each other for EC and pH, groundwater was deemed to be representative and groundwater samples were collected;
- The total volume of extracted water was recorded in field sheets and the data has been presented in **Appendix IX** – Groundwater field parameters.

Sample containers were filled directly from the pump tubing with a minimal amount of air contact and vials for volatile organic analysis were filled to minimise headspace. The sample containers were placed in a precooled esky with ice for sample preservation and transportation. The field forms were completed, and the samples were submitted to SGS Australia Pty Ltd under the Chain of Custody (COC) form for analysis. SGS is NATA accredited laboratory.

The equipment used for groundwater monitoring was hired from Active Environmental Solutions and the calibration certificates are provided in Appendix VIII – Calibration Certificates.

11.8.3 Laboratory analysis of groundwater samples

The groundwater samples were analysed for CoPC including Heavy metals/metalloids, TRH, BTEX, PAH, OC/OP, PCBs during the first and second monitoring events.

During the third monitoring event, all the above-mentioned CoPC was analysed in addition to Chromium VI (if any) leached from the soils.

11.8.4 Surface water samples

Surface water samples were collected from the two (2) farm dams located onsite; namely WD1 and WD2. Please refer to **Figure 2** in Appendix I for the location of site features. The samples were collected on two (2) monitoring events, 10th Nov 2022 and 10th Jan 2023.

Surface water samples for chemical analysis were carefully collected in sample containers supplied by the laboratory. The surface water samples from the dams were collected using an extension pole attached directly to the sampling containers. No decontamination procedures were required as no sampling tools were used that might cause cross-contamination.

Sampling containers were placed in a precooled esky with ice for sample preservation and transportation. The field forms were completed, and the samples were then transferred to SGS Australia Pty Ltd under the Chain of Custody (COC) form. SGS is NATA accredited laboratory.

11.8.5 Laboratory analysis of surface water samples

The surface water samples were analysed for CoPCs including Heavy metals, TRH, BTEX, PAH, OC/OP, PCBs during the first and second monitoring event. In addition, the surface water samples from both dams were analysed for Chromium VI during the second monitoring event on 10th January 2023. The summary of the surface water samples analysed in presented in **Table 8**.

11.9 Soil samples from the bottom of water dams

Soil samples were collected from the bottom of the two (2) farm dams located onsite; namely WD1 and WD2. Please refer to **Figure 2** in **Appendix I** for the location of the water dams and other site features. The samples were collected on two (2) monitoring events, 10th Nov 2022 and 10th Jan 2023.

The soil samples from the water dams were collected from the bottom surface of the dams using disposable nitrile gloves. No tools were used for the collection of soil samples from the water dams and hence no decontamination processes were required. The samples were believed to be representative of the soil accumulated on the bottom surface of the dam and the need for a vessel to collect the sample from the middle of the dam was not required.

Soil samples from the bottom of the dam for chemical analysis were carefully collected in glass jars supplied by the laboratory. Sampling containers were placed in a precooled esky with ice for sample preservation and transportation. The field forms were completed, and the samples were then transferred to SGS Australia Pty Ltd under the Chain of Custody (COC) form. SGS is NATA accredited laboratory.

It must be noted that the analysis of the soil samples from the water dams was undertaken to assess any potential chemical contamination from the soils onsite and does not warrant the absence of any hidden materials including but not limited to wastes, asbestos, and other hazardous materials hidden

inside the dams. K2 does not take any ownership if any such items are discovered in the dams during dewatering and unexpected finds procedures in **Section 19** must be followed during such incidents.

11.9.1 Laboratory analysis of soil samples from the water dams

The soil samples from the water dams were analysed for CoPCs including Heavy metals, TRH, BTEX, PAH, OC/OP, PCBs on 10th Nov 2022 and 10th Jan 2023.

One sample collected from WD1 on 10th Jan 2023 was analysed for Cr-VI, as elevated concentrations of total chromium above LOR were observed in WD1 during the previous sampling events.

Table 8. Summary of analysis – Surface water monitoring event

Sampled Date	Surface dam	Sample ID	Analysis
10.11.2022	WD1	ST-01-1533-WD1	Heavy metals (As, Cd, Cr, Cu, Pb, Ni, Hg, and Zn), TRH, PAH, BTEX, PCB, OCP/OPP
	WD2	ST-01-1533-WD2	
10.01.2023	WD1	ST-01-1533-WD1	Heavy metals (As, Cd, Cr III, Cr VI, Cu, Pb, Ni, Hg, and Zn), TRH, PAH, BTEX, PCB, OCP/OPP
	WD2	ST-01-1533-WD2	

Table 9. Summary of analysis – Groundwater monitoring event

Sampled Date	Surface dam	Sample ID	Analysis
18.11.2022 (monitoring event 1)	GW4	ST-01-1533- GW4	Heavy metals (As, Cd, Cr, Cu, Pb, Ni, Hg, and Zn), TRH, PAH, BTEX, PCB, OCP/OPP
	GW5	ST-01-1533-GW5	
25.11.2022 (monitoring event 2)	GW4	ST-01-1533- GW4	Heavy metals (As, Cd, Cr, Cu, Pb, Ni, Hg, and Zn), TRH, PAH, BTEX, PCB, OCP/OPP
	GW5	ST-01-1533-GW5	
10.01.2023 (monitoring event 3)	GW4	ST-01-1533- GW4	Heavy metals (As, Cd, Cr, Cu, Pb, Ni, Hg, and Zn), TRH, PAH, BTEX, PCB, OCP/OPP, Cr-III, Cr-VI
	GW5	ST-01-1533-GW5	

12 SITE ASSESSMENT CRITERIA

12.1 Soil Assessment Criteria

The adopted site assessment criteria (SAC) used in this investigation were obtained from the Assessment of Site Contamination, National Environment Protection (Assessment of Site Contamination) Measure (1999), 2013 Amendment.

- Health Investigation Levels (HILs)

Based on the current and the proposed land use (large rural residential lots), **HIL A (Residential)** was considered as the appropriate criteria (Tier 1 screening criteria) relevant to this investigation. Hence the HIL A criteria were adopted.

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

- Health Screening Levels (HSLs)

HSLs were established for specific petroleum hydrocarbon fractions to assess the human health risk from vapour inhalation and direct contact pathways. The HSLs can vary depending on the physio-chemical properties of the soil, soil depth, and the presence of any building structures on site. The NEPM HSLs adopted for this investigation were developed for Silt (silt, silty clay, and silty clay loam) and are summarised in **Table 12.**

- Management Limits

Management limits apply to petroleum hydrocarbon fractions (F1, F2, F3, and F4) and indicate the maximum acceptable values on a site and apply to all soil depths if any petroleum hydrocarbon contamination is identified on a site. Management limits should be considered to identify the presence of non-aqueous phase liquids (NAPL), gross petroleum hydrocarbon contamination, potential fire or explosive risks, and damage to buried infrastructure and aesthetics of the site associated with petroleum hydrocarbons.

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 **Table 12.**

- Ecological Investigation Levels (EILs)

Ecological Investigation Levels (EILs) and Added Contaminant Limits (ACLs), where appropriate, have been derived for selected metals (As, Pb, Cu, Ni, Cr III, Zn) and organic compounds (DDT and Naphthalene) and are applicable for assessing risk to terrestrial ecosystems (NEPC, 2013). The EILs generally apply to the top 2 m of the soil.

Site-specific EILS were calculated based on the below formula: EIL=ABC (ambient background concentration) + ACL (added contaminant limit)

Input values were obtained from the laboratory analysis of two (2) soil samples collected from the natural profile at 0.6 m and 0.5 m BGL for Cation Exchange Capacity (CEC), pH and % Clay content.

The following input values were used to derive EILs:

- A low traffic volume in NSW;
- Conservative organic carbon content of 1% as site-specific values was not calculated;
- The average clay content of 21% in the absence of site-specific test results;
- An average pH of 7.5 was obtained from site-specific testing; and
- An average cation exchange capacity (CEC) of 10.6 meq/100g was obtained from site-specific testing.

Based on the site history and the assessment of the site, any contamination onsite was considered to be aged (i.e., not fresh). Due to the unavailability of iron content data in soils, a conservative iron content of 1% w/w has been used. The remaining parameters necessary for the EIL calculation (such as CEC, Clay content, and pH) were obtained from the laboratory analysis. The site-specific EILs calculated from the above parameters are presented in **Table 10** below.

Table 10. Site Assessment Criteria -Ecological Investigation Levels

Analyte	EIL (mg/kg) – Site-specific (Aged)
Arsenic	100
Copper	210
Nickel	180
Chromium	520
Lead	1100
Zinc	500
Naphthalene	170
DDT	180

- Ecological Screening Levels (ESLs)

Ecological screening levels (ESLs) have been developed for selected petroleum hydrocarbon compounds and total petroleum hydrocarbon (TPH) fractions and are applicable for assessing risk to terrestrial ecosystems. ESLs broadly apply to coarse- and fine-grained soils and various land uses. They are generally applicable to the top 2 m of soil.

The ESLs presented in **Table 11** below have been adopted from **Urban residential and public open space** criteria in NEPM Schedule B1 for *'fine'* soils.

Table 11. Ecological Screening Levels

Analyte		ESL (mg/kg)
Total Recoverable Hydrocarbons	C6-C10 (less BTEX)	180
	>C10-C16	120
	>C16-C34	1300
	>C34-C40	5600
BTEX	Benzene	65
	Toluene	105
	Ethylbenzene	125
	Xylene	45
Polycyclic Aromatic Hydrocarbons	Benzo(a)pyrene	0.7

- Acceptable statistical analysis

The soil sampling program was undertaken using a stratified sampling pattern in AEC 1, 2, and 3 and using a judgemental pattern in AEC5.

Soil samples were collected in a systematic pattern. 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 analytes exceed 250% of the SAC.

Table 12. Site Assessment Criteria

Analytes	Soil Investigation Criteria						Groundwater and surface water Investigation criteria	
	Health Investigation Levels (A)[1]	Health Screening Levels Residential (A)[2]		Management Limits (A) Fine soils (mg/kg)	EIL - site specific (mg/kg)	ESL (mg/kg)	AWDG[3] (µg/L)	ANZECC & ARMCANZ (2000)- Trigger values for freshwater (µg/L)-95%ile
		HSL (mg/kg)	Direct Contact (mg/kg)					
Arsenic (total)	100	-	-	-	100	-	10	24
Cadmium	20	-	-	-	-	-	2	0.2
Chromium (VI)	100	-	-	-	-	-	50	1
Copper	6000	-	-	-	-	-	2000	1.4
Lead	300	-	-	-	-	-	10	3.4
Mercury (inorganic)	40	-	-	-	-	-	1	0.6
Nickel	400	-	-	-	-	-	20	11
Zinc	7400	-	-	-	-	-	-	8
Polycyclic aromatic hydrocarbons (PAHs)	300	-	-	-	-	-	-	-
Carcinogenic PAHs (As BaP TEQ)	3	-	-	-	-	-	-	-
Phenols	3000	-	-	-	-	-	-	320
DDT+DDE+DDD	240	-	-	-	-	-	-	-
Aldrin and Dieldrin	6	-	-	-	-	-	-	-
Chlordane	50	-	-	-	-	-	-	0.14
Endosulfan	270	-	-	-	-	-	20	0.08
Endrin	10	-	-	-	-	-	-	0.02
Heptachlor	6	-	-	-	-	-	-	0.09
Hexachlorobenzene	10	-	-	-	-	-	-	-
Methoxychlor	300	-	-	-	-	-	-	-
Chlorpyrifos	160	-	-	-	-	-	10	-
Benzene	-	0.6	100	-	-	65	1	950
Toluene	-	390	14000	-	-	105	800	-

Analytes	Soil Investigation Criteria						Groundwater and surface water Investigation criteria	
	Health Investigation Levels (A)[1]	Health Screening Levels Residential (A)[2]		Management Limits (A) Fine soils (mg/kg)	EIL - site specific (mg/kg)	ESL (mg/kg)	AWDG[3] (µg/L)	ANZECC & ARMCANZ (2000)- Trigger values for freshwater (µg/L)-95%ile
		HSL (mg/kg)	Direct Contact (mg/kg)					
Ethyl Benzene	-	NL	4500	-	-	125	300	-
Xylene	-	95	12000	-	-	45	600	-
Naphthalene	-	4	1400	-	170	-	-	-
TRH: $C_6 - C_{10}$ (F1)	-	40	4400	800	-	180	-	-
TRH: $>C_{10}-C_{16}$ (F2)	-	230	3300	1000	-	120	-	-
TRH: $>C_{16}- C_{34}$ (F3)	-	-	4500	3500	-	1300	-	-
TRH: $>C_{34} - C_{40}$ (F4)	-	-	6300	10000	-	5600	-	-
Dibenz(a,h) anthracene	-	-	-	-	-	-	-	-
PAH(Total)	300	-	-	-	-	-	-	-
Benzo(a)pyrene	-	-	-	-	-	0.7	0.01	-

1. HIL A-standard residential with garden/accessible soil (home-grown produce <10% fruit and vegetable intake, (no poultry), includes children's day-care centres, preschools, and primary schools.
2. Health Screening Levels (HSL) for surface soils 0 m to <1 m where applicable. NL - Not Limiting.
3. AWDG-Drinking water (Australian Drinking Water Guidelines 2011, updated 2022)
4. GIL-Freshwater (NEPM schedule B1)

13 Groundwater and Surface water Assessment Criteria

- Groundwater investigation levels

The NEPM guidelines have established the following groundwater investigation levels of human health risks from a broad range of organic and inorganic contaminants for drinking water, freshwater, and marine water.

For the purpose of this assessment in relevance to the proposed and the current use of the site as residential use, the following guidelines were adopted for the investigation of chemical contaminants in groundwater:

- Australian and New Zealand Guidelines for Fresh and Marine Water Quality, 2000;
- Australian Drinking Water Guidelines, 2011, version 3.8 - updated Sep 2022;

Australian and New Zealand Guidelines for Fresh and Marine Water Quality (Volume 1) have established guidelines for trigger values for toxicants at alternative levels of protection for the following ecosystem conditions:

- High conservation/ecological value (Level of protection (% species): 99%)
- Slightly to moderately disturbed ecosystems (Level of protection (% species): 95%
- Highly disturbed ecosystems (Level of protection (% species): 90%

<u>Slightly to moderately disturbed ecosystems-95% species protection</u>

Based on the historical land use of the site as pastoral land which was primarily used for grazing and sheep rearing purposes it is considered that the land is slight to moderately disturbed.

Hence a 95%ile trigger value for freshwater was adopted and was considered as the appropriate criteria relevant to this investigation since the site is subject to receiving runoff from land disturbed to varying degrees by grazing or pastoralism as inferred in section 3.1.3.1 of ANZECC & ARMCANZ (2000) – Fresh and Marine water quality guidelines.

- Surface water investigation levels

For the purpose of this assessment in relevance to the proposed and the current use of the site as residential use, the following guidelines were adopted for the investigation of chemical contaminants in groundwater:

- Australian and New Zealand Guidelines for Fresh and Marine Water Quality, 2000; and
- Australian Drinking Water Guidelines, 2011, version 3.8 - updated Sep 2022.

Criteria for slightly to moderately disturbed ecosystems were adopted due to the historical use of the site and its surrounding land for pastoral and grazing purposes.

14 RESULTS AND DISCUSSION

14.1 Field Observations

Minor visual evidence of contamination was noted during the fieldwork investigation. In addition, during groundwater monitoring visual and olfactory observations were taken of the water quality. Water was reported to be clear with no odour post-purging in all groundwater wells installed (GW4 and GW5).

Topsoil was noted between 0.0-0.2m BGL during the field investigation in all soil bore. The topsoil was generally dark brown, moist, moderately stiff, and organic with the presence of roots. Fill material consisting of road base aggregates was observed between the depth of 0.0-0.5 m BGL underneath the access road surface and nearby built-up areas within AEC2 and AEC3. In the remaining sections of the site, the soil profile beneath 0.2m BGL up to the termination depth of 1.5 m BGL constituted natural soil and in some cases transitioned from a silty clay profile to a clayey silt. The natural layer was generally either light brown or red-brown-orange mottled and/or yellow-grey-brown mottled, slightly moist, and slightly stiff. The soil lithology is provided in **Table 13** below and bore log details are presented in **Appendix III- Bore logs.**

Table 13. Soil lithology

Soil profile	Depth (m BGL)	Soil type
Topsoil	0.0 to 0.2m BGL	Silty clay. Dark brown, moderately stiff, moist, organic, roots.
Fill (driveway and the built-up areas of AEC3)	0.2 to 0.5m BGL (limited sections)	Clayey silt with gravels. Grey, loose, dry.
Natural	0.2 to 1.5m BGL (limited sections)	Silty clay to clayey silt, light brown/ red-brown-orange mottled/ yellow-grey-brown mottled, slightly stiff, slightly moist.

During intrusive site investigation and site walkover inspections, no indications of potential contamination such as staining, odour, and discolouration were encountered. Due to the absence of any olfactory or visual evidence, no PID readings were taken on-site during this investigation.

14.2 Analytical Results

14.2.1 Soils

A total of eighty-eight (88). primary samples and four (4) QA/QC soil samples were analysed from eighty-eight (88) borehole locations and analysed for a range of CoPC as presented within section 10. Based on the analytical result from the DSI all CoPC were reported below the adopted SAC in all soil samples tested. A summary of laboratory results is provided in **Appendix VI** and laboratory certificates are provided in **Appendix VII**.

Heavy Metals

The concentrations of Heavy metals – Arsenic, Cadmium, Copper, Lead, Mercury, Nickel, and Zinc were below the SAC (HIL-A).

Chromium in soils

Total Chromium concentration was recorded between 5 mg/kg and 310 mg/kg in all the primary soil samples analysed. Additional 44 samples (i.e 50% of the primary samples) were selected for chromium speciation analysis. The analytical result shows that three (3) samples for Cr VI marginally exceeded the LOR of 0.5 mg/kg and well below the SAC of 100 mg/kg for Chromium VI. The speciation study also indicated that Cr III.

Ten (10) samples were selected based on the highest total chromium concentration and were subjected to Australian Standard Leaching Procedure (ASLP) test procedure. Leachate prepared from the ten (10) samples did not record any exceedances of Cr-VI above 0.004 mg/L.

Potential sources of soil chromium contamination at the site

Based on review of desktop information i.e., historical photographs, current and historical title records, aerial imaginary etc, K2 did not identify any potential site and/or anthropogenic activities which indicate chromium as a source of primary CoPC.

Total Chromium was detected in all eighty-eight (88) samples tested across the site. Further analysis on chromium speciation identified that chromium concentration was contributed by Cr III. Cr VI concentrations were reported below LOR in all soil samples analysed. It is understood that soil chromium is usually present in the Cr III oxidation state and is environmentally benign. The oxidised form – Cr VI is toxic, carcinogenic, and typically highly mobile in the environment.

It is also understood that chromium could be detected as natural background particularly as CR III form (Karl K, 1956). Karl K. (1956) indicates that chromium and nickel could be formed as a mineral naturally in basaltic rocks. During the fractional crystallization of basaltic magma, chromium-nickel ratio is preserved from the source of basaltic magma. Information obtained from the NSW Department of Planning, Industry and Environment portal eSpade and the geology of Crookwell consists of olivine basalt and dolerite to tertiary lava flows, which could be a potential source of total chromium in soils analysed from the site.

In addition, a case study undertaken by Burton et.al (2019) which investigated chromium geochemistry in bushfire-affected soils indicates that heating of naturally occurring Cr III in soils substituted iron oxides and drives rapid oxidation to the formation of Cr VI. This paper was also acknowledged by the Australian Nuclear Science and Technology Organisation (ANSTO) of the Australian Government. Any minor concentration of Cr VI detected on site could have been contributed by change in oxidation state caused by natural subsurface processes including bushfires.

TRH

The concentration of TRH in all the soil samples analysed was below the LOR.

BTEX

The concentration of BTEX in all the soil samples analysed was below the LOR.

PAH

The concentration of PAH in all the soil samples analysed was below the LOR.

PCB

The concentration of total PCB in all the soil samples analysed was below the LOR.

As the Site investigation has targeted particular features and areas of concern, statistical analysis of the results will not be undertaken and a direct comparison of the analytical results to the guidelines has been undertaken. Laboratory Results are presented in **Appendix VI** and **Appendix VII** for the lab results summary and lab reports of the analysis respectively.

14.2.2 Soil samples from the surface water dam

Two (2) soil samples (sample ID: ST-01-1533-WD1) and (sample ID: ST-01-1533-WD2) were collected from the bottom surface of the two surface water dams onsite, WD1 and WD2 respectively on 10th November 2022. Based on the laboratory analysis data, the concentrations of CoPC were below the adopted SAC of HIL A.

One (1) soil sample (ST-01-1533-WD1) was collected from the bottom surface of the water dam (WD1) on 10th January 2023. Based on the laboratory analysis data, the concentrations of CoPC were below the adopted SAC of HIL A.

14.2.3 Groundwater

Two (2) ground water monitoring wells were installed and developed on 10th November 2022.

A total of two primary samples were analysed for a range of CoPC; laboratory results from the three (3) sampling event is discussed below. Groundwater samples were collected from wells GW4 and GW5 on 18th Nov 2022, 25th Nov 2022 and 10th Jan 2023 for the following CoPC:

Based on all laboratory data it is inferred that one (1) groundwater sample collected on 10th Jan 2023 from the monitoring well (GW5) exceeded the SAC for Cr VI (SAC - 1 µg/L – ANZECC guidelines-95% species protection) but below the (SAC - 50 µg/L – Australian Drinking Water Guidelines (2022)). Refer to **Table 14** below for a summary of Cr-VI exceedances in groundwater. The analysis of the remaining CoPCs indicated no exceedances in a concentration above the SAC of freshwater guidelines.

Chromium VI in groundwater

When Cr III oxidises into Cr VI in natural environment, it can become mobile and travel from soil matrix to groundwater. The concentration of Cr VI identified in groundwater is marginally above the LOR. Since there are no anthropogenic sources or evidence of chromium VI contamination identified on site (**Section 14.2.1**), it is likely that geogenic Cr III may have been oxidised into Cr VI under natural processes .

Table 14. Summary of exceedances in groundwater samples

Water Dam ID	Sample ID	Sampled Date	Analyte	Analyte Concentration (µg/L)
GW5	ST-01-1533-GW5 (3)	10.01.2023	Chromium VI	14

14.2.4 Surface water

Surface water samples were collected from the two (2) surface water dams located on the map on 10th Nov 2022 and 10th Jan 2023.

Based on the laboratory analysis of two (2) samples collected on 10th Nov 2022 Sample ID: ST-01-1533-WD1 and ST-01-1533-WD2, it is inferred that:

- The water sample collected from the surface water dam (WD1) exceeded the concentrations for Copper above the SAC of- ANZECC 2000 guidelines 95% species protection but below the SAC for ADWG; and
- Water samples from WD2 exceeded the concentrations for Copper and Zinc above the SAC – ANZECC 2000 guidelines-95% species protection but below the SAC for ADWG.

Refer to **Table 15** below for a summary of exceedances.

Table 15. Summary of exceedances in surface water samples

Water Dam ID	Sample ID	Sampled Date	Analyte	Analyte Concentration Exceedance (µg/L)
WD1	ST-01-1533-WD1 (water dam)	10.11.2022	Copper	2
WD2	ST-01-1533-WD2 (water dam)		Copper	3
			Zinc	16

15 QUALITY ASSURANCE AND QUALITY CONTROL – DISCUSSION

15.1 Soil

- Intra-lab and inter-lab duplicate samples

Four (4) inter-lab and four (4) intra-lab samples were used to identify any variation in analyte concentration from a sample collected from the same sampling point and ensure the repeatability of the laboratory's analysis method. Intra-lab samples were collected to determine the analytical proficiency of the laboratory.

Replicate data for field duplicates for organics is expected to be as follows:

- RPD criteria of 50% or less, for concentrations ≥10 times LOR.
- No limit on RPD criteria - if the primary and duplicate concentration is <10 times LOR; and
- If both sample values are less than the LOR, the RPD is not calculated.

Replicate data for field duplicates for inorganics, including metals is expected to be as follows:

- RPD criteria of 30% or less, for concentrations ≥10 times LOR.
- No limit on RPD criteria - if the primary and duplicate concentration is <10 times LOR; and
- If both sample values are less than the LOR, the RPD is not calculated.

If both sample values are less than the LOR, the RPD is not calculated. A summary of the RPD between the primary and duplicate samples is provided in **Appendix V**.

Three (3) exceedances in intra-lab samples above the acceptable RPD criteria were noted. Two (2) exceedances in inter-lab samples above the acceptable RPD criteria were noted. This can be attributed to the heterogeneity of the soil samples. Refer to **Appendix V** – RPD Comparison.

- Laboratory Duplicate samples

Quality Assurance (QA) and quality control measures were implemented throughout the investigation and this information is summarised in **Appendix IV**.

Although the laboratory QA/QC did not meet the acceptance criteria for some compounds of OC/OP, PAH, and VOC suites in two (2) samples. The explanation provided by the laboratory (in the supplied laboratory certificate in **Appendix VII**) was acceptable as follows:

- At least 2 or 3 surrogates are within acceptance criteria; and
- Recovery failed acceptance criteria due to matrix interference.

The RPD differences between the primary sample and the laboratory duplicate sample of the remaining compounds were within acceptable limits.

The data QA/QC results are included in **Appendix IV**. Based on the results of the field QA, field and laboratory QC, and evaluation against the data quality indicators (DQI) it is concluded that the field and laboratory test data obtained are reliable, representative, comparable and complete for interpretation to achieve the investigation outcome

- Method Blanks

Data provided by the laboratory indicated that the key contaminants of interest in the method blanks were below the relevant standard LORs.

- Trip blank and Trip spike

Laboratory analysis indicated the concentrations of the CoPC in the trip blank did not exceed the relevant LOR.

Laboratory analysis indicated the trip spike was within the acceptable range of the laboratory QA/QC.

15.2 Groundwater and surface water QA/QC

The groundwater and surface water investigations related to the site are considered to be preliminary and hence no quality control samples were collected during these preliminary investigations. The primary sample results are considered to be sufficient to draw overall conclusions related to the project.

16 Revised Conceptual Site Model

The following section provides a revised conceptual model for the Site as a result of onsite activities and the Generic Assessment of the analytical results in the relation to their risk to Human Health, Ecological and Controlled Water receptors.

16.1 Identified Contaminant Sources

Based on the DSI undertaken by K2 Consulting Group, the CoPCs are summarised below.

16.1.1 Soil

No CoPCs were detected above the adopted SAC. There is a potential for contamination to be present below the building structures and the CoPCs include metals, TRH, BTEX, PAH and asbestos from the potential importation of any fill materials to assist in the construction of the buildings.

16.1.2 Groundwater

The concentration of Chromium VI marginally exceeded the adopted freshwater trigger values in one groundwater monitoring well (GW5).

16.1.3 Surface water

Exceedances of copper and zinc were noted in the surface water samples collected during the first round of investigation.

16.2 Receptors

The following receptors have been identified:

- Future end users of the proposed land use as low-density residential
- Site workers during the development phase of any future redevelopment
- Site users of surrounding properties
- The unconfined aquifer beneath the Site
- Surface water bodies in close proximity to the site
- Surrounding flora and fauna

16.3 Potential Pathways

The following pathways require consideration:

- Human Health
- Ingestion of soil
- Ingestion of groundwater
- Direct contact (i.e., groundwater)
- Terrestrial and Coastal Waters
- Migration of impacted groundwater to nearby surface water features
- Ecological
- Uptake of contaminants through the plant's root network.

16.4 Pollution Linkage Assessment

From the available data associated with the depth of fill materials and geology of the underlying site, it appears that minor soil disturbance has occurred during the historical use of the site. The concentrations of CoPC in soil recorded at the site are not considered a risk to human health or the wider environment.

With regards to the recorded elevated hexavalent chromium recorded at GW5 in excess of the EIL threshold value; further laboratory analysis was undertaken to determine the speciations of the chromium, (results are presented within Appendix VII). The results of the analysis indicated that the Cr VI exceeded the SAC (1 µg/L) (– ANZECC guidelines-95% species protection) but below the (SAC - 50 µg/L – ADWG (2022)). Taking this into consideration; the risk to the wider environment with regards to hexavalent chromium further assessment is recommended.

16.5 Summary of Significant Pollution Linkages

Based on the revised CSM, no significant pollution linkages have been identified in relation to the redevelopment of the site for the most sensitive end users. Further investigation and/or monitoring of groundwater is recommended to determine spatial and temporal variability of Cr-VI in groundwater.

17 CONCLUSIONS

17.1 Detailed Site Investigation

Based on the AECs identified by K2 during the DSI and review of site information, K2 concludes the following:

Soil

- Fill materials were observed in the soils below the surface of the access road and built-up areas in AEC2 and AEC3;
- Laboratory analysis of soil samples collected during ESI and DSI indicated elevated concentrations of total Chromium. Hence selected soil samples were subjected to Cr VI analysis and ASLP for Cr III and CR VI;
- Cr VI concentrations in the soil samples analysed were below the adopted SAC of HIL-A. ASLP analysis of selected soil samples detected no exceedances in Cr III and Cr VI concentrations above LOR; and
- The concentration of the remaining CoPCs (Heavy metals (As, Cd, Cr III. Cr VI, Cu, Pb, Ni, Hg, and Zn), TRH, PAH, BTEX, PCB, OCP/OPP and asbestos) in the soil samples was detected below the SAC-HIL A.

Based on the above, it can be concluded that all CoPCs in the soils meet the site acceptance criteria.

Surface Water

Exceedances of copper and zinc were noted to be above the ANZECC 2000 95% species protection levels in the surface water samples. This could be potentially contributed to surface water runoff. The ANZECC 2000 guidelines aim to identify any potential impacts on aquatic species from various chemical contaminants. It must be noted that this is a farm dam located inside an agricultural property and is not directly connected to any surface water bodies. The nearest surface water body is the Wollondilly River which is located 1.8 km from the site. Moreover, soil samples collected upstream and downstream of the surface water dams did not indicate any elevated levels of copper and zinc in soils at concentrations that could trigger any further investigation. Considering the above information collected during the site investigation, it can be concluded that the presence of copper and zinc in the surface water is localised and hence does not pose a significant threat to ecological aquatic communities.

It must be noted that the concentration of copper and zinc was below the ADWG and hence does not pose any threat to human health risk. The surface water is not proposed to be used for drinking purposes in the future.

Groundwater

Groundwater exceedance for Cr-VI was noted to be above the SAC of ANZECC 2000- 95% species protection levels. The concentration of Cr-VI in groundwater is not considered to pose a significant ecological risk for the following reasons:

- The groundwater onsite does not drain directly into any water bodies that have protected ecological aquatic species. The closest waterbody is the Wollondilly River which is located 1.8 km from the site;

- Cr-VI was neither detected in any soil samples nor in ASLP leaching tests, which indicates that Cr-VI is not prevalent in soil medium onsite and hence the potential for any vertical movement of Cr-VI into groundwater is ruled out; and
- The potential for any migration of Cr-VI from offsite sources was considered, however, it is unlikely as no activities such as industrial, electroplating, or other metal works were noted to be present in neighbouring properties.

Based on the above, it can be concluded that the concentration of Cr VI detected in groundwater is likely from the natural oxidation processes of Cr III as geogenic source and is not identified as a direct contamination source as result of historical land use at the site. Based on the findings above the on-site groundwater contamination from Cr VI onsite does not pose a significant risk tothe ecological aquatic species.

Based upon the investigations performed to date no potential pollutant linkages have been identified within the underlying soils which could be a risk to human health or the wider environment. Further investigation and monitoring are recommended for groundwater at AEC3 or near GW5.

On the basis that pollution linkages exist in relation to the site and the identified receptors, it is recommended that the Site be considered suitable for the proposed use, with further groundwater investigations of groundwater to address exceedances of Cr VI in the groundwater system. The concentration of Cr-VI was below the ADWG and is not proposed for human consumption in the future.

17.2 Data gaps

- The soils in the footprints of the dwelling shed, silo and storage in AEC1, AEC2, and AEC3 were not sampled due to access restrictions. Hence the possibility of fill materials exists in those areas; and
- The soils collected in AEC5 did not identify the presence of any CoPCs above the soil SAC. However, the minimum sampling density is not achieved during this investigation as a targeted sampling approach was adopted. Based on the site observation and soil chemistry data, although the likelihood of identifying contamination is low, the probability cannot be ascertained. Hence this is considered a data gap in the investigation.

18 RECOMMENDATIONS

Based on DSI results, K2 recommends the following:

- The septic system must be decommissioned and the soils in the vicinity shall be tested prior to further management;
- Complete a hazardous materials assessment of the building materials onsite before the commencement of demolition activities;
- Based on the site profile, the likelihood of the presence of fill materials below the building materials is low, however, it cannot be ruled out. The soils must be investigated for the presence of any fill materials after the demolition of the buildings on site and if any indications for the presence of fill materials are identified, then the unexpected finds procedure in section 19 shall be implemented;
- Prepare a surface water dewatering plan based on the data collected during this investigation. It is recommended that one additional round of water sampling is undertaken from the surface water dams to identify the status of the water before decommissioning to validate the absence of any heavy metals identified during this investigation; and
- If any potential contaminants are identified during soil bulk excavation works, follow the protocol of the unexpected work in Section 19.

19 UNEXPECTED FINDS PROCEDURE

During excavation, if visual indications of contamination are present such as significantly stained soils, odorous soils, sheen, tarry or ashy material, or unexpected anthropogenic material (other than what is expected to be encountered on site, including asbestos) then,

1. STOP EXCAVATION in the immediate/affected area;
2. Notify the Supervisor, Environmental Site Representative, and Client;
3. Contact a suitably qualified environmental consultant and Hygienist and seek further advice;
4. If required, separate the contaminated materials from non-contaminated materials based on the advice of the environmental consultant and other stakeholders;
5. suitably qualified environmental consultant to conduct an assessment of the material to determine suitability for reuse onsite. This step may require sampling and laboratory analysis; and
6. Ensure all re-use or off-site disposal plans are recorded before the re-commencement of works in the affected area.

Unexpected finds procedure (Asbestos)

In the event of the discovery of suspected asbestos-containing materials, the following steps are recommended to be undertaken:

1. Stop excavation in the immediate/affected area. Demarcate and isolate the area from workers;
2. Notify the Supervisor;
3. A trained and competent person such as an Environmental consultant/occupational hygienist must be engaged to identify the asbestos;
4. For less than 10m^2 of non-friable asbestos contamination, proceed with non-licenced asbestos removal and disposal in accordance with the Code of Practice: How to safely remove asbestos (2019);
5. For greater than 10m^2 of non-friable asbestos contamination, an environmental consultant or an occupational hygienist and a licenced asbestos removalist must be engaged for asbestos removal works in accordance with the Code of Practice: How to safely remove asbestos (2019);
6. For friable asbestos contamination, proceed with licenced asbestos removal work in accordance with per NSW SafeWork Code of Practice and other relevant contaminated land guidelines; and
7. Suitable for on-site reuse? Provide the client with the results of the assessment before proceeding to the next step.

For higher-risk situations, involving the risk of explosion and/or damage to underground services, the local authorities and emergency teams shall be contacted to manage the situation.

20 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.

The report is reviewed and authorised by Dr. Dawit Bekele (Certified Site Contamination Specialist CEnvP-SC (ID. SC41149) of crcCARE Pty Ltd. Dr. Dawit has provided an expert review of this report based on the information and data provided by K2. 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 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 the works undertaken were of a high standard. K2 does not take responsibility for the work or quality of reports produced by other parties involved in the project at any time.

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.

21 REFERENCES

- National Environment Protection Council (NEPC) 2013A, 'Schedule B(1) Guideline on Investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure (NEPM) (amended in May 2013)'.
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- Australian and New Zealand Environment and Conservation Council (ANZECC) & Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ), 2000 – Water Quality Guidelines and National Water Quality Management Strategy – Australian Drinking Water Guidelines (ADWG) 2011.
- Prof. Karl K. Turekian (1956), *The Chromium and Nickel distribution in basaltic rocks and Eclogites*, Yale University.
- Burton et. al. *Environ. Pollut.* 2019, 247 618-625.

Appendix I

Aerial Photographs

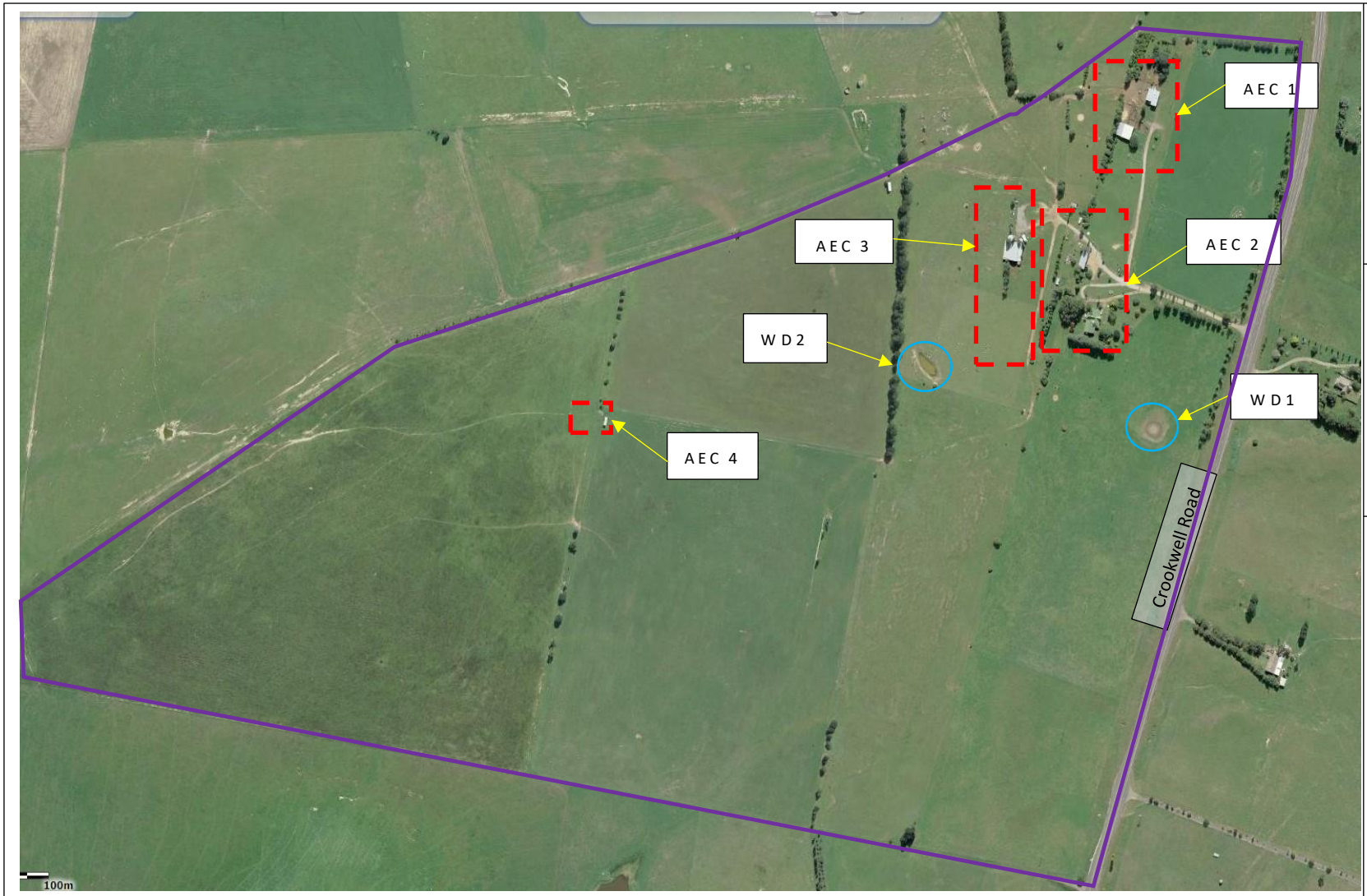


Figure 2. Aerial representation of the general site features.

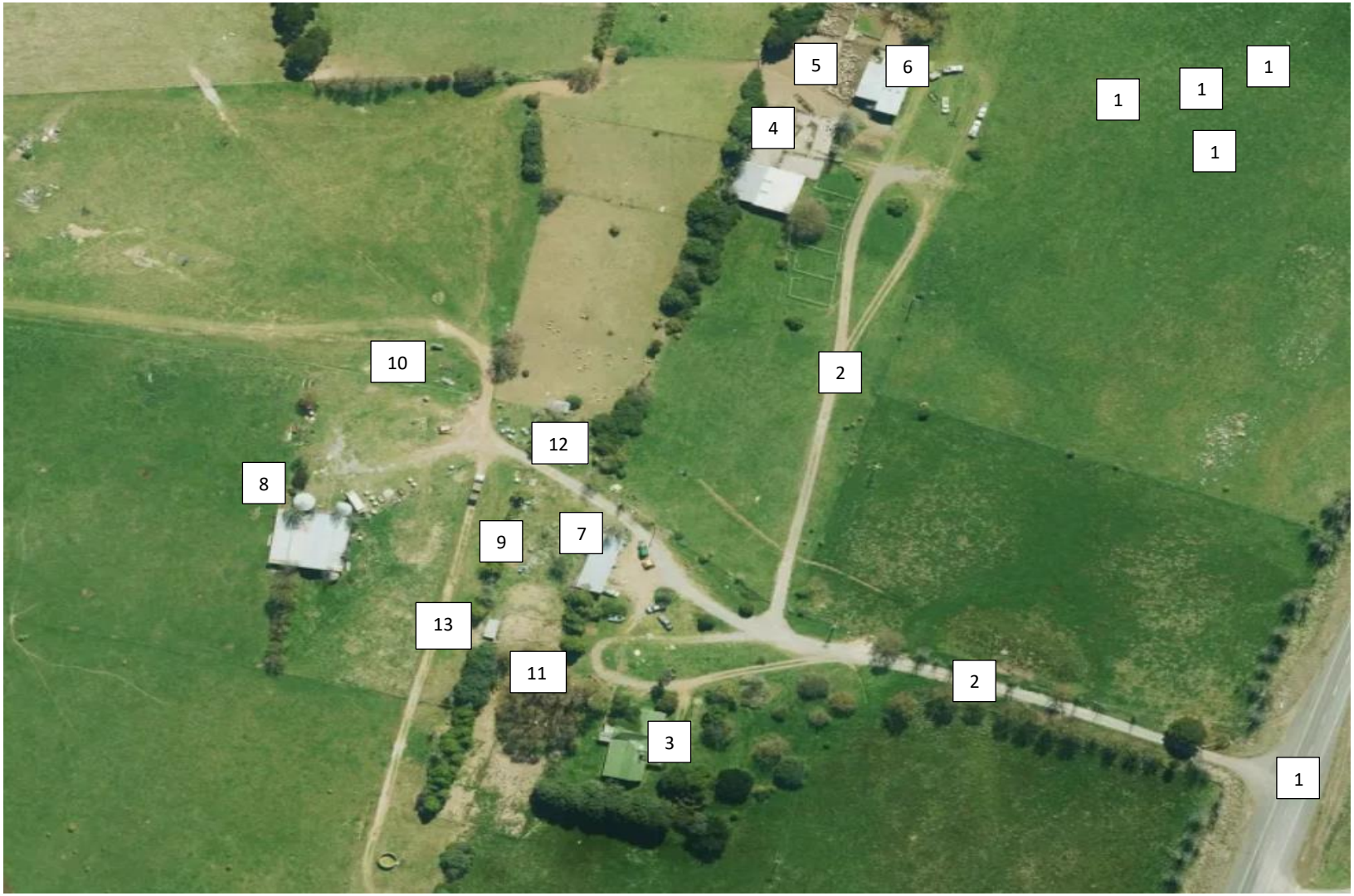


Figure 3. A summary of site features

Site Features

1. Crookwell Road
2. Access Road (unpaved)
3. Residential Dwelling
4. Storage shed
5. Cattle mustering station
6. Storage shed
7. Workshop shed
8. Silo and shed
9. Above ground fuel tanks and IBCs
10. Farming equipment
11. Dog kennels and shed
12. Farming equipment and IBCs
13. Shed

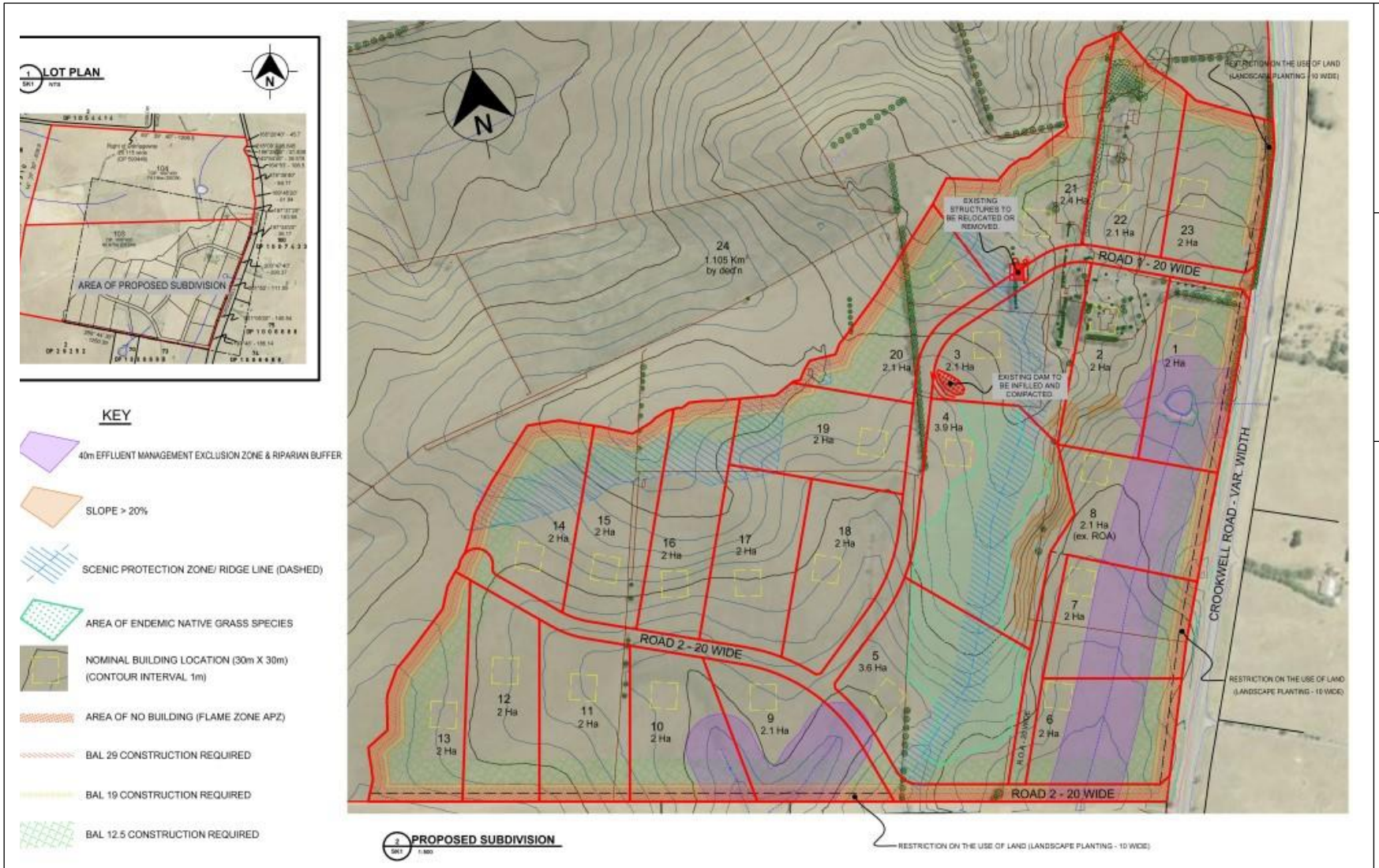


Figure 4. Proposed sub-division of the subject area on site (adapted from CivPlan PSI 2021)

Total Chromium concentration and ASLP results (August 2022)

Borehole ID	Depth (m)	Conc (mg/kg)	ASLP – Cr VI (mg/L)	ASLP – Cr III (mg/L)
BH01	0.2	190	<0.005	0.35
	0.7	150	NA	NA
	1.0	250	<0.005	<0.05
BH02	0.4	110	0.010	0.18
BH03	0.2	140	<0.005	0.16
	0.5	150	NA	NA
BH04	0.2	170	NA	NA
	0.4	110	0.011	0.20
BH08	0.2	160	0.014	0.11
BH11	0.2	130	0.016	0.044
	0.4	190	NA	NA
SS02	(Surface sample)	140	<0.005	<0.05

NA* Not Analysed

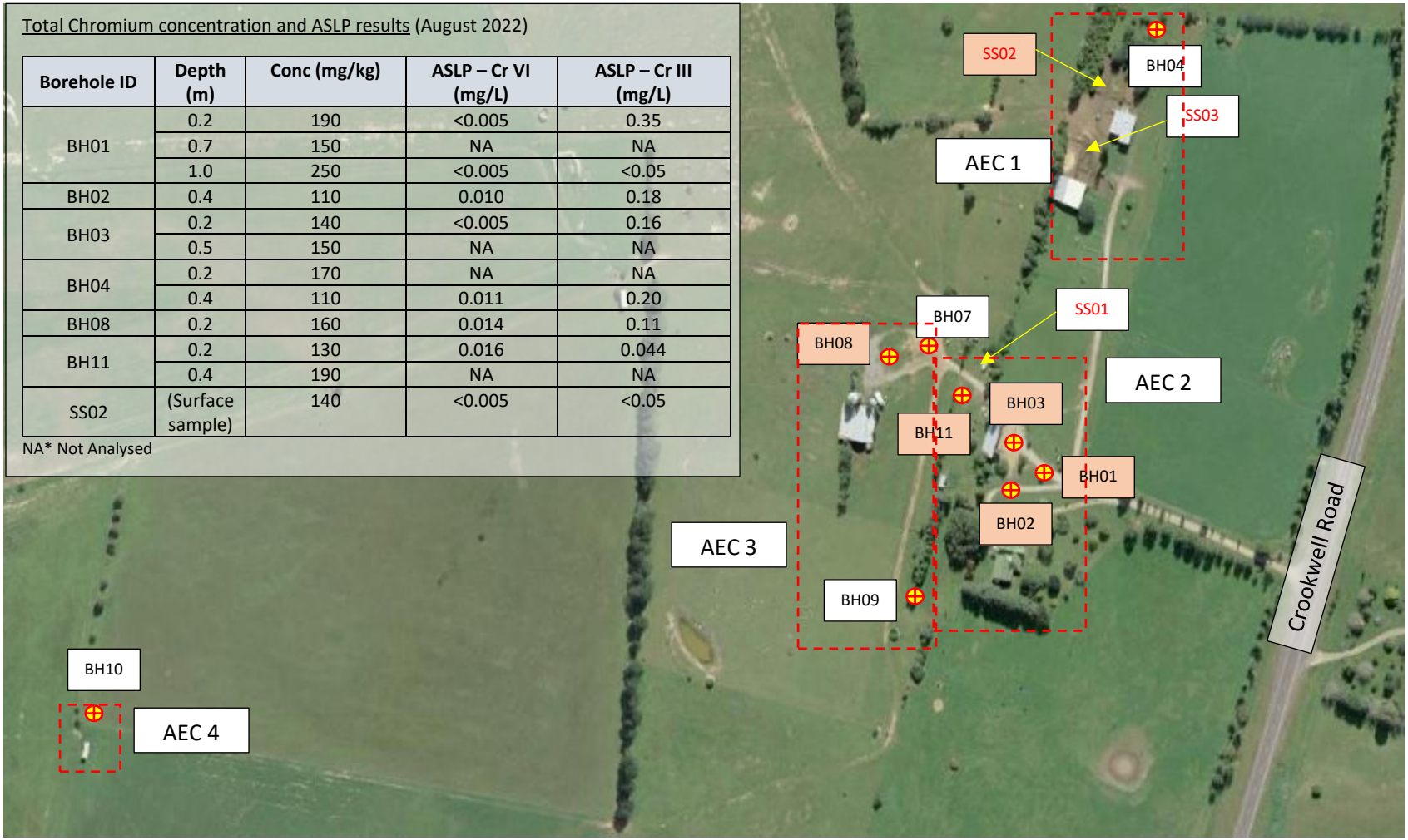


Figure 5. Borehole locations and Chromium concentrations during Stage 2 – ESI (August 2022).

Total Chromium (above 100 mg/kg) and Chromium VI concentration

Borehole ID	Depth (m)	Total Chromium concentration (mg/kg)	Chromium VI concentration mg/kg)
BH13	0.2	140	<0.5
BH14	0.2	130	<0.5
BH15	0.5	120	<0.5
BH16	0.2	110	<0.5
BH19	0.2	110	<0.5
BH21	0.5	310	<0.5
BH27	0.2	110	<0.5
BH28	0.4	120	<0.5
BH31	0.2	110	

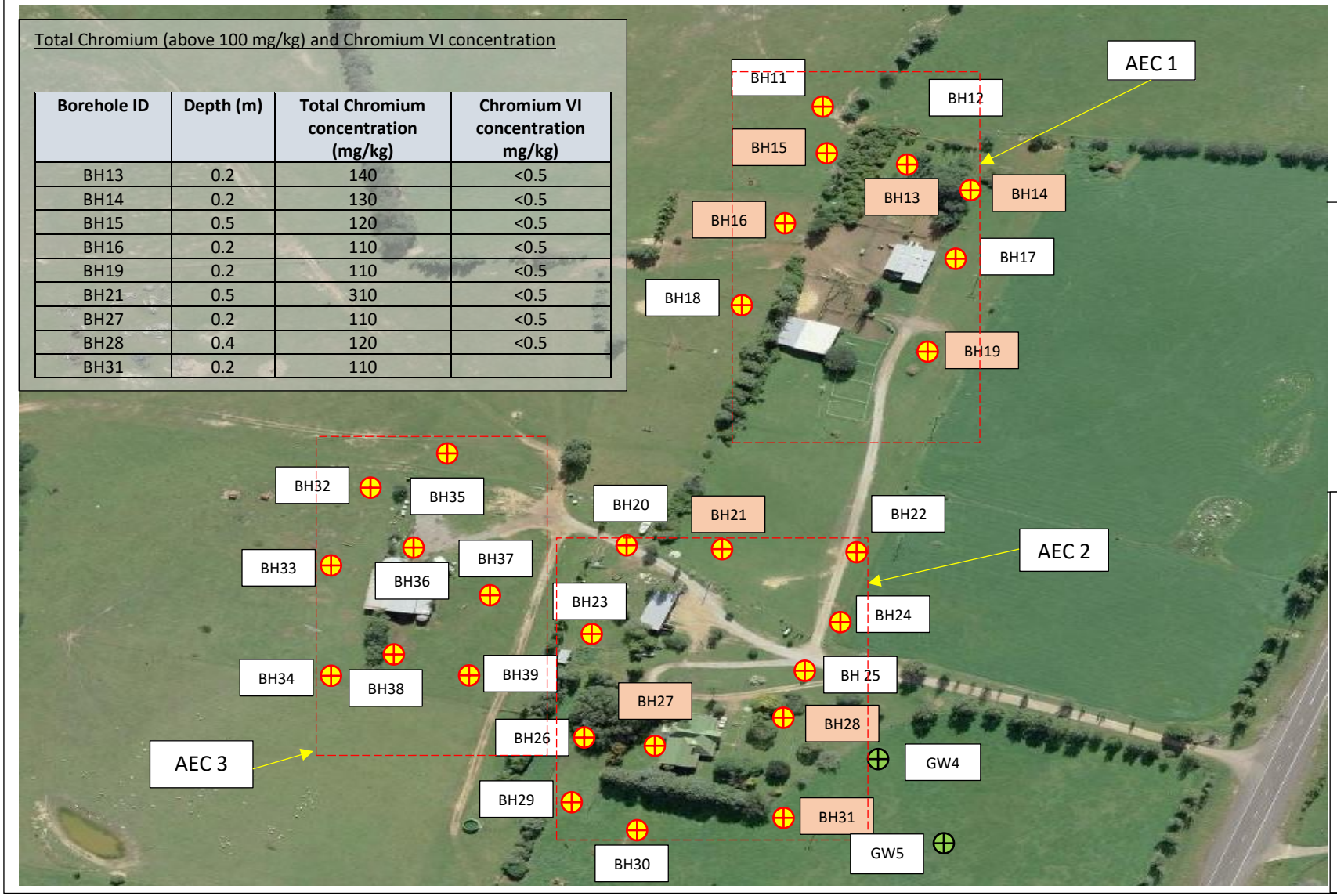
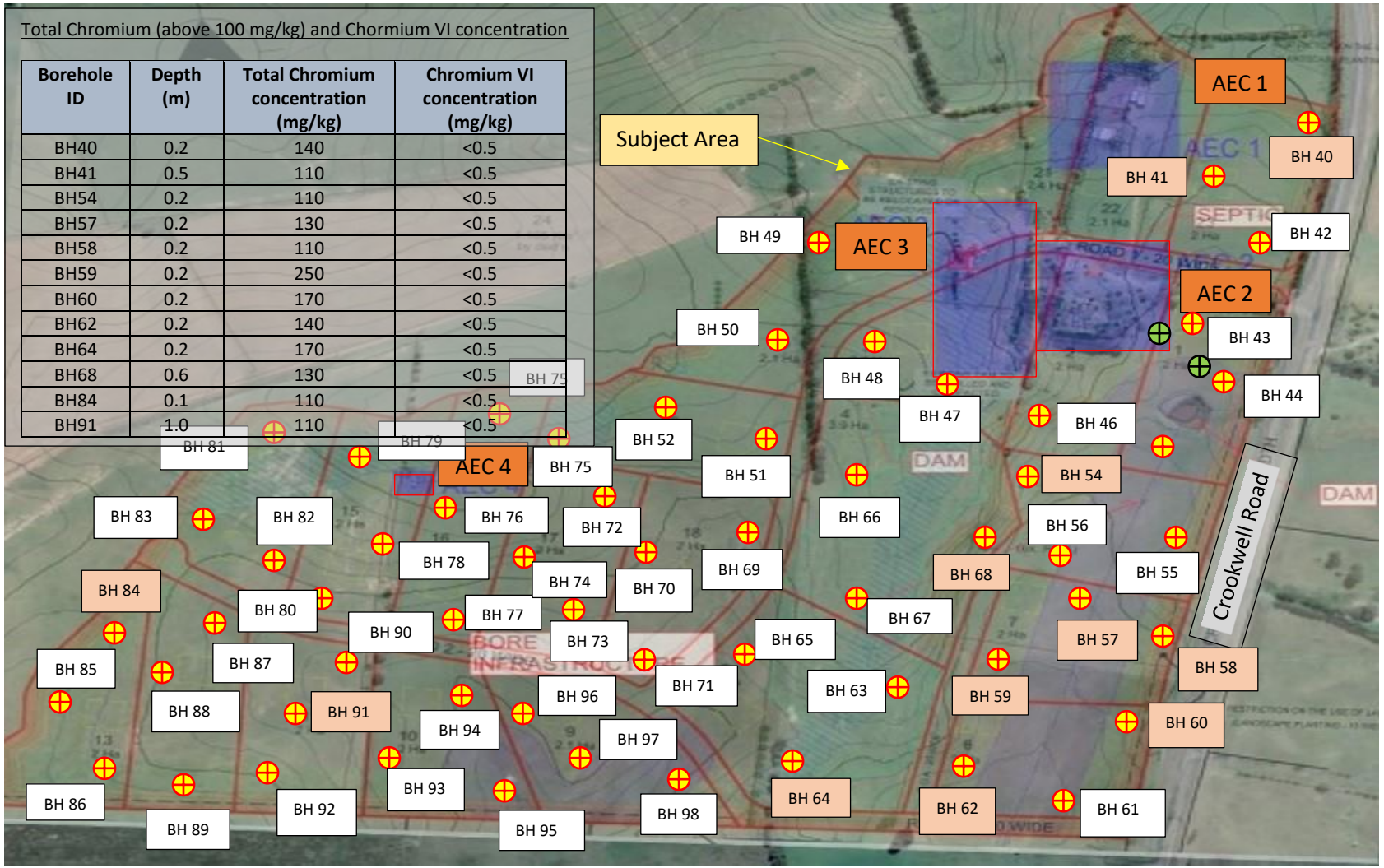


Figure 6. Borehole locations and summary of Total Chromium concentrations at AEC 1 and AEC 2. DSI (2023)

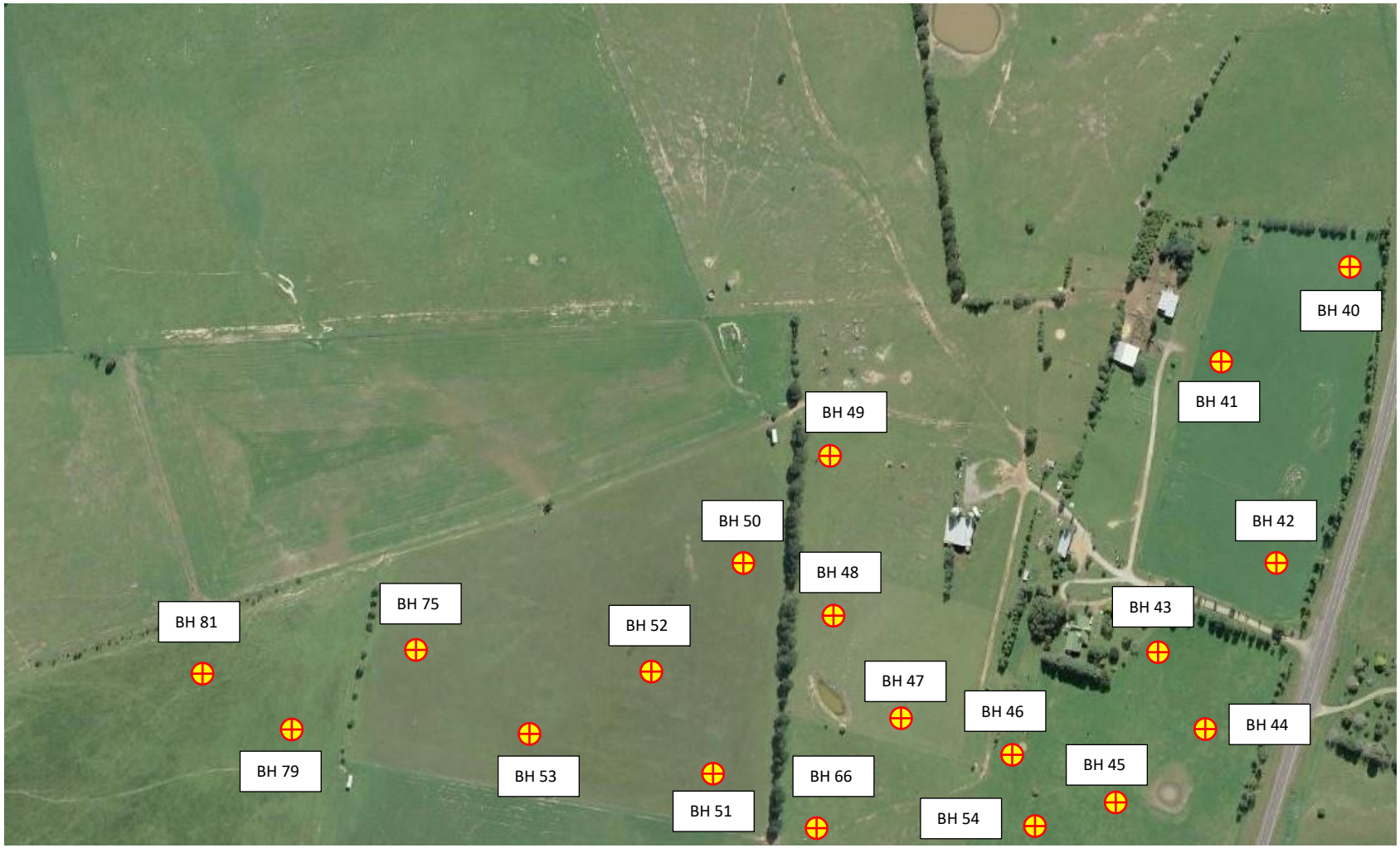
Total Chromium (above 100 mg/kg) and Chormium VI concentration

Borehole ID	Depth (m)	Total Chromium concentration (mg/kg)	Chromium VI concentration (mg/kg)
BH40	0.2	140	<0.5
BH41	0.5	110	<0.5
BH54	0.2	110	<0.5
BH57	0.2	130	<0.5
BH58	0.2	110	<0.5
BH59	0.2	250	<0.5
BH60	0.2	170	<0.5
BH62	0.2	140	<0.5
BH64	0.2	170	<0.5
BH68	0.6	130	<0.5
BH84	0.1	110	<0.5
BH91	1.0	110	<0.5



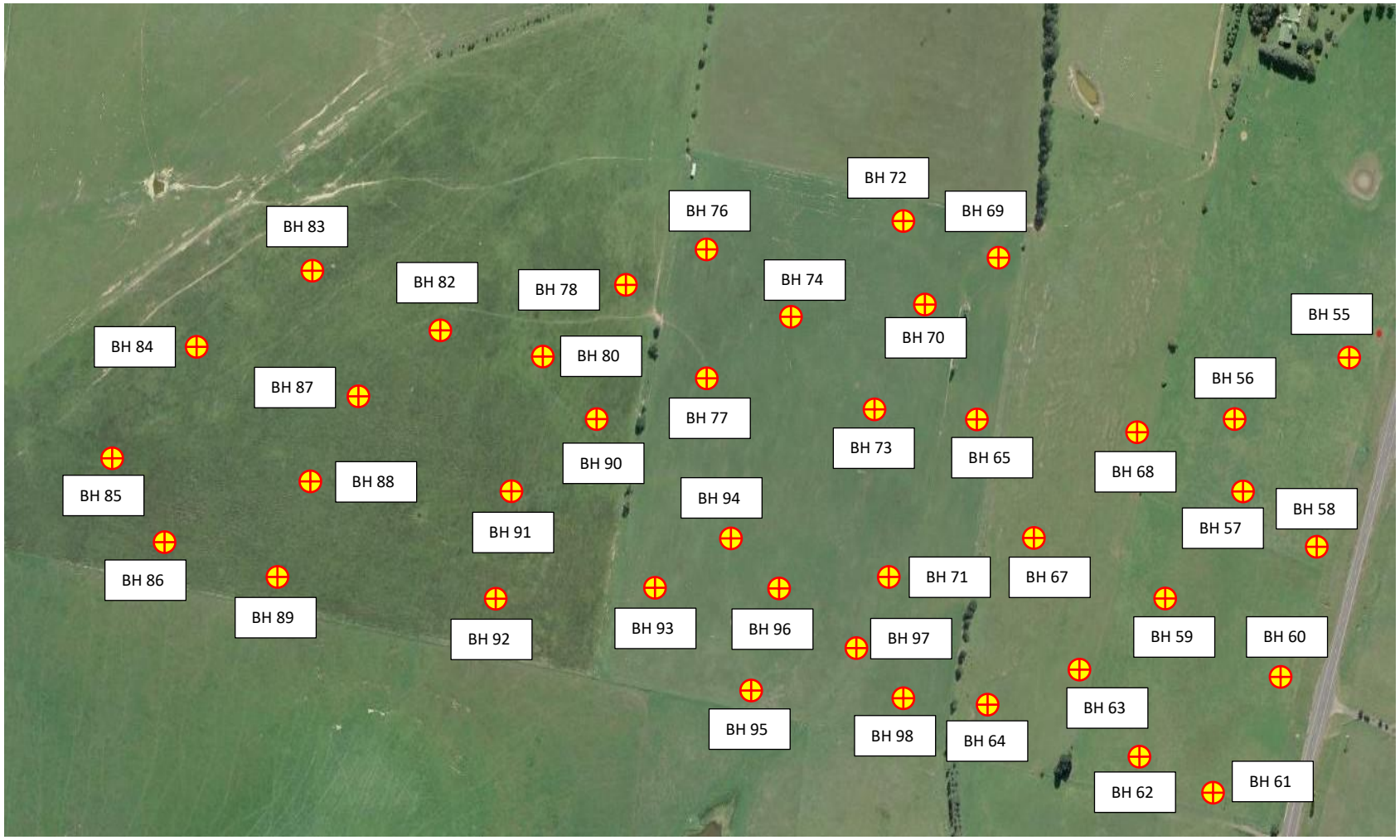
AEC 1 – Shed, silo
AEC 2 – Residential dwelling, shed
AEC 3 – Shed, silo
AEC 4 – Shed
Groundwater monitoring borehole
Borehole/Sampling location
Total Chromium concentration above 100 mg/kg

Figure 7. Total Chromium (above 100 mg/kg) and Chromium VI in areas outside AEC 1, AEC 2 and AEC 3 during detailed site investigation.



Borehole locations

Figure 8. Approximate borehole locations in the northern section of the subject area.



Borehole locations

Figure 9. Approximate borehole locations in the southern section of the subject area.

Appendix II

Photographs

Photo.1. Representative photo of the push tube drill rig used for soil sampling.

Photo.2. Representative photo of the soil profile observed at BH34.

Photo.3. Representative photo of the natural soil profile observed at BH24.

Photo.4. Representative photo of soil profile observed at BH51.

Photo.5. Representative photo of soil profile observed at BH20 using a hand auger. Hand auger was used at boreholes where drilling was not accessible via the drill rig.

Photo.6. Representative photo of the bedrock encountered during groundwater monitoring well installation.

Photo.7. Representative photo the groundwater monitoring well (GW5) after installation.

Photo.8. Representative photo of the surface water dam (WD1) observed on the southeast of AEC2.

Photo.9. Representative photo of the water sampling setup at groundwater monitoring well on site.

Photo.10. Representative photo of the soil profile observed at BH81 (0-1.0 m BGL).

Photo.11. Representative photo of the change in soil profile observed at BH71 from 0 to 1.0 m BGL.

Photo.12. Representative photo of the soil profile observed at BH45.

Appendix III

Bore Logs

K2 CONSULTING GROUP

BORE LOGS BH11

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.557' S 149°42.171' E
SURFACE ELEVATION 682m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH11(0.2m) ST-01-1533-BH11-ASB	Y		Topsoil. Silty CLAY. Red-brown. Organic. Moderately stiff. Very Moist.	
0.5	ST-01-1533-BH11(0.5m)			Natural. Silty CLAY. Yellow-Red mottled. Moderately stiff. Moist.	
1	ST-01-1533-BH11(1.2m)			Natural. Silty CLAY. Minor gravels. Slightly Stiff. Slightly moist.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH12

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.560' S 149°42.192' E
SURFACE ELEVATION 682m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH12(0.2m) ST-01-1533-BH12-ASB(0.2m	Y		Topsoil. Silty CLAY. Organic. Roots. Dark brown. Moist. Moderately stiff.	
				Fill. Gravelly. Dry. Loose. Greyish.	
0.5	ST-01-1533-BH142(0.7m) ST-01-1533-BH142-ASB			Natural. Silty CLAY. Slightly mottled Orange-Grey. Minor Gravels. Moist.	
1				Termination Depth at:1.1m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH13

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.577' S 149°42.187' E
SURFACE ELEVATION 682m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH13(0.2m) ST-01-1533-BH13-ASB(0.2m	Y		Topsoil. Silty CLAY Organic. Roots. Dark brown. Moist. Slightly stiff.	
				NATURAL. Silty CLAY. Moist. Moderately stiff. Dark brown.	
0.5	ST-01-1533-BH13(0.6m)			Natural. Clayey SILT. Slightly moist.Slightly loose. Slightly red-brown mottled.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH14

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.591' S 149°42.209' E
SURFACE ELEVATION 681m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH14(0.2m)	Y		Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff.	
	ST-01-1533-BH14-ASB(0.2m			NATURAL. Silty CLAY. Yellow-brown mottled. Moist. Moderately stiff.	
0.5					
	ST-01-1533-BH14(0.8m)				
1					
1.5	ST-01-1533-BH14(1.6m)			Natural. Clayey silt. Dark brown-orange mottled. Moist. Slightly stiff.	
				Termination Depth at:1.6m BGL (Rock refusal)	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH15

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.575' S 149°42.164' E
SURFACE ELEVATION 681m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH15(0.2m)	Y		Topsoil. Silty CLAY. Red-brown. Organic. Moderately stiff. Very Moist.	
	ST-01-1533-BH15-ASB(0.2m			Natural. Silty CLAY. Yellow-Grey mottled. Moderately stiff. Moist.	
0.5	ST-01-1533-BH15(0.5m)				
	ST-01-1533-BH15(0.9m)			Natural. Clayey SILT. Gravels. Slightly Stiff. Dry.	
1				Termination Depth at:1.1m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH16

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.591' S 149°42.154'E
SURFACE ELEVATION 681m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH16(0.2m) ST-01-1533-BH16-ASB(0.2m	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5				Natural. Silty clay with gravel. Light brown. Dry. Loose.	
1	ST-01-1533-BH16(1.0m)				
1.5				Termination Depth at:1.3m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH17

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.603' S 149°42.200' E
SURFACE ELEVATION 680m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH17(0.2m)	Y		Topsoil. Silty CLAY. Organic. Dark brown. Moist. Moderately stiff.	
	ST-01-1533-BH17-ASB(0.2m			Natural. Clayey SILT. Orange-brown-red mottled. Moist. Moderately stiff.	
0.5	ST-01-1533-B171(0.7m)				
				Termination Depth at:0.8m BGL	
1					
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH18

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.612' S 149°42.143' E
SURFACE ELEVATION 681m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH18(0.2m) ST-01-1533-ASB(0.2m) ST-01-1533-BH18(0.4m)	Y		Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff.	
0.5				NATURAL. Silty CLAY. Red-Brown mottled. Moist. Slightly stiff.	
	ST-01-1533-BH18(0.9m)			Silty CLAY with gravels. Grey. Loose. Dry.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH19

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.624' S 149°42.191' E
SURFACE ELEVATION 679m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH19(0.2m)	Y		Topsoil. Silty CLAY. Organic. Roots. Light to Dark brown. Moist. Slightly stiff.	
	ST-01-1533-BH19-ASB(0.2m			Residual. Silty CLAY. Moist. Moderately stiff. Dark brown	
0.5	ST-01-1533-BH19(0.6m)			Sandy SILT with gravels. Dry. Grey. Loose.	
1					
1.5					
2	ST-01-1533-BH19(2.0m)				
2.5					
3	ST-01-1533-BH19(3.0m)				
				Termination Depth at:3.1m BGL	
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH20

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 10/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Hand Auger

COORDINATES 34°42.672' S 149°42.130' E
SURFACE ELEVATION 680m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH20(0.2m) ST-01-1533-BH20-ASB(0.2m) ST-01-1533-BH20(0.5m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5				Natural. Silty Clay. Red-brown mottled. Moderately stiff. Moist.	
0.7				Termination Depth at:0.7m BGL	
1					
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH21

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.674' S 149°42.156' E
SURFACE ELEVATION 678m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH21(0.2m) ST-01-1533-ASB(0.2m)	Y		Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff.	
0.5	ST-01-1533-BH21(0.5m)			NATURAL. Silty CLAY. Yellow-Brown mottled. Moist. Moderately stiff.	
1	ST-01-1533-BH21 (1.2m)			NATURAL. Silty CLAY with gravels, light brown, loose, dry.	
1.5				Termination Depth at:1.3m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH22

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.680' S 149°42.179' E
SURFACE ELEVATION 678m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH22(0.2m)	Y		Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff.	
	ST-01-1533-BH21-ASB(0.2m			NATURAL. Silty CLAY. Yellow-Brown. Moist. Moderately stiff.	
0.5	ST-01-1533-BH22(0.6m)			Silty CLAY with gravels, Light brown, loose, dry	
1	ST-01-1533-BH22 (1.1m)			Termination Depth at:1.1m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH23

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 10/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Hand Auger

COORDINATES 34°42.701' S 149°42.122' E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH23(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
	ST-01-1533-BH23-ASB(0.2m				
				Natural. Clayey SILT. Light brown. Moderately stiff. Moist.	
0.5	ST-01-1533-BH23(0.5m)				Silty clay profile becomes more yellow-grey mottled from light brown.
	ST-01-1533-BH23(0.8m)				
				Termination Depth at:0.8m BGL	
1					
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH24

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.696' S 149°42.174' E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH24(0.2m) ST-01-1533-BH24-ASB(0.2m	Y		Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff.	
0.5	ST-01-1533-BH24(0.5m)			NATURAL. Silty CLAY. Orange-Brown mottled. Slightly Moist. Moderately stiff.	
1	ST-01-1533-BH24 (1.3m)			NATURAL. Silty CLAY with gravel. Grey-Brown mottled. Loose. Dry.	
1.5				Termination Depth at:1.3m BGL (Rock refusal)	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH25

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.712' S 149°42.168' E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH25(0.2m)	Y		Topsoil. Clayey SILT. Organic.Dark brown. Moist. Moderately stiff.	Roots
	ST-01-1533-BH25-ASB(0.2m			NATURAL. Silty CLAY.Mottled brown. Slightly Moist. Moderately stiff.	
0.5	ST-01-1533-BH25(0.5m)			Natural, Silty GRAVEL, loose, dry, Red-grey-brown mottled.	
1					
1.5				Termination Depth at:1.3m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH26

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 10/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Hand Auger

COORDINATES 34°42.722' S 149°42.119' E
SURFACE ELEVATION 680m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH26(surface sample) ST-01-1533-BH26(0.2m) ST-01-1533-BH26-ASB(0.2m ST-01-1533-BH26(0.5m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	Surface Sample- reddish brown.
0.5				Natural. Silty CLAY with minor gravels. Light brown. Moderately stiff. Moist.	
				Termination Depth at:0.7m BGL	
1					
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH27

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 10/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Hand Auger

COORDINATES 34°42.726' S 149°42.136' E
SURFACE ELEVATION 678m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH27(0.2m) ST-01-1533-BH27-ASB(0.2m	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5	ST-01-1533-BH27(0.5m)			Natural. Silty CLAY with minor gravels. Light brown. Moderately stiff. Moist.	
0.7				Termination Depth at:0.7m BGL	
1					
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH28

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.726' S 149°42.163' E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH28(0.2m) ST-01-1533-BH28-ASB(0.2m)	Y		Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff.	
	ST-01-1533-BH28(0.5m)			NATURAL. Silty CLAY.Reddish brown mottled. Slightly Moist. Slightly stiff.	
0.5				Natural. Silty CLAY with gravel. Grey. Loose. Dry.	
	ST-01-1533-BH28(0.9m)				
1					
				Termination Depth at:1.2m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH29

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 10/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Hand Auger

COORDINATES 34°42.735' S 149°42.114' E
SURFACE ELEVATION 679m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH29(0.2m) ST-01-1533-BH29-ASB(0.2m ST-01-1533-BH29(0.5m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5				Natural. Silty CLAY. Red-brown mottled. Moderately stiff. Moist.	
				Termination Depth at:0.7m BGL	
1					
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH30

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.741' S 149°42.138' E
SURFACE ELEVATION 678m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH30(0.2m) ST-01-1533-BH30(0.2m) ST-01-1533-BH30-ASB(0.2m ST-01-1533-BH30(0.5m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff.	Roots
0.5				Natural.Silty CLAY. Orange-brown mottled. Moderately stiff. Moist.	
1				Termination Depth at:0.9m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH31

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.744' S 149°42.161' S
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH31(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff.	Roots
	ST-01-1533-BH31-ASB(0.2m			Natural.Silty CLAY. Orange-brown mottled. Gravely. Slightly stiff. Dry.	
0.5	ST-01-1533-BH31(0.5m)				
1				Termination Depth at:0.95m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH32

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.655' S 149°42.070' S
SURFACE ELEVATION 682m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH32(0.2m) ST-01-1533-BH32-ASB(0.2m ST-01-1533-BH32(0.5m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5				Natural. Silty CLAY. Yellow-orange mottled. Slightly stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH33

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.676' S 149°42.064' S
SURFACE ELEVATION 682m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH33(0.2m) ST-01-1533-BH33-ASB(0.2m ST-01-1533-BH33(0.5m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5				Natural. Silty CLAY. Yellow-orange mottled. Slightly stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH34

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.697' S 149°42.058' E
SURFACE ELEVATION 681m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH34(0.2m) ST-01-1533-BH34-ASB(0.2m	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5	ST-01-1533-BH34(0.8m)			Natural. Silty CLAY. Yellow-orange mottled. Slightly stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH35

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.652' S 149°42.092' E
SURFACE ELEVATION 682m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH35(0.2m) ST-01-1533-BH35-ASB(0.2m	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5				Natural. Silty CLAY. Orange-grey-yellow mottled. Slightly sitff. Moist.	
	ST-01-1533-BH35(0.8m)			Natural. Silty CLAY. Light Brown. Slightly stiff. Moist.	
1				Termination Depth at:1m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH36

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.652' S 149°42.092' E
SURFACE ELEVATION 682m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH36(0.2m) ST-01-1533-BH36-ASB(02m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5	ST-01-1533-BH36(0.6m)			Fill. Silty Gravel. Compacted road base material. Brown-grey. Loose. Dry.	
1	ST-01-1533-BH36(0.8m)			Natural. Silty CLAY. Orange--grey mottled. Moderately moist. Slightly stiff.	
1.5				Termination Depth at:1m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH37

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.684' S 149°42.101' E
SURFACE ELEVATION 682m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH37(0.2m) ST-01-1533-BH37-ASB(0.2m	Y		Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Very stiff.	
0.5	ST-01-1533-BH37(0.6m) ST-01-1533-BH37(0.8m)			Natural. Silty CLAY. Yellow-red mottled. Slightly moist. Slightly loose.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH38

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.701' S 149°42.079' E
SURFACE ELEVATION 681m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH38(0.2m) ST-01-1533-BH38-ASB(0.2m	Y		Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff.	
0.5	ST-01-1533-BH38(0.8m)			Natural. Silty CLAY. Yellow-grey mottled. Some gravels. Moderately stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH39

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.707' S 149°42.097' E
SURFACE ELEVATION 681m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH39(0.2m) ST-01-1533-BH39-ASB(0.2m	Y		Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff.	
0.5	ST-01-1533-BH39(0.75m)			Natural. Silty CLAY. Yellow-grey mottled. Some gravels. Moderately stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH40

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.598' S 149°42.275' E
SURFACE ELEVATION 680m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH40(0.2m) ST-01-1533-BH40-ASB(0.2m)	Y		Topsoil. Silty CLAY. Organic. Roots. Light to Dark brown. Moist. Slightly stiff.	
0.5	ST-01-1533-BH40(0.5m)			NATURAL. Silty CLAY. Moist. Slightly stiff. Red-brown mottled.	
1				Clayey SILT. Green-Brown mottled. Minor gravels. Slightly moist.	
1.5	ST-01-1533-BH40(1.4m)			Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH41

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.645' S 149°42.209' E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH41 (0.2m) ST-01-1533-BH41-ASB (0.2m)	Y		Topsoil. Silty CLAY. Organic. Roots. Dark brown. Very moist. Moderately stiff. Moist.	
0.5	ST-01-1533-BH41 (0.5m)			NATURAL. Silty CLAY.Yellowish brown. Moist. Moderately stiff.	
1				Clayey SILT with gravels, Grey, Loose dry	
1.5	ST-01-1533-BH41 (1.4m)			Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH42

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 7/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.701' S 149°42.236' E
SURFACE ELEVATION 676m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH42(0.2m) ST-01-1533-BH42-ASB(0.2m)	Y		Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff.	
				NATURAL. Silty CLAY.Yellowish brown. Moist. Moderately stiff.	
0.5	ST-01-1533-BH42(0.5m)				
				Siltstone. Light grey. Loose. Dry.	
1	ST-01-1533-BH42 (1.2m)				
				Termination Depth at:1.2m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH43

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.728' S 149°42.195' E
SURFACE ELEVATION 676m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH43(0.2m) ST-01-1533-BH43-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff.	Roots
0.5	ST-01-1533-BH43(0.5m)			Natural.Silty CLAY. Orange-yellow mottled. Moderately stiff. Moist.	
1	ST-01-1533-BH43(1.1m)			Natural. Clayey SILT. Grey-brown mottled. Gravels. Dry.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH44

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.767' S 149°42.204' E
SURFACE ELEVATION 676m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH44(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Very Moist.	Roots
	ST-01-1533-BH44-ASB(0.2m				
0.5	ST-01-1533-BH44(0.6m)			Natural. Silty CLAY. Orange-yellow mottled. Moderately stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH45

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.801' S 149°42.166' E
SURFACE ELEVATION 675m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	ST-01-1533-BH45(0.2m) ST-01-1533-BH45-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Very Moist.	Roots
0.5	ST-01-1533-BH45(0.7m)			Natural.Silty CLAY. Yellow-brown mottled. Moderately stiff. Moist.	
1	ST-01-1533-BH45(1.1m)			Natural. Clayey SILT. Grey. Slightly stiff. Dry.	
1.5				Termination Depth at:1.35m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH46

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.770' S 149°42.112' E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
	ST-01-1533-BH46(0.2m) ST-01-1533-BH46(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff.	Roots
0.5	ST-01-1533-BH46(0.5m)			Natural.Silty CLAY. Red-brown mottled. Moderately stiff. Moist. Some gravels.	
1				Termination Depth at:0.8m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH47

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.750' S 149°42.069' E
SURFACE ELEVATION 679m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH47(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	Roots
	ST-01-1533-BH47-ASB(0.2m			Natural. Clayey SILT. Grey-yellow-orange mottled. Moderately stiff. Moist.	
0.5	ST-01-1533-BH47(0.6m)				
1				Termination Depth at:0.9m BGL (Rock refusal)	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH48

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.740' S 149°42.029' E
SURFACE ELEVATION 679m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH48(0.2m) ST-01-1533-BH48-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	Roots
0.5	ST-01-1533-BH48(0.6m)			Natural. Clayey SILT. Yellow-red mottled. Compact. Moist.	
1				Termination Depth at:0.7m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH49

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.672' S 149°42.012' E
SURFACE ELEVATION 269m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0.5	ST-01-1533-BH49(0.2m) ST-01-1533-BH49-ASB(0.2m ST-01-1533-BH49(0.5m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist. Natural. Silty CLAY. Grey-yellow-orange mottled. Slightly stiff. Moist.	
1 1.5 2 2.5 3 3.5 4 4.5 5 5.5				Termination Depth at:0.8m BGL (Rock refusal)	

K2 CONSULTING GROUP

BORE LOGS BH50

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.720' S 149°42.980' E
SURFACE ELEVATION 680m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH50(0.2m) ST-01-1533-BH50-ASB(0.2m	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	Roots
0.5	ST-01-1533-BH50(0.8)			Natural. Silty CLAY. Brown-orange-red mottled. Moderately stiff. Slightly Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH51

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.778' S 149°41.960' E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH51(0.2m) ST-01-1533-BH51-ASB(0.2m ST-01-1533-BH51(0.6m)	Y		Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist.	
0.5				Natural. Clayey SILT. Orange-red mottled. Slightly Stiff. Slightly Moist.	
1				Termination Depth at:0.8m BGL (Rock refusal)	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH52

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.751' S 149°42.920' E
SURFACE ELEVATION 679m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH52(0.2m) ST-01-1533-BH52-ASB(0.2m	Y		Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist.	
0.5	ST-01-1533-BH52(0.7m)			Natural. Silty-CLAY. Orange-red mottled. Slightly Stiff. Slightly Moist.	
1				Natural. Clayey SILT with gravels. Red-orange mottled.Slightly stiff. Moist.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH53

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.778' S 149°41.876' E
SURFACE ELEVATION 679m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH53(0.2m) ST-01-1533-BH53-ASB(0.2m	Y		Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist.	
0.5				Natural. Clayey SILT. Brown-grey mottled. Slightly Stiff. Moist.	
	ST-01-1533-BH53(0.7m)			Natural. Clayey SILT. Grey-orange mottled.Slightly stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH54

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.820' S 149°42.102' E
SURFACE ELEVATION 675m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH54(0.2m) ST-01-1533-BH54-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff.	
0.5	ST-01-1533-BH54(0.5m)			Natural.Silty CLAY. Red-brown mottled. Moderately stiff. Moist. Some gravels.	
1	ST-01-1533-BH54(0.9m)			Natural. Clayey SILT. Loose. Dry. Grey-brown.	
1.5				Termination Depth at:1.18m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH55

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.843' S 149°42.193' E
SURFACE ELEVATION 674m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH55(0.2m) ST-01-1533-BH55-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moist. Moderately stiff.	roots
0.5	ST-01-1533-BH55(0.6m)			Natural.Clayey SILT. Gravely. Brown-grey mottled. Slightly stiff.	
1				Termination Depth at:1.08m BGL (rock refusal)	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH56

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.849' S 149°42.120' E
SURFACE ELEVATION 673m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH56(0.2m) ST-01-1533-BH56-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff.	
0.5				Natural.Silty CLAY. Brown. Moderately stiff. Moist.	
1	ST-01-1533-BH56(0.9m)				
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH57

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.879' S 149°42.129' E
SURFACE ELEVATION 672m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH57(0.2m) ST-01-1533-BH57-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Moderately stiff.	
0.5	ST-01-1533-BH57(0.5m)			Natural.Clayey SILT. Brown-grey mottled. Loose. Dry.	
				Termination Depth at:0.66m	
1					
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH58

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.899' S 149°42.166' E
SURFACE ELEVATION 672m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH58(0.2m) ST-01-1533-BH58-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moist. Moderately stiff.	roots
				Natural.Clayey SILT. Brown. Slightly stiff. Moist.	
0.5	ST-01-1533-BH58(0.5m)				
				Clayey SILT with gravels. Grey-brown mottled.Slightly stiff. Dry.	
1	ST-01-1533-BH58(1.1m)				
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH59

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.918' S 149°42.059' E
SURFACE ELEVATION 670m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH59(0.2m) ST-01-1533-BH59-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moist. Moderately stiff.	
0.5	ST-01-1533-BH59(0.6m)			Natural. Silty CLAY. Red-yellow mottled. Slightly stiff. Dry. Gravely.	
1					
1.5				Termination Depth at:1.22m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH60

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.964' S 149°42.139' E
SURFACE ELEVATION 670m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH60(0.2m) ST-01-1533-BH60-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Very stiff.	
0.5	ST-01-1533-BH60(0.6m)			Natural. Silty CLAY. Yello-grey mottled with dark grey patches. Gravely. Slightly moist. Slightly loose.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH61

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°43.014' S 149°42.094' E
SURFACE ELEVATION 668m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH61(0.2m) ST-01-1533-BH61-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Very Moist. Very stiff.	
0.5	ST-01-1533-BH61(0.5m)			Natural. Silty CLAY. Dark brown. Moist.	
1				Natural. Clayey SILT. Grey-brown-yellow mottled. Slightly moist. Slightly loose.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH62

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.969' S 149°42.043' E
SURFACE ELEVATION 669m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH62(0.2m) ST-01-1533-BH62-ASB(0.2m	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moist. Moderately stiff.	
0.5	ST-01-1533-BH62(0.7m)			Silty CLAY. Natural. Yellow-brown mottled.Slightly stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH63

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.927' S 149°42.012' E
SURFACE ELEVATION 672m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH66(0.2m) ST-01-1533-BH66-ASB(0.2m	Y		Topsoil. Silty CLAY. Dark brown. Moist. Slightly stiff. Moist.	
0.5	ST-01-1533-BH66(0.8m)			Natural. Silty CLAY. Gravelly. Red-orange mottled. Moderately Stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH64

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.967' S 149°42.957' E
SURFACE ELEVATION 671m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH64(0.2m) ST-01-1533-BH64-ASB(0.2m	Y		Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist.	
0.5	ST-01-1533-BH64(0.5m)			Natural. Silty CLAY. Red-yellow mottled.Slightly Stiff. Slightly Moist.	
1	ST-01-1533-BH64(0.9m)			Natural. Clayey SILT with gravels. Orange-yellow mottled. Slightly stiff. Dry.	
1.5				Termination Depth at:1.3m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH65

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.894' S 149°41.941' E
SURFACE ELEVATION 675m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH65(0.2m) ST-01-1533-BH65-ASB(0.2m) ST-01-1533-BH65(0.4m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	Roots
0.5				Natural. Silty CLAY. Yellow-grey mottled. Moderately stiff. Moist.	
1	ST-01-1533-BH65(0.9m)				
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH66

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.805' S 149°42.015'E
SURFACE ELEVATION 678m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH66(0.2m) ST-01-1533-BH66-ASB(0.2m	Y		Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist.	
0.5	ST-01-1533-BH66(0.8m)			Natural. Silty CLAY. Red-yellow mottled. Moderately Stiff. Moist.	
1				Natural. Clayey SILT. Grey-yellow mottled. Slightly stiff. Dry.	
1.5				Termination Depth at:1.3m BGL (Rock refusal)	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH67

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.872' S 149°42.021 E
SURFACE ELEVATION 675m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH67(0.2m)	Y		Topsoil. Silty CLAY. Minor gravels. Organic. Dark brown. Moist. Moderately stiff.	
	ST-01-1533-BH67-ASB (0.2m)			Natural. Silty CLAY. Grey-yellow mottled. Moist. Moderately stiff.	
0.5	ST-01-1533-B671(0.6m)				
				Silty Clay. Gravely. Slightly moist. Slightly loose.	
1	ST-01-1533-BH67(1m)				
				Termination Depth at:1.3m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH68

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.840' S 149°42.067' E
SURFACE ELEVATION 675m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH68(0.2m) ST-01-1533-BH68-ASB(0.2m	Y		Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist.	
0.5	ST-01-1533-BH68(0.6m)			Natural. Silty CLAY with gravels. Dark brown. Loose. Dry.	
1					
1.5				Termination Depth at:1.2m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH69

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.832' S 149°41.944' E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH69(0.2m) ST-01-1533-BH69-ASB ST-01-1533-BH69(0.4)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	Roots
0.5				Natural. Silty CLAY. Brown-yellow mottled. Moderately stiff. Moist.	
1				Clayey SILT with gravels. Yellow-grey mottled. Loose. Dry.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH70

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.849' S 149°41.913 E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH70(0.2m) ST-01-1533-BH70-ASB(0.2m	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5	ST-01-1533-BH70(0.9m)			Natural.Silty CLAY. Red-yellow-grey mottled.Slightly stiff. Slightly moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH71

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.905' S 149°41.903' E
SURFACE ELEVATION 673m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH71(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Very Moist.	
	ST-01-1533-BH71-ASB(0.2m			Natural. Silty CLAY. Residual layer. Dark to light brown. Moderately stiff. Moist.	
0.5				Natural. Silty CLAY. Red-yellow mottled. Moderately stiff. Moist.	
	ST-01-1533-BH71(0.9)				
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH72

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT DPT (direct push tube) (

COORDINATES 34°42.803' S 149°41.899' E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH72(0.2m) ST-01-1533-BH72-ASB(0.2m	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5	ST-01-1533-BH72(0.8m)			Natural.Silty CLAY. Red-yellow-grey mottled.Slightly stiff. Slightly moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH73

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.872' S 149°41.877' E
SURFACE ELEVATION 675m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH73(0.2m) ST-01-1533-BH73-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	Roots
				Natural. Silty CLAY. Light brown. Moderately stiff. Moist	
0.5				Natural. Clayey silt. Red-yellow mottled.Moderately stiff. Moist.	
	ST-01-1533-BH73(0.9m)				
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH74

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.820' S 149°41.852' E
SURFACE ELEVATION 678m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH74(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
	ST-01-1533-BH74-ASB(0.2m			Natural.Silty CLAY. Red-brown mottled.Moderately stiff. Moist.	
0.5	ST-01-1533-BH74(0.7m)				
				Natural. Clayey SILT. Grey-yellow mottled.Slightly stiff. Dry.	
1	ST-01-1533-BH74(1.1m)				
				Termination Depth at:1.27m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH75

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.754' S 149°41.813' E
SURFACE ELEVATION 680m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH75(0.2m)	Y		Topsoil. Silty CLAY. Minor Gravels. Dark brown. Organic. Moderately stiff. Moist.	
	ST-01-1533-BH75-ASB(0.2m			Natural. Silty CLAY. Brown-yellow. Stiff. Moist.	
0.5	ST-01-1533-BH75(0.7m)				
1	ST-01-1533-BH75(1.0m)			Natural. Silty CLAY. Grey-orange-yellow mottled. Moderately stiff. Slightly Moist.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH76

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.787' S 149°41.781' E
SURFACE ELEVATION 678m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH76(0.2m) ST-01-1533-BH76-ASB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5	ST-01-1533-BH76(0.7m)			Natural.Clayey SILT. Red-yellow mottled.Moderately stiff. Moist.	
1	ST-01-1533-BH76(1.1m)			Natural. Clayey SILT.Grey-red mottled.Slightly stiff. Dry.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH77

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.863' S 149°41.825' E
SURFACE ELEVATIONU 674m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH77(0.2m) ST-01-1533-BH77-AB(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	Roots
0.5	ST-01-1533-BH77(0.7m)			Natural.Clayey SILT. Red-brown mottled. Slightly stiff. Dry.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH78

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.803' S 149°41.745' E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH78(0.2m) ST-01-1533-BH78-ASB(0.2m)	Y		Topsoil. Silty CLAY. Organic. Dark to light brown. Moist. Moderately stiff.	
0.5	ST-01-1533-BH78(0.8m)			Natural. Silty CLAY. Yellow-red mottled. Moderately stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH79

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.766' S 149°41.734' E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH79(0.2m) ST-01-1533-BH78-ASB(0.2m)	Y		Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff.	
	ST-01-1533-BH79(0.4m)			Natural. Red-brown-yellow mottled. Silty CLAY. Moderately stiff. Moist.	
0.5				Natural. Silty CLAY. Red-brown mottled. Gravels. Slightly loose. Dry.	
1	ST-01-1533-BH79(1.1m)				
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH80

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.847' S 149°41.718' E
SURFACE ELEVATION 675m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH80(0.2m) ST-01-1533-BH80-ASB(0.2m)	Y		Topsoil. Clayey SILT. Organic. Dark to light brown. Moist. Moderately stiff. Some Gravels.	
0.5	ST-01-1533-BH80(0.6m)			Natural. Silty CLAY. Yellow-red-grey mottled. Moderately stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH81

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.755' S 149°41.683' E
SURFACE ELEVATION 678m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH81(0.2m) ST-01-1533-BH81-ASB(0.2m)	Y		Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff.	
0.5	ST-01-1533-BH83(0.8m)			Natural. Orange-yellow mottled. Silty CLAY. Moderately stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH82

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct push Tube

COORDINATES 34°42.834' S 149°41.690' E
SURFACE ELEVATION 675m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH82(0.2m) ST-01-1533-BH82-ASB(0.2m)	Y		Topsoil. Silty CLAY. Organic. Dark to light brown. Moist. Moderately stiff.	
0.5	ST-01-1533-BH82(0.7m)			Natural. Silty CLAY. Yellow-grey mottled. Moderately stiff. Moist.	
1	ST-01-1533-BH82(1.2m)			Natural. Silty CLAY. Grey-brown mottled. Loose. Dry.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH83

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.806' S 149°41.641' E
SURFACE ELEVATION 676m AHD
LOGGED BY Shiladitya Mazumdar
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH83(0.2m) ST-01-1533-BH83-ASB(0.2m)	Y		Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff.	
0.5	ST-01-1533-BH83(0.5m)			Natural. Orange-yellow mottled. Silty CLAY. Moderately stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH84

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.844' S 149°41.581' E
SURFACE ELEVATION 269m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH84(0.1m) ST-01-1533-BH84-ASB(0.2m)	Y		Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff.	
0.5	ST-01-1533-BH84(0.7m)			Natural. Silty CLAY. Red-brown mottled. Slightly stiff. Moist.	
1					
1.13				Termination Depth at:1.13m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH85

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.883' S 149°41.541' E
SURFACE ELEVATION 676m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH85(0.2m) ST-01-1533-BH85-ASB(0.2m)	Y		Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff.	
				Natural. Silty CLAY. Red-brown mottled. Slightly stiff. Moist.	
0.5	ST-01-1533-BH85(0.5m)				
				Natural. Clayey SILT. Grey-Brown mottled. Loose. Dry.	
1	ST-01-1533-BH85(1.1m)				
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH87

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.858' S 149°41.656' E
SURFACE ELEVATION 674m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH87(0.2m) ST-01-1533-BH87-ASB(0.2m)	Y		Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff.	
0.5	ST-01-1533-BH87(0.8m)			Natural. Silty CLAY. Red-brown mottled. Slightly stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH88

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.876' S 149°41.621' E
SURFACE ELEVATION 675m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH88(0.2m) ST-01-1533-BH88-ASB(0.2m)	Y		Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff.	
0.5	ST-01-1533-BH88(0.8m)			Natural. Silty CLAY. Red-brown mottled. Slightly stiff. Moist.	
1					
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH89

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.951' S 149°41.636' E
SURFACE ELEVATION 677m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH89(0.2m) ST-01-1533-BH89-ASB(0.2m)	Y		Topsoil. Silty CLAY. Organic. Dark brown. Gravely. Moist. Moderately stiff.	
0.5	ST-01-1533-BH89(0.7m)			Natural. Silty CLAY. Red-Yellow mottled. Slightly stiff. Moist.	
1	ST-01-1533-BH89(1.1m)			Natural. Silty CLAY. Grey-brown mottled. Slightly Loose. Gravely. Dry.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH90

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.880' S 149°41.728' E
SURFACE ELEVATION 672m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH90(0.2m) ST-01-1533-BH90-ASB(0.2m)	Y		Topsoil. Clayey SILT. Organic. Dark to light brown. Moist. Moderately stiff.	
				Natural. Silty CLAY. Yellow-red-grey mottled. Moderately stiff. Moist.	
0.5	ST-01-1533-BH90(0.5m)				
				Silty CLAY. Grey-yellow mottled. Slightly loose. Dry.	
	ST-01-1533-BH90(0.9m)				
1				Termination Depth at:1.07m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH91

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.901' S 149°41.689' E
SURFACE ELEVATION 673m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH91(0.2m) ST-01-1533-BH91-ASB(0.2m)	Y		Topsoil. Silty CLAY. Organic. Dark brown. Moist. Moderately stiff. Some Gravels.	
0.5	ST-01-1533-BH91(0.8m)			Natural. Silty CLAY. Yellow-brown mottled. Moderately stiff. Moist.	
1	ST-01-1533-BH91(1m)				
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH92

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 9/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.941' S 149°41.691' E
SURFACE ELEVATION 674m AHD
LOGGED BY Shiladitya Mazumdar
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH92(0.2m) ST-01-1533-BH92-ASB(0.2m)	Y		Topsoil. Clayey SILT. Organic. Roots. Dark brown. Moist. Moderately stiff.	
0.5	ST-01-1533-BH92(0.8m)			Natural. Silty CLAY. Orange-red mottled. Moderately stiff. Moist.	
1	ST-01-1533-BH92(1.1m)			Silty CLAY. Grey-brown mottled. Slightly stiff. Dry.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH93

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.928' S 149°41.746' E
SURFACE ELEVATION 671m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH93(0.2m) ST-01-1533-BH93-ASB(0.2m	Y		Topsoil. Silty CLAY with Gravels. Dark brown. Organic. Moderately stiff. Moist.	
0.5				Natural. Silty CLAY. Yellow-grey mottled. Moderately Stiff. Moist.	
1	ST-01-1533-BH93(0.6m)			Silty CLAY with gravels. Grey-yellow mottled. Slightly stiff. Dry.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH94

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.906' S 149°41.797' E
SURFACE ELEVATION 671m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH94(0.2m) ST-01-1533-BH94-ASB(0.2m ST-01-1533-BH94(0.5)	Y		Topsoil. Silty CLAY with Gravels. Dark brown. Organic. Moderately stiff. Moist.	
0.5				Natural. Clayey SILT. Yellow-grey mottled. Moderately Stiff. Moist.	
1				Termination Depth at:0.84m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH95

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.975' S 149°41.815' E
SURFACE ELEVATION 671m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH95(0.2m) ST-01-1533-BH95-ASB	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	
0.5	ST-01-1533-BH95(0.6m)			Natural. Silty CLAY. Red-yellow-brown mottled. Moderately stiff. Moist.	
1	ST-01-1533-BH95(1.1m)			Clayey SILT with gravels. Brown-red mottled. Slightly stiff. Dry.	
1.26				Termination Depth at:1.26m BGL	
1.5					
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH96

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.917' S 149°41.834' E
SURFACE ELEVATION 671m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH96(0.2m) ST-01-1533-BH96-ASB(0.2m	Y		Topsoil. Silty CLAY with Gravels. Dark brown. Organic. Moderately stiff. Moist.	
0.5	ST-01-1533-BH96(0.7m)			Natural. Silty CLAY. Red-brown mottled. Moderately Stiff. Moist.	
1	ST-01-1533-BH96(1.2m)			Natural. Silty CLAY. Yellow-grey mottled. Slightly stiff. Dry.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

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BORE LOGS BH97

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.950' S 149°41.865' E
SURFACE ELEVATION 671m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH97(0.2m) ST-01-1533-BH97-ASB(0.2m	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	Roots
0.5	ST-01-1533-BH97(0.8m)			Natural. Silty CLAY. Orange-grey mottled. Moderately stiff. Moist.	
1					
1.5				Termination Depth at:1.3m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

BORE LOGS BH98

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW 2022

SAMPLING DATE 8/11/2022
SAMPLING CONTRACTOR Numac
OPERATOR Tony
SAMPLING EQUIPMENT Direct Push Tube

COORDINATES 34°42.989' S 149°41.913' E
SURFACE ELEVATION 673m AHD
LOGGED BY Sirish Baniya
CHECKED BY Kannan Kaliappan

COMMENTS

Depth (m)	Samples	Is Analysed?	Graphic Log	Material Description	Additional Observations
0	ST-01-1533-BH98(0.2m)	Y		Topsoil. Silty CLAY. Dark brown. Organic. Moderately stiff. Moist.	Roots
	ST-01-1533-BH98-ASB(0.2m				
	ST-01-1533-BH98(0.5m)			Natural. Silty CLAY. Yellow-grey mottled. Moderately stiff. Moist.	
0.5					
1	ST-01-1533-BH98(1.1m)			Natural. Clayey SILT. Gravely.Brown-red. Slightly stiff. Dry.	
1.5				Termination Depth at:1.5m BGL	
2					
2.5					
3					
3.5					
4					
4.5					
5					
5.5					

K2 CONSULTING GROUP

GROUNDWATER LOG GW4

PROJECT NUMBER ST-01-1533
PROJECT NAME Detailed Site Investigation
CLIENT Alimaco Pty Ltd
ADDRESS 515 Crookwell Road, Kingsdale NSW
DRILLER NUMAC

DRILLING DATE 10/11/2022
TOTAL DEPTH 6 m BGL
DIAMETER 50 mm
CASING uPVC
SCREEN uPVC Factory Slotted

COORDINATES 34° 42.729'S, 149° 42.180'E
COORD SYS Degrees, Decimal minutes
SURFACE ELEVATION 673 m AHD
WELL TOC 6.5 m TOC

COMMENTS Samples collected on 18.11.2022, 25.11.2022 and 10.01.2022

LOGGED BY SB
CHECKED BY KK

Samples	Analysed	Water strike m BGL	Depth (m) BGL	Graphic Log	Material Description	Well Diagram	Additional Observations
ST-01-1533-GW4 ST-01-1533-GW4(ST-01-1533-GW4(	Y	▽	0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5		Topsoil. Silty CLAY. Organic. Moist. Dark Brown.Loose. NATURAL. SILTY CLAY: Moist. Stiff. Dark to light brown. NATURAL. Clayey silt. Loose. Slightly moist. Grey. NATURAL. Clayey silt. Loose. Wet. Grey. Termination Depth at: 6.0	Bentonite Filter pack	

Disclaimer This bore log is intended for environmental not geotechnical purposes.

K2 CONSULTING GROUP

GROUNDWATER LOG GW5

PROJECT NUMBER ST-01-1533	**DRILLING DATE** 10/11/2022	**COORDINATES** 34° 42.753'S, 149° 42.211'E
PROJECT NAME Detailed Site Investigation	**TOTAL DEPTH** 8 m BGL	**COORD SYS** Degrees, Decimal minutes
CLIENT Alimaco Pty Ltd	**DIAMETER** 50 mm	
ADDRESS 515 Crookwell Road, Kingsdale NSW	**CASING** uPVC	**SURFACE ELEVATION** 674 m AHD
DRILLER NUMAC	**SCREEN** uPVC Factory Slotted	**WELL TOC** 6 m TOC

COMMENTS Samples collected on 18.11.2022, 25.11.2022 and 10.01.2022

LOGGED BY SB
CHECKED BY KK

Samples	Analysed	Water strike m BGL	Depth (m) BGL	Graphic Log	Material Description	Well Diagram	Additional Observations
ST-01-1533-GW5 ST-01-1533-GW5(ST-01-1533-GW5)	Y	▽	0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7 7.5		Topsoil. Silty CLAY. Organic. Moist. Dark Brown.Loose. NATURAL. SILTY CLAY: Moist. Stiff. Dark to light brown. NATURAL. Clayey silt. Loose. Slightly moist. Grey. NATURAL. Clayey silt. Loose. Wet. Grey. Termination Depth at: 8.0	Bentonite Filter pack collapsed	

Disclaimer This bore log is intended for environmental not geotechnical purposes.

Appendix IV

Data Quality Objectives – Quality Assurance/Quality Control

Data Quality Objectives

The Data Quality Objectives (DQO) process is a systematic planning tool based on the scientific method for establishing criteria for data quality and for developing data collection designs.

The DQO process is designed to clarify the study objectives, define the appropriate type of data and specify tolerable levels of potential decision errors.

The DQO is a seven-step planning process that is defined by the US EPA and the NSW EPA to facilitate the development of qualitative and quantitative parameters that enables to identify and collect sufficient high-quality data required for informed decision-making to meet the objectives of the investigation and ensure high-confidence of data is achieved in the investigation process.

The seven-step DQO process adopted for this DSI can be summarised as:

- Step 1: State the Problem – concisely describe the problem to be studied. Review prior studies and existing information to gain a sufficient understanding to define the problem.
- Step 2: Identify the Decision – identify what questions the study will attempt to resolve, and what actions may result.
- Step 3: Identify the Inputs to the Decision – identify the information that needs to be obtained and the measurements that need to be taken to resolve the decision statement.
- Step 4: Define the Study Boundaries – specify the periods and spatial area to which decisions will apply. Determine when and where data should be collected.
- Step 5: Develop a Decision Rule – define the statistical parameter of interest, specify the action level, and integrate the previous DQO outputs into a single statement that describes the logical basis for choosing among alternative actions.
- Step 6: Specify Tolerable Limits on Decision Errors – define the decision maker's tolerable decision error rates based on a consideration of the consequences of making an incorrect decision.
- Step 7: Optimise the Design –evaluate information from the previous steps and generate alternative data collection designs. Choose the most resource-effective design that meets all DQO.

Table 16. Data Quality Objectives

Step	Detail
State the problem	Determine the nature and lateral/vertical extent of any contamination in the soils, surface water and groundwater onsite from any past and present activities undertaken on site. Based on a previous limited environmental site investigation undertaken onsite (K2 ESI August 2022), Total Chromium was recorded in soil samples. Hence, a Detailed Site Investigation was recommended to assess any potential contamination of the site from Chromium in soils, groundwater and surface water, in addition to other CoPCs identified in **Section 10**.
Define the Study Boundary	• The investigation was undertaken across the site that is proposed to be developed Please refer to **Figure 5** in **Appendix I** for Areas of Environmental Concern (AECs 1 to 5). • The horizontal boundary of the investigation included the subject areas comprising AEC1, AEC2, AEC3, AEC4, and AEC5. • Soil samples were collected across the proposed development area at various depths from the topsoil layer (0.0-0.2m BGL) followed by the natural layer starting from 0.3 m BGL. The depth of the investigation was limited to 1.5 m BGL as natural soils were expected beyond this depth and this depth was deemed sufficient. • Surface water samples were collected from two (2) surface water dams. • Two (2) groundwater wells were installed and developed, and samples were collected from each monitoring well during three (3) groundwater monitoring events.
Develop a decision rule	If the concentration of the CoPCs in the assessed media is reported to be below the relevant adopted site acceptance criteria and/or LORs, then the area of investigation will be deemed suitable, and no management or remediation options will be proposed for its current or proposed land use. If the concentration of one (1) or more CoPCs exceeds the site acceptance criteria, then further investigation will be required to delineate the vertical and horizontal extent of contamination, and remediation or management methods may be required. The following s statistical criteria were adopted during the investigation: • 95% upper confidence limit of the average concentration of each analyte must be below the site acceptance criteria; • No single analyte concentration shall exceed 250% of the adopted criteria; • The standard deviation of the results must be less than 50% of the adopted criteria.
Specify Tolerable Limits on Decision Errors	Precision is measured using the standard deviation (SD) or Relative Percent Difference (%RPD). Replicate data for field duplicates for organics is expected to be as follows: • RPD criteria of 50% or less, for concentrations ≥10 times LOR. • No limit on RPD criteria - if the primary and duplicate concentration is < 10 times LOR; and • If both sample values are less than the LOR, the RPD is not calculated. Replicate data for field duplicates for Inorganics is expected to be as follows: • RPD criteria of 30% or less, for concentrations ≥10 times LOR. • No limit on RPD criteria - if the primary and duplicate concentration is <10 times LOR; and • If both sample values are less than the LOR, the RPD is not calculated.

Step	Detail
	Where acceptable limits for field duplicates were not met, a discussion on low-biased error will be provided.
Optimise the Design	The soil samples were collected from various depths in the topsoil or fill zone (in some boreholes), and from natural soils below. Soils were also collected when there is a change in the soil profile or apparent contamination is observed.

Field Procedures

The quality and appropriateness of field procedures were assessed by the following QA/QC measures.

Table 17. Field QA/QC Assessment

Measure	Outcome	Comment
Calibration of field equipment	Complete	Equipment (Water Quality meter) was calibrated prior to each sampling event by the equipment supplier/servicer. See **Appendix VIII** for the calibration certificates. No calibration certificates were available for the peristaltic pump and the water interface meters.
Replicate Frequency	Pass	Inter and intra-laboratory duplicates were collected and analysed at the following frequencies: Soil: • 1 set of replicates per 20 primary samples – all analytes (1/20 or 5%) A total of eighty-eight (88) samples were subjected to laboratory analysis during the DSI. A total of four (4) inter-lab and intra-lab duplicate samples were collected. A total of twelve (12) samples were subjected to laboratory analysis during the PSI. A total of one (1) inter-lab and intra-lab duplicate sample was collected. One (1) set of inter-lab/intra-lab sample jars was damaged during the soil sampling event, however, this DSI also includes the findings of the PSI (2022), a total of one hundred (100) samples were subjected to laboratory analysis and five (5) inter-lab and intra-lab duplicate samples were collected. These frequencies meet the minimum required rate of 1/20 or 5%, indicating acceptable rates of replicate frequency.
Decontamination / Cross Contamination	Pass	All reusable equipment (hand auger, where required) was decontaminated between sampling locations. Distilled water was supplied by the primary laboratory for decontamination. Dedicated nitrile gloves were worn for each sample location. Rinsate samples reported concentrations of all analytes < LOR. Eighty-three (83) of the boreholes were drilled using Push Tubes. A new push tube was used for each borehole and soil samples were collected after the push tubes were cut open. Hence, decontamination for the push tubes was not required.
Sample Handling and Preservation	Complete	Following collection, all soil samples were immediately placed into an appropriate laboratory-supplied sample container and stored on ice in an esky. Samples were kept chilled and transported to the laboratory under Chain of Custody (CoC) documentation. Details of the sample transportation and handling can be found on the CoC and Sample Receipt Notification (SRN) documentation (see **Appendix VII** – Laboratory reports).
Chain of custody	Complete	Samples were transported to the laboratory under a completed CoC. Information on the CoC included: staff details, sample identifier, sample matrix, collection date, analyses to be performed, sample release date and sample received to date. CoCs are provided in **Appendix VII** along with all associated laboratory reports.

Measure	Outcome	Comment
Trip Blank	Pass	One (1) Trip blank and one (1) Trip spike was placed in the Esky during transportation to the lab to assess for potential cross-contamination. All samples were collected within laboratory-supplied sample containers and stored and transported within an ice-chilled Esky to prevent the loss of volatile compounds.

Analytical QA/QC

The following table presents a review of relevant laboratory QA/QC procedures and measures, to enable an assessment of overall data quality. The detailed QA/QC reports from the primary and secondary laboratories are provided in **Appendix VII** – Laboratory reports.

Table 18. Summary of laboratory

Measure	Outcome	Comment
Accreditation	Pass	Primary laboratory: SGS Australia Pty Ltd Secondary Laboratory: Eurofins|MGT (Eurofins) Both laboratories are NATA accredited. Refer to www. nata.com.au for their respective accreditation numbers
Holding times	Pass	Samples were analysed and extracted within the recommended holding times
Intra-laboratory Duplicate	Pass	The following intra-laboratory Field Duplicate samples were submitted to the primary laboratory (SGS) for analysis: • Soil field duplicate ST-01-1533-BR1; Primary ST-01-1533-BH16 (0.2m) • Soil field duplicate ST-01-1533-BR2; Primary ST-01-1533-BH97 (0.2m) • Soil field duplicate ST-01-1533-BR3; Primary ST-01-1533-BH92 (0.2m) • Soil field duplicate ST-01-1533-BR4; Primary ST-01-1533-BH54 (0.2m) Field duplicate results are presented in **Appendix VI** – laboratory summary. RPD exceedances were noted for Copper, Lead ad Nickel in the intra-lab duplicate sample (sample ID: ST-01-1533-BR1), which can be attributed to the heterogeneity of the soil samples.
Inter-laboratory Duplicate	Pass	The following inter-laboratory Field Split (Triplicate) samples were submitted to the secondary laboratory (Eurofins) for analysis. • Soil field duplicate ST-01-1533-SR1; Primary ST-01-1533-BH16 (0.2m) • Soil field duplicate ST-01-1533-BR2; Primary ST-01-1533-BH97 (0.2m) • Soil field duplicate ST-01-1533-BR3; Primary ST-01-1533-BH92 (0.2m) • Soil field duplicate ST-01-1533-BR4; Primary ST-01-1533-BH54 (0.2m) Field duplicate results are presented in **Appendix VI** – laboratory summary. RPD exceedances were noted for Total Chromium and Lead in the intra-lab duplicate sample (sample ID: ST-01-1533-SR1), which can be attributed to the heterogeneity of the soil samples.
Internal laboratory duplicate	Pass	Internal laboratory duplicates provide information regarding method precision and sample heterogeneity. Several samples did not meet the recovery criteria and as explained in the laboratory report, this can be contributed to sample heterogeneity and matrix interference. Refer to **Appendix VII** for laboratory reports.
Laboratory method blank	Pass	Laboratory method blanks indicated that key contaminants of interest were not detectable at levels above the relevant standard LORs.
Percent Recoveries of	Pass	The reported laboratory spikes were within acceptable ranges.

Measure	Outcome	Comment
Spikes and Surrogates		The laboratory surrogate results were within the acceptable ranges with the exception of one surface water sample (sample ID: ST-01-1533-WD1) and one soil sample (sample ID: ST-01-1533-BH28). At least 2 out of the 3 surrogate compounds were recovered by the laboratory within acceptable recovery ranges in the sample ST-01-1533-BH28(0.4m). Recovery failed due to matrix interference in the sample ST-01-1533-WD1. By considering all field and laboratory quality control data, the two exceptions of surrogate recovery rate do not affect the quality of the results and are hence considered acceptable.

Data Quality Summary

A key objective of the data quality assessment is to provide a consistent approach to the evaluation of whether the DQOs of the project have been achieved. The following table summarises the outcomes of the DQOs and associated data quality assessment outcomes.

Table 19. Data Quality Assessment Summary

DQO	Evaluation
Documentation Completeness	CoC forms, calibration certificates field forms and laboratory analytical reports were complete and appropriate
Data Completeness	All samples were received by the laboratory and analytical results were fully reported, including laboratory QA/QC
Data Comparability	Industry-standard operating procedures and best practices were followed during sampling. Consistent field conditions and similarly trained staff were used during sampling. Consistent use of the primary laboratory for the current analytical assessment
Data Representativeness	The frequency of laboratory blanks was acceptable, and the results were within specified ranges. Some recovery rates were outside the acceptable range however as indicated by the laboratory, the exceedances were caused by sample heterogeneity and matrix interference. Based on the concentration of analytes in the primary samples presented and the soil matrix observed onsite it is considered that the data obtained is representative of the site conditions and is considered sufficient.
Precision	No unexpected anomalies were observed, and duplicate data was generally within acceptable ranges.

In summary, the majority of the QA/QC measures conformed with relevant procedures, methodologies, and acceptance criteria. The data was considered to be representative of site conditions and chemical concentrations in the environmental media sampled and are therefore suitable for use in this DSI.

Appendix V

RPD Comparison

Analytes		LOR (mg/kg)	(ST-01-1533-BH16)[1]	(ST-01-1533-BR1)[1]	RPD1 %	DQI met	(ST-01-1533-BH97)[2]	(ST-01-1533-BR2)[2]	RPD2 %	DQI met	(ST-01-1533-BH92)[3]	(ST-01-1533-BR3)[3]	RPD3 %	DQI met	(ST-01-1533-BH54)[4]	(ST-01-1533-BR4)[4]	RPD4 %	DQI met
Metals and Metalloids	Arsenic	1	3	4	29	Yes	5	5	NA	Yes	6	2	100	Yes	2	5	86	Yes
	Cadmium	0.3	<0.3	<0.3	NA	Yes	<0.3	<0.3	NA	Yes	<0.3	<0.3	NA	Yes	<0.3	<0.3	NA	Yes
	Total Chromium	0.5	110	100	10	Yes	59	48	21	Yes	42	110	89	No	110	35	103	No
	Chromium VI	0.5	<0.5	NA	NA	Yes	NA	NA	NA	Yes	NA	NA	NA	Yes	<0.5	NA	NA	Yes
	Copper	0.5	31	19	48	**No**	2.4	2.5	4	Yes	3	38	171	Yes	35	3.3	166	Yes
	Lead	1	11	20	58	**No**	27	2.7	164	Yes	18	9	67	Yes	8	18	77	Yes
	Mercury (inorganic)	0.05	<0.05	<0.05	NA	Yes	<0.05	<0.05	NA	Yes	<0.05	<0.05	NA	Yes	<0.05	<0.05	NA	Yes
	Nickel	0.5	62	38	48	**No**	2.2	2.2	NA	Yes	2.7	83	187	Yes	76	3	185	Yes
	Zinc	2	22	28	24	Yes	8.1	7.9	2	Yes	9.9	42	124	Yes	40	11	114	Yes
TRH	TRH C6 - C9	20	<20	<20	NA	Yes	<20	<20	NA	Yes	<20	<20	NA	Yes	<20	<20	NA	Yes
	TRH C10-C14	20	<20	<20	NA	Yes	<20	<20	NA	Yes	<20	<20	NA	Yes	<20	<20	NA	Yes
	F1 ((C6-C10)-BTEX)	25	<25	<25	NA	Yes	<25	<25	NA	Yes	<25	<25	NA	Yes	<25	<25	NA	Yes
	F2 (>C10-C16 less Naphthalene)	25	<25	<25	NA	Yes	<25	<25	NA	Yes	<25	<25	NA	Yes	<25	<25	NA	Yes
	F3 (>C16-C34)	90	<90	<90	NA	Yes	<90	<90	NA	Yes	<90	<90	NA	Yes	<90	<90	NA	Yes
	F4 (>C34-C40)	120	<120	<120	NA	Yes	<120	<120	NA	Yes	<120	<120	NA	Yes	<120	<120	NA	Yes
BTEX	Benzene	0.1	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Toluene	0.1	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Ethylbenzene	0.1	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Total Xylenes	0.3	<0.3	<0.3	NA	Yes	<0.3	<0.3	NA	Yes	<0.3	<0.3	NA	Yes	<0.3	<0.3	NA	Yes
PAH	Acenaphthene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Acenaphthylene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Anthracene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Benz(a)anthracene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Benzo(a)pyrene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Benzo(b,j)fluoranthene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Benzo(g,h,i)perylene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Benzo(k)fluoranthene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Chrysene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Dibenz(a,h)anthracene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Fluoranthene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Fluorene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Indeno(1,2,3-c,d)pyrene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Naphthalene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Phenanthrene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Pyrene	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	PAH (Total)	0.80	0.8	0.8	NA	Yes	Yes	Yes	NA	Yes	Yes	Yes	NA	Yes	Yes	Yes	NA	Yes
	Carcinogenic PAHs as B(a)P TEQ	0.20	<0.2	<0.2	NA	Yes	<0.2	<0.2	NA	Yes	<0.2	<0.2	NA	Yes	<0.2	<0.2	NA	Yes
OCP	DDT+DDE+DDD	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	Yes	Yes	NA	Yes	Yes	Yes	NA	Yes
	Aldrin & Dieldrin	0.10	0.1	0.1	NA	Yes	Yes	Yes	NA	Yes	Yes	Yes	NA	Yes	Yes	Yes	NA	Yes
	Total Chlordane	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Total Endosulfan	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Endrin	0.20	<0.2	<0.2	NA	Yes	<0.2	<0.2	NA	Yes	<0.2	<0.2	NA	Yes	<0.2	<0.2	NA	Yes
	Heptachlor	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Hexachlorobenzene ne	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
	Methoxychlor	0.10	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes	<0.1	<0.1	NA	Yes
OPP	Chlorpyriphos	0.20	<0.2	<0.2	NA	Yes	<0.2	<0.2	NA	Yes	<0.2	<0.2	NA	Yes	<0.2	<0.2	NA	Yes

Note:
Yellow
cells contain RPD calculations greater than 30% for inorganic analytes. However,this is not considered to be significant because
Overall, the intra-laboratory replicate comparisons indicate that the sampling techniques were generally consistent and repeatable.

Appendix VI

Laboratory Results - Summary

K2 CONSULTING GROUP

				Metals and Metalloids									TRH						BTEX			
				Arsenic	Cadmium	Total Chromium	Chromium VI	Copper	Lead	Mercury (inorganic)	Nickel	Zinc	TRH C6 - C9	TRH C10-C14	F1 ((C6-C10)- BTEX)	F2 (>C10-C16 less Naphthalene)	F3 (>C16-C34)	F4 (>C34-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
	Sampling strategy		LOR	1	0.3	0.5	0.5	0.5	1	0.05	0.5	2	20	20	25	25	90	120	0.1	0.1	0.1	0.3
Sample ID		Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HIL A (Residential) (NEPM schedule-b1)				100	20	-	100	6,000	300	40	400	7,400	-	-	-	-	-	-	-	-	-	-
HSL A (Low-Density Residential) (NEPM schedule-b1)		0- <1m	Clay	-	-	-	-	-	-	-	-	-	-	-	50	280	-	-	0.7	480	NL	110
Management Limit (NEPM schedule-b1) (Fine soils)				-	-	-	-	-	-	-	-	-	-	-	800	1000	3,500	10,000	-	-	-	-
HSL (Direct soil contact) (NEPM schedule-b1) (Fine soils)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	14000	4500	12000
EILs (NEPM schedule-b1) - Site specific				100	-	-	-	210	1100	-	180	500	-	-	-	-	-	-	-	-	-	-
ESLs (NEPM schedule-b1)				-	-	-	-	-	-	-	-	-	-	-	180	120	1,300	5,600	65	105	125	45
ST-01-1492-BH01	Targeted	0.2	27.06.2022	2.2	<0.4	190	NA	27	9.1	<0.1	100	48	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH01	Targeted	0.7	27.06.2022	2.2	<0.4	150	NA	21	7.8	<0.1	80	43	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH01	Targeted	1	27.06.2022	<2	<0.4	250	NA	23	<5	<0.1	120	68	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH02	Targeted	0.2	27.06.2022	4.3	<0.4	81	NA	17	22	<0.1	30	49	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH02	Targeted	0.4	27.06.2022	4.7	<0.4	110	NA	17	22	<0.1	31	32	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH03	Targeted	0.2	27.06.2022	12	<0.4	140	NA	19	28	<0.1	28	39	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH03	Targeted	0.5	27.06.2022	12	<0.4	150	NA	29	25	<0.1	50	38	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH04	Targeted	0.2	27.06.2022	<2	<0.4	170	NA	54	13	<0.1	120	180	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH04	Targeted	0.4	27.06.2022	<2	<0.4	110	NA	38	<5	<0.1	120	63	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH07	Targeted	0.2	27.06.2022	7.1	<0.4	76	NA	24	16	<0.1	30	34	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH07	Targeted	0.4	27.06.2022	5.3	<0.4	71	NA	23	15	<0.1	35	38	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH08	Targeted	0.2	27.06.2022	30	<0.4	160	NA	14	31	<0.1	11	21	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH08	Targeted	0.4	27.06.2022	3.9	<0.4	48	NA	18	13	<0.1	16	32	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH09	Targeted	0.2	27.06.2022	15	<0.4	52	NA	5.1	31	<0.1	6.2	14	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH10	Targeted	0.2	27.06.2022	6.9	<0.4	32	NA	5.7	19	<0.1	<5	31	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH05	Targeted	0.2	27.06.2022	21	<0.4	130	NA	14	34	<0.1	11	130	<20	<20	<20	<50	110	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-BH05	Targeted	0.4	27.06.2022	27	<0.4	190	NA	12	49	<0.1	7.8	59	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-SS01	Targeted	surface sample	27.06.2022	4.7	<0.4	29	NA	23	12	<0.1	5.7	85	<20	<20	<20	<50	110	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1492-SS02	Targeted	surface sample	27.06.2022	10	<0.4	140	NA	38	37	<0.1	62	220	<100	<100	<100	<50	<500	710	<0.5	<0.5	<0.5	<1.5
ST-01-1492-SS03	Targeted	surface sample	27.06.2022	5	<0.4	24	NA	28	9.4	<0.1	16	350	<100	<20	<100	<50	<500	200	<0.5	<0.5	<0.5	<1.5
ST-01-1533-BH11(0.2m)	Systematic	0.2	7.11.2022	4	<0.3	89	NA	5.8	16	<0.05	8.7	7.5	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH12(0.7m)	Systematic	0.7	7.11.2022	1	<0.3	93	<0.5	43	2	<0.05	69	41	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH13(0.2m)	Systematic	0.2	7.11.2022	4	<0.3	140	<0.5	30	14	<0.05	53	30	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH14(0.2m)	Systematic	0.2	7.11.2022	2	<0.3	130	<0.5	30	6	<0.05	89	33	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH15(0.5m)	Systematic	0.5	7.11.2022	2	<0.3	120	<0.5	38	3	<0.05	170	38	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH16(0.2m)	Systematic	0.2	7.11.2022	3	<0.3	110	<0.5	31	11	<0.05	62	22	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH17(0.7m)	Systematic	0.7	7.11.2022	1	<0.3	78	NA	1100	2	<0.05	79	42	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH18(0.2m)	Systematic	0.2	7.11.2022	3	<0.3	91	<0.5	13	12	<0.05	21	13	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH19(0.2m)	Systematic	0.2	7.11.2022	3	<0.3	110	<0.5	46	8	<0.05	85	55	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH20(0.2m)	Systematic	0.2	7.11.2022	10	0.4	75	NA	13	29	<0.05	13	43	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH21(0.5m)	Systematic	0.5	7.11.2022	<1	<0.3	310	<0.5	15	1	<0.05	140	65	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH22(0.2m)	Systematic	0.2	7.11.2022	2	<0.3	95	<0.5	22	11	<0.05	55	31	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH23(0.2m)	Systematic	0.2	7.11.2022	23	<0.3	53	<0.5	72	20	<0.05	27	79	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH24(0.2m)	Systematic	0.2	7.11.2022	3	<0.3	95	<0.5	24	9	<0.05	60	50	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH25(0.2m)	Systematic	0.2	7.11.2022	3	<0.3	92	<0.5	18	10	<0.05	44	50	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH26(surface sample)	Systematic	surface sample	7.11.2022	1	<0.3	21	NA	5	9	<0.05	6.5	24	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH27(0.2m)	Systematic	0.2	10.11.2022	3	<0.3	110	<0.5	34	18	<0.05	68	100	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH28(0.4m)	Systematic	0.4	7.11.2022	2	<0.3	120	<0.5	26	3	<0.05	64	28	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH29(0.5m)	Systematic	0.5	10.11.2022	3	<0.3	64	<0.5	20	13	<0.05	34	30	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH30(0.2m)	Systematic	0.2	9.11.2022	2	<0.3	93	<0.5	27	9	<0.05	48	71	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH31(0.2m)	Systematic	0.2	9.11.2022	<1	<0.3	110	<0.5	27	5	<0.05	62	49	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH32(0.2m)	Systematic	0.2	8.11.2022	7	<0.3	45	<0.5	11	14	<0.05	8.7	10	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH33(0.2m)	Systematic	0.2	8.11.2022	3	<0.3	150	NA	54	5	<0.05	160	52	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH34(0.2m)	Systematic	0.2	8.11.2022	2	<0.3	35	NA	2.2	12	<0.05	2.6	5.1	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH35(0.2m)	Systematic	0.2	7.11.200	3	<0.3	47	NA	3.5	13	<0.05	3.4	9.4	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH36(0.6m)	Systematic	0.6	7.11.2022	4	<0.3	46	NA	7.9	27	<0.05	4.7	11	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH37(0.6m)	Systematic	0.6	9.11.2022	4	<0.3	40	NA	10	19	<0.05	6.3	11	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH38(0.2m)	Systematic	0.2	9.11.2022	6	<0.3	39	<0.5	13	17	<0.05	8.1	80	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH39(0.2m)	Systematic	0.2	9.11.2022	3	<0.3	38	NA	11	14	<0.05	7.8	12	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH40(0.2m)	Judgemental	0.2	7.11.2022	<1	<0.3	140	<0.5	23	3	<0.05	95	42	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH41(0.5m)	Judgemental	0.5	7.11.2022	2	<0.3	110	<0.5	34	6	<0.05	110	34	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH42(0.2m)	Judgemental	0.2	7.11.2022	2	<0.3	71	NA	18	8	<0.05	33	37	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH43(0.2m)	Judgemental	0.2	9.11.2022	2	<0.3	95	<0.5	28	10	<0.05	81	33	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH44(0.2m)	Judgemental	0.2	9.11.2022	3	<0.3	52	NA	20	12	<0.05	38	28	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH45(0.2m)	Judgemental	0.2	9.11.2022	2	<0.3	80	<0.5	19	9	<0.05	40	28	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH46(0.2m)	Judgemental	0.2	9.11.2022	2	<0.3	84	<0.5	20	12	<0.05	30	52	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH47(0.7m)	Judgemental	0.7	8.11.2022	3	<0.3	15	NA	5.6	10	<0.05	4	9	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH48(0.1m)	Judgemental	0.1	8.11.2022	3	<0.3	33	NA	1.9	12	<0.05	1.9	4.2	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH49(0.5m)	Judgemental	0.5	8.11.2022	3	<0.3	5	NA	2	7	0.06	1.1	8.6	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH50(0.2m)	Judgemental	0.2	8.11.2022	3	<0.3	16	NA	2	15	<0.05	1.4	6.3	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH51(0.2m)	Judgemental	0.2	8.11.2022	6	<0.3	91	<0.5	3.7	25	<0.05	4.9	12	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH52(0.7m)	Judgemental	0.7	8.11.2022	5	<0.3	20	NA	10	15	<0.05	6.1	11	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH53(0.2m)	Judgemental	0.2	8.11.2022	4	<0.3	13	NA	5.3	16	<0.05	2.4	12	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH54(0.2m)	Judgemental	0.2	9.11.2022	2	<0.3	110	<0.5	35	8	<0.05	76	40	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH55(0.7m)	Judgemental	0.7	9.11.2022	<1	<0.3	37	<0.5	19	<1	<0.05	97	39	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3

K2 CONSULTING GROUP

				Metals and Metalloids										TRH						BTEX			
				Arsenic	Cadmium	Total Chromium	Chromium VI	Copper	Lead	Mercury (inorganic)	Nickel	Zinc	TRH C6 - C9	TRH C10-C14	F1 ((C6-C10)- BTEX)	F2 (>C10-C16 less Naphthalene)	F3 (>C16-C34)	F4 (>C34-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
	Sampling strategy		LOR	1	0.3	0.5	0.5	0.5	1	0.05	0.5	2	20	20	25	25	90	120	0.1	0.1	0.1	0.3
Sample ID		Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HIL A (Residential) (NEPM schedule-b1)				100	20	-	100	6,000	300	40	400	7,400	-	-	-	-	-	-	-	-	-	-
HSL A (Low-Density Residential) (NEPM schedule-b1)		0- <1m	Clay	-	-	-	-	-	-	-	-	-	-	-	50	280	-	-	0.7	480	NL	110
Management Limit (NEPM schedule-b1) (Fine soils)				-	-	-	-	-	-	-	-	-	-	-	800	1000	3,500	10,000	-	-	-	-
HSL (Direct soil contact) (NEPM schedule-b1) (Fine soils)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	14000	4500	12000
EILs (NEPM schedule-b1) - Site specific				100	-	-	-	210	1100	-	180	500	-	-	-	-	-	-	-	-	-	-
ESLs (NEPM schedule-b1)				-	-	-	-	-	-	-	-	-	-	-	180	120	1,300	5,600	65	105	125	45
ST-01-1533-BH56(0.2m)	Judgemental	0.2	9.11.2022	2	<0.3	61	NA	21	8	<0.05	43	36	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH57(0.2m)	Judgemental	0.2	9.11.2022	1	<0.3	130	<0.5	28	7	<0.05	76	46	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH58(0.2m)	Judgemental	0.2	9.11.2022	3	<0.3	110	<0.5	18	11	<0.05	55	27	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH59(0.2m)	Judgemental	0.2	9.11.2022	1	<0.3	250	<0.5	56	6	<0.05	210	56	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH60(0.2m)	Judgemental	0.2	9.11.2022	<1	<0.3	170	<0.5	26	2	<0.05	91	40	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH61(0.5m)	Judgemental	0.5	9.11.2022	1	<0.3	85	0.5	30	3	<0.05	82	39	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH62(0.2m)	Judgemental	0.2	9.11.2022	1	<0.3	140	<0.5	36	5	<0.05	100	49	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH63(0.2m)	Judgemental	0.2	8.11.2022	4	<0.3	100	<0.5	6	17	<0.05	7.6	13	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH64(0.2m)	Judgemental	0.2	8.11.2022	13	<0.3	170	<0.5	6	39	0.05	8.3	16	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH65(0.9m)	Judgemental	0.9	8.11.2022	24	<0.3	59	NA	28	20	<0.05	42	48	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH66(0.2m)	Judgemental	0.2	8.11.2022	4	<0.3	66	NA	3	17	<0.05	3.7	8.4	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH67(0.2m)	Judgemental	0.2	8.11.2022	3	<0.3	87	<0.5	28	8	<0.05	68	25	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH68(0.6m)	Judgemental	0.6	8.11.2022	4	<0.3	130	<0.5	24	3	<0.05	71	32	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH69(0.2m)	Judgemental	0.2	8.11.2022	4	<0.3	30	NA	5.9	14	<0.05	2.8	22	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH70(0.2m)	Judgemental	0.2	8.11.2022	2	<0.3	21	NA	2.4	14	<0.05	1.5	6	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH71(0.2m)	Judgemental	0.2	8.11.2022	5	<0.3	59	<0.5	3.5	34	<0.05	3	6.6	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH72(0.8m)	Judgemental	0.8	8.11.2022	2	<0.3	18	NA	10	13	<0.05	7	9.1	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH73(0.2m)	Judgemental	0.2	8.11.2022	3	<0.3	48	NA	3.4	18	<0.05	2.5	5.1	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH74(0.2m)	Judgemental	0.2	8.11.2022	9	<0.3	64	NA	1.3	36	<0.05	2.5	9.7	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH75(1.0m)	Judgemental	1	8.11.2022	6	<0.3	3.9	<0.5	4.8	26	<0.05	37	41	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH76(0.2m)	Judgemental	0.2	8.11.2022	6	<0.3	52	NA	5.2	15	<0.05	3	17	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH77(0.2m)	Judgemental	0.2	9.11.2022	5	<0.3	37	NA	6	17	<0.05	3.8	10	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH78(0.2m)	Judgemental	0.2	9.11.2022	4	<0.3	49	<0.5	3.6	18	<0.05	2	6.9	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH79(0.2m)	Judgemental	0.2	9.11.2022	7	<0.3	29	NA	3.6	16	<0.05	2.5	13	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH80(0.6m)	Judgemental	0.6	9.11.2022	5	<0.3	41	NA	20	15	<0.05	12	14	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH81(0.8m)	Judgemental	0.8	9.11.2022	4	<0.3	28	NA	23	16	0.09	12	21	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH82(0.2m)	Judgemental	0.2	9.11.2022	4	<0.3	60	1.3	6	14	<0.05	3.5	9.2	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH83(0.2m)	Judgemental	0.2	9.11.2022	5	<0.3	67	NA	10	21	<0.05	7.1	12	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH84(0.1m)	Judgemental	0.1	9.11.2022	6	<0.3	110	<0.5	6.9	30	<0.05	4.9	18	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH85(0.2m)	Judgemental	0.2	9.11.2022	4	<0.3	60	<0.5	8.1	28	<0.05	4.8	18	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH86(0.7m)	Judgemental	0.7	9.11.2022	3	<0.3	12	NA	9.4	6	<0.05	5.6	8.9	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH87(0.8m)	Judgemental	0.8	9.11.2022	4	<0.3	25	NA	20	10	<0.05	7	17	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH88(0.2m)	Judgemental	0.2	9.11.2022	6	<0.3	66	NA	7.8	21	<0.05	4.5	12	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH89(0.2m)	Judgemental	0.2	9.11.2022	8	<0.3	28	1.2	2.3	16	<0.05	2.1	4.2	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH90(0.2m)	Judgemental	0.2	9.11.2022	22	<0.3	20	NA	4.1	15	<0.05	1.9	5.5	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH91(1.0m)	Judgemental	1	9.11.2022	<1	<0.3	110	<0.5	22	3	<0.05	85	25	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH92(0.2m)	Judgemental	0.2	9.11.2022	6	<0.3	42	NA	3	18	<0.05	2.7	9.9	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH93(0.2m)	Judgemental	0.2	8.11.2022	4	<0.3	44	<0.5	3.4	19	<0.05	3	9.3	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH94(0.2m)	Judgemental	0.2	8.11.2022	6	<0.3	100	<0.5	7.2	23	<0.05	6.3	11	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH95(0.2m)	Judgemental	0.2	8.11.2022	4	<0.3	18	NA	3.1	16	<0.05	2	8.4	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH96(0.7m)	Judgemental	0.7	8.11.2022	6	<0.3	67	NA	16	15	<0.05	16	18	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH97(0.2m)	Judgemental	0.2	8.11.2022	5	<0.3	59	NA	2.4	27	<0.05	2.2	8.1	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BH98(0.2m)	Judgemental	0.2	8.11.2022	6	<0.3	69	<0.5	2.8	23	<0.05	2.7	8.6	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BR1	-	0.2	7.11.2022	4	<0.3	100	NA	19	20	<0.05	38	28	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BR2	-	0.2	8.11.2022	5	<0.3	48	NA	2.5	2.7	<0.05	2.2	7.9	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BR3	-	0.2	9.11.2022	2	<0.3	110	NA	38	9	<0.05	83	42	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-BR4	-	0.2	9.11.2022	5	<0.3	35	NA	3.3	18	<0.05	3	11	<20	<20	<25	<25	<90	<120	<0.1	<0.1	<0.1	<0.3
ST-01-1533-SR1	-	0.2	7.11.2022	6	<0.4	170	NA	35	21	<0.1	67	43	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1533-SR2	-	0.2	8.11.2022	14	<0.4	82	NA	<5	42	<0.1	6.3	12	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1533-SR3	-	0.2	9.11.2022	3.4	<0.4	180	NA	<5	11	<0.1	110	57	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1533-SR4	-	0.2	9.11.2023	12	<0.4	44	NA	6.6	21	<0.1	6.9	20	<20	<20	<20	<50	<100	<100	<0.1	<0.1	<0.1	<0.3
ST-01-1533-WD1 (Sediment)	10.11.2022		10.11.2022	3	<0.3	70	NA	16	14	<0.05	24	34	<20	<20	<25	<25	<90	<120	<0.1	0.2	<0.1	<0.3
ST-01-1533-WD2 (Sediment)	10.11.2022		10.11.2022	2	<0.3	39	NA	6.4	14	<0.05	2.8	11	<20	<20	<25	<25	<90	<120	<0.1	0.3	<0.1	<0.3
ST-01-1533-WD1 (Sediment)	10.01.2023		10.01.2023	2	<0.3	56	0.7	18	8	<0.05	31	34	<20	<40	<25	<50	<180	<240	<0.1	<0.1	<0.1	<0.3
RPD1(Primary: ST-01-1533-BH16 and Secondary: ST-01-1533-BR1)				29	NA	10	NA	48	58	NA	48	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RPD2(Primary: ST-01-1533-BH97 and Secondary: ST-01-1533-BR2)				NA	NA	21	NA	4	164	NA	0	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RPD3(Primary: ST-01-1533-BH92 and Secondary: ST-01-1533-BR3)				100	NA	89	NA	171	67	NA	187	124	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RPD4(Primary: ST-01-1533-BH54 and Secondary: ST-01-1533-BR4)				86	NA	103	NA	166	77	NA	185	114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

				Metals and Metalloids									TRH						BTEX			
K2 CONSULTING GROUP				Arsenic	Cadmium	Total Chromium	Chromium VI	Copper	Lead	Mercury (inorganic)	Nickel	Zinc	TRH C6 - C9	TRH C10-C14	F1 ((C6-C10)- BTEX)	F2 (>C10-C16 less Naphthalene)	F3 (>C16-C34)	F4 (>C34-C40)	Benzene	Toluene	Ethylbenzene	Total Xylenes
	Sampling strategy		LOR	1	0.3	0.5	0.5	0.5	1	0.05	0.5	2	20	20	25	25	90	120	0.1	0.1	0.1	0.3
Sample ID		Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HIL A (Residential) (NEPM schedule-b1)				100	20	-	100	6,000	300	40	400	7,400	-	-	-	-	-	-	-	-	-	-
HSL A (Low-Density Residential) (NEPM schedule-b1)		0- <1m	Clay	-	-	-	-	-	-	-	-	-	-	-	50	280	-	-	0.7	480	NL	110
Management Limit (NEPM schedule-b1) (Fine soils)				-	-	-	-	-	-	-	-	-	-	-	800	1000	3,500	10,000	-	-	-	-
HSL (Direct soil contact) (NEPM schedule-b1) (Fine soils)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	14000	4500	12000
EILs (NEPM schedule-b1) - Site specific				100	-	-	-	210	1100	-	180	500	-	-	-	-	-	-	-	-	-	-
ESLs (NEPM schedule-b1)				-	-	-	-	-	-	-	-	-	-	-	180	120	1,300	5,600	65	105	125	45
RPD5(Primary: ST-01-1533-BH16 and Secondary: ST-01-1533-SR1)				64	NA	43	NA	12	63	NA	8	65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RPD6(Primary: ST-01-1533-BH97 and Secondary: ST-01-1533-SR2)				95	NA	33	NA	NA	43	NA	96	39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RPD7(Primary: ST-01-1533-BH92 and Secondary: ST-01-1533-SR3)				55	NA	124	NA	NA	48	NA	190	141	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RPD8(Primary: ST-01-1533-BH54 and Secondary: ST-01-1533-SR4)				143	NA	86	NA	137	90	NA	167	67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

K2 CONSULTING GROUP

				PAH																	OCP									OPP	Asbestos
				Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b,j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	PAH (Total)	Carcinogenic PAHs as B(a)P TEQ	DDT+DDE+DDD	Aldrin & Dieldrin	Total Chlordane	Total Endosulfan	Endrin	Heptachlor	Hexachlorobenzene	Methoxychlor	Total PCB	Chlorpyriphos	Asbestos (50 g)
	Sampling strategy		LOR	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.80	0.20	0.10	0.10	0.10	0.10	0.20	0.10	0.10	0.10	1.00	0.20	N
Sample ID		**Depth**	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
HIL A (Residential) (NEPM schedule-b1)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300	3	240	6	50	270	10	6	10	300		160	
HSL A (Low-Density Residential) (NEPM schedule-b1)		0- <1m	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-		-	
Management Limit (NEPM schedule-b1) (Fine soils)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
HSL (Direct soil contact) (NEPM schedule-b1) (Fine soils)				-	-	-	-	-	-	-	-	-	-	-	-	-	1400	-	-	-	-	-	-	-	-	-	-	-	-		-	
EILs (NEPM schedule-b1) - Site specific				-	-	-	-	-	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	-	-	-		-	
ESLs (NEPM schedule-b1)				-	-	-	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
ST-01-1492-BH01	Targeted	0.2	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH01	Targeted	0.7	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH01	Targeted	1	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH02	Targeted	0.2	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH02	Targeted	0.4	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH03	Targeted	0.2	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH03	Targeted	0.5	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH04	Targeted	0.2	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH04	Targeted	0.4	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH07	Targeted	0.2	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH07	Targeted	0.4	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH08	Targeted	0.2	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH08	Targeted	0.4	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH09	Targeted	0.2	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH10	Targeted	0.2	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH05	Targeted	0.2	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-BH05	Targeted	0.4	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-SS01	Targeted	surface sample	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1492-SS02	Targeted	surface sample	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NAD
ST-01-1492-SS03	Targeted	surface sample	27.06.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD
ST-01-1533-BH11(0.2m)	Systematic	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH12(0.7m)	Systematic	0.7	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH13(0.2m)	Systematic	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH14(0.2m)	Systematic	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH15(0.5m)	Systematic	0.5	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH16(0.2m)	Systematic	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH17(0.7m)	Systematic	0.7	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH18(0.2m)	Systematic	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH19(0.2m)	Systematic	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH20(0.2m)	Systematic	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	0.4	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH21(0.5m)	Systematic	0.5	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH22(0.2m)	Systematic	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH23(0.2m)	Systematic	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH24(0.2m)	Systematic	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH25(0.2m)	Systematic	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH26(surface sample)	Systematic	surface sample	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH27(0.2m)	Systematic	0.2	10.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH28(0.4m)	Systematic	0.4	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH29(0.5m)	Systematic	0.5	10.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH30(0.2m)	Systematic	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH31(0.2m)	Systematic	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH32(0.2m)	Systematic	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH33(0.2m)	Systematic	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH34(0.2m)	Systematic	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH35(0.2m)	Systematic	0.2	7.11.200	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH36(0.6m)	Systematic	0.6	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH37(0.6m)	Systematic	0.6	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH38(0.2m)	Systematic	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH39(0.2m)	Systematic	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH40(0.2m)	Judgemental	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH41(0.5m)	Judgemental	0.5	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH42(0.2m)	Judgemental	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH43(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH44(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH45(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH46(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH47(0.7m)	Judgemental	0.7	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH48(0.1m)	Judgemental	0.1	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH49(0.5m)	Judgemental	0.5	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH50(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH51(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH52(0.7m)	Judgemental	0.7	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH53(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH54(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD
ST-01-1533-BH55(0.7m)	Judgemental	0.7	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD

NSW 2580

K2 CONSULTING GROUP

				PAH																		OCP										OPP	Asbestos
				Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	PAH (Total)	Carcinogenic PAHs as B(a)P TEQ	DDT+DDE+DDD	Aldrin & Dieldrin	Total Chlordane	Total Endosulfan	Endrin	Heptachlor	Hexachlorobenze ne	Methoxychlor	Total PCB	Chlorpyriphos	Asbestos (50 g)	
	Sampling strategy		LOR	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.80	0.20	0.10	0.10	0.10	0.10	0.20	0.10	0.10	0.10	1.00	0.20	N	
Sample ID		Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
HIL A (Residential) (NEPM schedule-b1)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300	3	240	6	50	270	10	6	10	300		160		
HSL A (Low-Density Residential) (NEPM schedule-b1)		0- <1m	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-		-		
Management Limit (NEPM schedule-b1) (Fine soils)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		
HSL (Direct soil contact) (NEPM schedule-b1) (Fine soils)				-	-	-	-	-	-	-	-	-	-	-	-	-	1400	-	-	-	-	-	-	-	-	-	-	-	-		-		
EILs (NEPM schedule-b1) - Site specific				-	-	-	-	-	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	-	-	-		-		
ESLs (NEPM schedule-b1)				-	-	-	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		
ST-01-1533-BH56(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH57(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH58(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH59(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH60(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH61(0.5m)	Judgemental	0.5	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH62(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH63(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH64(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH65(0.9m)	Judgemental	0.9	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH66(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH67(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH68(0.6m)	Judgemental	0.6	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH69(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH70(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH71(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH72(0.8m)	Judgemental	0.8	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH73(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH74(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH75(1.0m)	Judgemental	1	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH76(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH77(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH78(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH79(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH80(0.6m)	Judgemental	0.6	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH81(0.8m)	Judgemental	0.8	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH82(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH83(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH84(0.1m)	Judgemental	0.1	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH85(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH86(0.7m)	Judgemental	0.7	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH87(0.8m)	Judgemental	0.8	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH88(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH89(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH90(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH91(1.0m)	Judgemental	1	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH92(0.2m)	Judgemental	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH93(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH94(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH95(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH96(0.7m)	Judgemental	0.7	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1		<0.2	NAD	
ST-01-1533-BH97(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BH98(0.2m)	Judgemental	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BR1	-	0.2	7.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BR2	-	0.2	8.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BR3	-	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-BR4	-	0.2	9.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<1	<0.2	NAD	
ST-01-1533-SR1	-	0.2	7.11.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.8	<0.05	<0.05	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD	
ST-01-1533-SR2	-	0.2	8.11.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD	
ST-01-1533-SR3	-	0.2	9.11.2022	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD	
ST-01-1533-SR4	-	0.2	9.11.2023	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.5	<0.05	<0.05	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<1	<0.2	NAD	
ST-01-1533-WD1 (Sediment)	10.11.2022		10.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2	NAD		
ST-01-1533-WD2 (Sediment)	10.11.2022		10.11.2022	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.2	NAD	NA	
ST-01-1533-WD1 (Sediment)	10.01.2023		10.01.2023	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.8	<0.2	<0.1	<0.3	<0.1	<0.4	<0.4	<0.2	<0.2	<0.2	<0.2	NAD	NA	
																														NA	NA	NA	
RPD1(Primary: ST-01-1533-BH16 and Secondary: ST-01-1533-BR1)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RPD2(Primary: ST-01-1533-BH97 and Secondary: ST-01-1533-BR2)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
RPD3(Primary: ST-01-1533-BH92 and Secondary: ST-01-1533-BR3)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RPD4(Primary: ST-01-1533-BH54 and Secondary: ST-01-1533-BR4)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

				PAH																			OCP										OPP	Asbestos
K2 CONSULTING GROUP				Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b,j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAH (Total)	Carcinogenic PAHs as B(a)P TEQ	DDT+DDE+DDD	Aldrin & Dieldrin	Total Chlordane	Total Endosulfan	Endrin	Heptachlor	Hexachlorobenze ne	Methoxychlor	Total PCB	Chlorpyriphos	Asbestos (50 g)	
	Sampling strategy		LOR	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.80	0.20	0.10	0.10	0.10	0.10	0.20	0.10	0.10	0.10	1.00	0.20	N
Sample ID		Depth	Sample Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
HIL A (Residential) (NEPM schedule-b1)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300	3	240	6	50	270	10	6	10	300		160	
HSL A (Low-Density Residential) (NEPM schedule-b1)		0- <1m	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
Management Limit (NEPM schedule-b1) (Fine soils)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
HSL (Direct soil contact) (NEPM schedule-b1) (Fine soils)				-	-	-	-	-	-	-	-	-	-	-	-	-	1400	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
EILs (NEPM schedule-b1) - Site specific				-	-	-	-	-	-	-	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
ESLs (NEPM schedule-b1)				-	-	-	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
																															NA	NA	NA
RPD5(Primary: ST-01-1533-BH16 and Secondary: ST-01-1533-SR1)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RPD6(Primary: ST-01-1533-BH97 and Secondary: ST-01-1533-SR2)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
RPD7(Primary: ST-01-1533-BH92 and Secondary: ST-01-1533-SR3)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
RPD8(Primary: ST-01-1533-BH54 and Secondary: ST-01-1533-SR4)				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

Appendix VII

Laboratory Reports

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Kannan Kaliappan
Client	K2 CONSULTING GROUP
Address	SUITE 222, 20B LEXINGTON DRIVE BELLA VISTA NSW 2153
Telephone	61 8 00 523 000
Facsimile	(Not specified)
Email	kannan@k2consultinggroup.com.au
Project	**ST-01-1533 (515 Crookwell Road, Kingsdal**
Order Number	**ST-01-1533**
Samples	99

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE239041 R1**
Date Received	11/11/2022
Date Reported	24/11/2022

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

This report cancels and supersedes the report No.SE239041 R0 dated 23/11/22 issued by SGS Environment, Health and Safety due to amended sample IDs.

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Huong CRAWFORD
Production Manager

Kamrul AHSAN
Senior Chemist

Ly Kim HA
Organic Section Head

Shane MCDERMOTT
Inorganic/Metals Chemist

VOC's in Soil [AN433] Tested: 16/11/2022

PARAMETER	UOM	LOR	BH11(0.2m) SOIL - 7/11/2022 SE239041.001	BH12(0.7m) SOIL - 7/11/2022 SE239041.002	BH13(0.2m) SOIL - 7/11/2022 SE239041.003	BH14(0.2m) SOIL - 7/11/2022 SE239041.004	BH15(0.5m) SOIL - 7/11/2022 SE239041.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH16(0.2m) SOIL - 7/11/2022 SE239041.006	BH17(0.7m) SOIL - 7/11/2022 SE239041.007	BH18(0.2m) SOIL - 7/11/2022 SE239041.008	BH19(0.2m) SOIL - 7/11/2022 SE239041.009	BH20(0.2m) SOIL - 10/11/2022 SE239041.010
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH21(0.5m) SOIL - 7/11/2022 SE239041.011	BH22(0.2m) SOIL - 7/11/2022 SE239041.012	BH23(0.2m) SOIL - 10/11/2022 SE239041.013	BH24(0.2m) SOIL - 7/11/2022 SE239041.014	BH25(0.2m) SOIL - 7/11/2022 SE239041.015
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH26(surface sample) SOIL - 7/11/2022 SE239041.016	BH27(0.2m) SOIL - 10/11/2022 SE239041.017	BH28(0.4m) SOIL - 7/11/2022 SE239041.018	BH29(0.5m) SOIL - 10/11/2022 SE239041.019	BH30(0.2m) SOIL - 9/11/2022 SE239041.020
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH31(0.2m) SOIL - 9/11/2022 SE239041.021	BH32(0.2m) SOIL - 8/11/2022 SE239041.022	BH33(0.2m) SOIL - 8/11/2022 SE239041.023	BH34(0.2m) SOIL - 8/11/2022 SE239041.024	BH35(0.2m) SOIL - 7/11/2022 SE239041.025
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH36(0.6m) SOIL - 7/11/2022 SE239041.026	BH37(0.6m) SOIL - 9/11/2022 SE239041.027	BH38(0.2m) SOIL - 9/11/2022 SE239041.028	BH39(0.2m) SOIL - 9/11/2022 SE239041.029	BH40(0.2m) SOIL - 7/11/2022 SE239041.030
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH41(0.5m) SOIL - 7/11/2022 SE239041.031	BH42(0.2m) SOIL - 7/11/2022 SE239041.032	BH43(0.2m) SOIL - 9/11/2022 SE239041.033	BH44(0.2m) SOIL - 9/11/2022 SE239041.034	BH45(0.2m) SOIL - 9/11/2022 SE239041.035
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH46(0.2m) SOIL - 9/11/2022 SE239041.036	BH47(0.7m) SOIL - 8/11/2022 SE239041.037	BH48(0.1m) SOIL - 8/11/2022 SE239041.038	BH49(0.5m) SOIL - 8/11/2022 SE239041.039	BH50(0.2m) SOIL - 8/11/2022 SE239041.040
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH51(0.2m) SOIL - 8/11/2022 SE239041.041	BH52(0.7m) SOIL - 8/11/2022 SE239041.042	BH53(0.2m) SOIL - 8/11/2022 SE239041.043	BH54(0.2m) SOIL - 9/11/2022 SE239041.044	BH55(0.7m) SOIL - 9/11/2022 SE239041.045
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH56(0.2m) SOIL - 9/11/2022 SE239041.046	BH57(0.2m) SOIL - 9/11/2022 SE239041.047	BH58(0.2m) SOIL - 9/11/2022 SE239041.048	BH59(0.2m) SOIL - 9/11/2022 SE239041.049	BH60(0.2m) SOIL - 9/11/2022 SE239041.050
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH61(0.5m) SOIL - 9/11/2022 SE239041.051	BH62(0.2m) SOIL - 9/11/2022 SE239041.052	BH63(0.2m) SOIL - 7/11/2022 SE239041.053	BH64(0.2m) SOIL - 8/11/2022 SE239041.054	BH65(0.9m) SOIL - 8/11/2022 SE239041.055
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH66(0.2m) SOIL - 8/11/2022 SE239041.056	BH67(0.2m) SOIL - 8/11/2022 SE239041.057	BH68(0.6m) SOIL - 8/11/2022 SE239041.058	BH69(0.2m) SOIL - 8/11/2022 SE239041.059	BH70(0.2m) SOIL - 8/11/2022 SE239041.060
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH71(0.2m) SOIL - 8/11/2022 SE239041.061	BH72(0.8m) SOIL - 8/11/2022 SE239041.062	BH73(0.2m) SOIL - 8/11/2022 SE239041.063	BH74(0.2m) SOIL - 8/11/2022 SE239041.064	BH75(1.0m) SOIL - 8/11/2022 SE239041.065
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH76(0.2m) SOIL - 8/11/2022 SE239041.066	BH77(0.2m) SOIL - 8/11/2022 SE239041.067	BH78(0.2m) SOIL - 9/11/2022 SE239041.068	BH79(0.2m) SOIL - 9/11/2022 SE239041.069	BH80(0.6m) SOIL - 9/11/2022 SE239041.070
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH81(0.8m) SOIL - 9/11/2022 SE239041.071	BH82(0.2m) SOIL - 9/11/2022 SE239041.072	BH83(0.2m) SOIL - 9/11/2022 SE239041.073	BH84(0.1m) SOIL - 9/11/2022 SE239041.074	BH85(0.2m) SOIL - 9/11/2022 SE239041.075
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH86(0.7m) SOIL - 9/11/2022 SE239041.076	BH87(0.8m) SOIL - 9/11/2022 SE239041.077	BH88(0.2m) SOIL - 9/11/2022 SE239041.078	BH89(0.2m) SOIL - 9/11/2022 SE239041.079	BH90(0.2m) SOIL - 9/11/2022 SE239041.080
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

VOC's in Soil [AN433] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH91(1.0m) SOIL - 9/11/2022 SE239041.081	BH92(0.2m) SOIL - 9/11/2022 SE239041.082	BH93(0.2m) SOIL - 8/11/2022 SE239041.083	BH94(0.2m) SOIL - 8/11/2022 SE239041.084	BH95(0.2m) SOIL - 8/11/2022 SE239041.085
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH96(0.7m) SOIL - 8/11/2022 SE239041.086	BH97(0.2m) SOIL - 8/11/2022 SE239041.087	BH98(0.2m) SOIL - 8/11/2022 SE239041.088	BR1 SOIL - 7/11/2022 SE239041.089	BR2 SOIL - 8/11/2022 SE239041.090
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BR3 SOIL - 9/11/2022 SE239041.091	BR4 SOIL - 9/11/2022 SE239041.092	WD1 SOIL - 10/11/2022 SE239041.093	WD2 SOIL - 10/11/2022 SE239041.094	TRIP BLANK SOIL - 10/11/2022 SE239041.098
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	**0.2**	**0.3**	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes*	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX*	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	TRP SPIKE SOIL - 10/11/2022 SE239041.099
Benzene	mg/kg	0.1	[112%]
Toluene	mg/kg	0.1	[111%]
Ethylbenzene	mg/kg	0.1	[108%]
m/p-xylene	mg/kg	0.2	[93%]
o-xylene	mg/kg	0.1	[92%]
Total Xylenes*	mg/kg	0.3	-
Total BTEX*	mg/kg	0.6	-
Naphthalene (VOC)*	mg/kg	0.1	-

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 16/11/2022

PARAMETER	UOM	LOR	BH11(0.2m) SOIL - 7/11/2022 SE239041.001	BH12(0.7m) SOIL - 7/11/2022 SE239041.002	BH13(0.2m) SOIL - 7/11/2022 SE239041.003	BH14(0.2m) SOIL - 7/11/2022 SE239041.004	BH15(0.5m) SOIL - 7/11/2022 SE239041.005
TRH C6-C10 raw	µg/L	0.05	**7.4**	**25**	**10**	**1.3**	**22**
TRH C6-C9 raw	µg/L	0.05	**6.1**	**22**	**9.2**	**1.1**	**21**
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH16(0.2m) SOIL - 7/11/2022 SE239041.006	BH17(0.7m) SOIL - 7/11/2022 SE239041.007	BH18(0.2m) SOIL - 7/11/2022 SE239041.008	BH19(0.2m) SOIL - 7/11/2022 SE239041.009	BH20(0.2m) SOIL - 10/11/2022 SE239041.010
TRH C6-C10 raw	µg/L	0.05	**3.8**	**2.8**	<0.050	**6.7**	**8.1**
TRH C6-C9 raw	µg/L	0.05	**3.4**	**2.4**	<0.050	**6.0**	**7.4**
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH21(0.5m) SOIL - 7/11/2022 SE239041.011	BH22(0.2m) SOIL - 7/11/2022 SE239041.012	BH23(0.2m) SOIL - 10/11/2022 SE239041.013	BH24(0.2m) SOIL - 7/11/2022 SE239041.014	BH25(0.2m) SOIL - 7/11/2022 SE239041.015
TRH C6-C10 raw	µg/L	0.05	**3.9**	**4.5**	**0.94**	**0.97**	**7.8**
TRH C6-C9 raw	µg/L	0.05	**3.5**	**4.0**	**0.68**	**0.85**	**7.2**
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH26(surface sample) SOIL - 7/11/2022 SE239041.016	BH27(0.2m) SOIL - 10/11/2022 SE239041.017	BH28(0.4m) SOIL - 7/11/2022 SE239041.018	BH29(0.5m) SOIL - 10/11/2022 SE239041.019	BH30(0.2m) SOIL - 9/11/2022 SE239041.020
TRH C6-C10 raw	µg/L	0.05	<0.050	<0.050	**2.3**	**8.8**	**3.7**
TRH C6-C9 raw	µg/L	0.05	<0.050	<0.050	**2.1**	**8.1**	**2.7**
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH31(0.2m) SOIL - 9/11/2022 SE239041.021	BH32(0.2m) SOIL - 8/11/2022 SE239041.022	BH33(0.2m) SOIL - 8/11/2022 SE239041.023	BH34(0.2m) SOIL - 8/11/2022 SE239041.024	BH35(0.2m) SOIL - 7/11/2022 SE239041.025
TRH C6-C10 raw	µg/L	0.05	**3.5**	**0.97**	**0.25**	<0.050	**0.34**
TRH C6-C9 raw	µg/L	0.05	**2.5**	**0.65**	**0.19**	<0.050	**0.40**
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH36(0.6m) SOIL - 7/11/2022 SE239041.026	BH37(0.6m) SOIL - 9/11/2022 SE239041.027	BH38(0.2m) SOIL - 9/11/2022 SE239041.028	BH39(0.2m) SOIL - 9/11/2022 SE239041.029	BH40(0.2m) SOIL - 7/11/2022 SE239041.030
TRH C6-C10 raw	µg/L	0.05	**0.11**	**0.45**	**0.069**	<0.050	**0.071**
TRH C6-C9 raw	µg/L	0.05	**0.21**	**0.55**	**0.18**	<0.050	**0.21**
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH41(0.5m) SOIL - 7/11/2022 SE239041.031	BH42(0.2m) SOIL - 7/11/2022 SE239041.032	BH43(0.2m) SOIL - 9/11/2022 SE239041.033	BH44(0.2m) SOIL - 9/11/2022 SE239041.034	BH45(0.2m) SOIL - 9/11/2022 SE239041.035
TRH C6-C10 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9 raw	µg/L	0.05	**0.058**	<0.050	<0.050	**0.11**	<0.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH46(0.2m) SOIL - 9/11/2022 SE239041.036	BH47(0.7m) SOIL - 8/11/2022 SE239041.037	BH48(0.1m) SOIL - 8/11/2022 SE239041.038	BH49(0.5m) SOIL - 8/11/2022 SE239041.039	BH50(0.2m) SOIL - 8/11/2022 SE239041.040
TRH C6-C10 raw	µg/L	0.05	<0.050	**0.49**	<0.050	**9.1**	**8.4**
TRH C6-C9 raw	µg/L	0.05	**0.15**	**0.63**	**0.083**	**6.3**	**5.8**
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH51(0.2m) SOIL - 8/11/2022 SE239041.041	BH52(0.7m) SOIL - 8/11/2022 SE239041.042	BH53(0.2m) SOIL - 8/11/2022 SE239041.043	BH54(0.2m) SOIL - 9/11/2022 SE239041.044	BH55(0.7m) SOIL - 9/11/2022 SE239041.045
TRH C6-C10 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH56(0.2m) SOIL - 9/11/2022 SE239041.046	BH57(0.2m) SOIL - 9/11/2022 SE239041.047	BH58(0.2m) SOIL - 9/11/2022 SE239041.048	BH59(0.2m) SOIL - 9/11/2022 SE239041.049	BH60(0.2m) SOIL - 9/11/2022 SE239041.050
TRH C6-C10 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH61(0.5m) SOIL - 9/11/2022 SE239041.051	BH62(0.2m) SOIL - 9/11/2022 SE239041.052	BH63(0.2m) SOIL - 7/11/2022 SE239041.053	BH64(0.2m) SOIL - 8/11/2022 SE239041.054	BH65(0.9m) SOIL - 8/11/2022 SE239041.055
TRH C6-C10 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH66(0.2m) SOIL - 8/11/2022 SE239041.056	BH67(0.2m) SOIL - 8/11/2022 SE239041.057	BH68(0.6m) SOIL - 8/11/2022 SE239041.058	BH69(0.2m) SOIL - 8/11/2022 SE239041.059	BH70(0.2m) SOIL - 8/11/2022 SE239041.060
TRH C6-C10 raw	µg/L	0.05	<0.050	<0.050	**3.2**	**4.5**	<0.050
TRH C6-C9 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH71(0.2m) SOIL - 8/11/2022 SE239041.061	BH72(0.8m) SOIL - 8/11/2022 SE239041.062	BH73(0.2m) SOIL - 8/11/2022 SE239041.063	BH74(0.2m) SOIL - 8/11/2022 SE239041.064	BH75(1.0m) SOIL - 8/11/2022 SE239041.065
TRH C6-C10 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH76(0.2m) SOIL - 8/11/2022 SE239041.066	BH77(0.2m) SOIL - 8/11/2022 SE239041.067	BH78(0.2m) SOIL - 9/11/2022 SE239041.068	BH79(0.2m) SOIL - 9/11/2022 SE239041.069	BH80(0.6m) SOIL - 9/11/2022 SE239041.070
TRH C6-C10 raw	µg/L	0.05	<0.050	<0.050	**5.0**	**1.2**	<0.050
TRH C6-C9 raw	µg/L	0.05	<0.050	<0.050	**2.6**	**0.20**	<0.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH81(0.8m) SOIL - 9/11/2022 SE239041.071	BH82(0.2m) SOIL - 9/11/2022 SE239041.072	BH83(0.2m) SOIL - 9/11/2022 SE239041.073	BH84(0.1m) SOIL - 9/11/2022 SE239041.074	BH85(0.2m) SOIL - 9/11/2022 SE239041.075
TRH C6-C10 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH86(0.7m) SOIL - 9/11/2022 SE239041.076	BH87(0.8m) SOIL - 9/11/2022 SE239041.077	BH88(0.2m) SOIL - 9/11/2022 SE239041.078	BH89(0.2m) SOIL - 9/11/2022 SE239041.079	BH90(0.2m) SOIL - 9/11/2022 SE239041.080
TRH C6-C10 raw	µg/L	0.05	<0.050	**2.8**	**1.5**	<0.050	<0.050
TRH C6-C9 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH91(1.0m) SOIL - 9/11/2022 SE239041.081	BH92(0.2m) SOIL - 9/11/2022 SE239041.082	BH93(0.2m) SOIL - 8/11/2022 SE239041.083	BH94(0.2m) SOIL - 8/11/2022 SE239041.084	BH95(0.2m) SOIL - 8/11/2022 SE239041.085
TRH C6-C10 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH96(0.7m) SOIL - 8/11/2022 SE239041.086	BH97(0.2m) SOIL - 8/11/2022 SE239041.087	BH98(0.2m) SOIL - 8/11/2022 SE239041.088	BR1 SOIL - 7/11/2022 SE239041.089	BR2 SOIL - 8/11/2022 SE239041.090
TRH C6-C10 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BR3 SOIL - 9/11/2022 SE239041.091	BR4 SOIL - 9/11/2022 SE239041.092	WD1 SOIL - 10/11/2022 SE239041.093	WD2 SOIL - 10/11/2022 SE239041.094	TRIP BLANK SOIL - 10/11/2022 SE239041.098
TRH C6-C10 raw	µg/L	0.05	<0.050	<0.050	<0.050	**0.27**	<0.050
TRH C6-C9 raw	µg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 16/11/2022

PARAMETER	UOM	LOR	BH11(0.2m) SOIL - 7/11/2022 SE239041.001	BH12(0.7m) SOIL - 7/11/2022 SE239041.002	BH13(0.2m) SOIL - 7/11/2022 SE239041.003	BH14(0.2m) SOIL - 7/11/2022 SE239041.004	BH15(0.5m) SOIL - 7/11/2022 SE239041.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH16(0.2m) SOIL - 7/11/2022 SE239041.006	BH17(0.7m) SOIL - 7/11/2022 SE239041.007	BH18(0.2m) SOIL - 7/11/2022 SE239041.008	BH19(0.2m) SOIL - 7/11/2022 SE239041.009	BH20(0.2m) SOIL - 10/11/2022 SE239041.010
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH21(0.5m) SOIL - 7/11/2022 SE239041.011	BH22(0.2m) SOIL - 7/11/2022 SE239041.012	BH23(0.2m) SOIL - 10/11/2022 SE239041.013	BH24(0.2m) SOIL - 7/11/2022 SE239041.014	BH25(0.2m) SOIL - 7/11/2022 SE239041.015
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH26(surface sample) SOIL - 7/11/2022 SE239041.016	BH27(0.2m) SOIL - 10/11/2022 SE239041.017	BH28(0.4m) SOIL - 7/11/2022 SE239041.018	BH29(0.5m) SOIL - 10/11/2022 SE239041.019	BH30(0.2m) SOIL - 9/11/2022 SE239041.020
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH31(0.2m) SOIL - 9/11/2022 SE239041.021	BH32(0.2m) SOIL - 8/11/2022 SE239041.022	BH33(0.2m) SOIL - 8/11/2022 SE239041.023	BH34(0.2m) SOIL - 8/11/2022 SE239041.024	BH35(0.2m) SOIL - 7/11/2022 SE239041.025
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH36(0.6m) SOIL - 7/11/2022 SE239041.026	BH37(0.6m) SOIL - 9/11/2022 SE239041.027	BH38(0.2m) SOIL - 9/11/2022 SE239041.028	BH39(0.2m) SOIL - 9/11/2022 SE239041.029	BH40(0.2m) SOIL - 7/11/2022 SE239041.030
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH41(0.5m) SOIL - 7/11/2022 SE239041.031	BH42(0.2m) SOIL - 7/11/2022 SE239041.032	BH43(0.2m) SOIL - 9/11/2022 SE239041.033	BH44(0.2m) SOIL - 9/11/2022 SE239041.034	BH45(0.2m) SOIL - 9/11/2022 SE239041.035
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH46(0.2m) SOIL - 9/11/2022 SE239041.036	BH47(0.7m) SOIL - 8/11/2022 SE239041.037	BH48(0.1m) SOIL - 8/11/2022 SE239041.038	BH49(0.5m) SOIL - 8/11/2022 SE239041.039	BH50(0.2m) SOIL - 8/11/2022 SE239041.040
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH51(0.2m) SOIL - 8/11/2022 SE239041.041	BH52(0.7m) SOIL - 8/11/2022 SE239041.042	BH53(0.2m) SOIL - 8/11/2022 SE239041.043	BH54(0.2m) SOIL - 9/11/2022 SE239041.044	BH55(0.7m) SOIL - 9/11/2022 SE239041.045
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH56(0.2m) SOIL - 9/11/2022 SE239041.046	BH57(0.2m) SOIL - 9/11/2022 SE239041.047	BH58(0.2m) SOIL - 9/11/2022 SE239041.048	BH59(0.2m) SOIL - 9/11/2022 SE239041.049	BH60(0.2m) SOIL - 9/11/2022 SE239041.050
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH61(0.5m) SOIL - 9/11/2022 SE239041.051	BH62(0.2m) SOIL - 9/11/2022 SE239041.052	BH63(0.2m) SOIL - 7/11/2022 SE239041.053	BH64(0.2m) SOIL - 8/11/2022 SE239041.054	BH65(0.9m) SOIL - 8/11/2022 SE239041.055
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH66(0.2m) SOIL - 8/11/2022 SE239041.056	BH67(0.2m) SOIL - 8/11/2022 SE239041.057	BH68(0.6m) SOIL - 8/11/2022 SE239041.058	BH69(0.2m) SOIL - 8/11/2022 SE239041.059	BH70(0.2m) SOIL - 8/11/2022 SE239041.060
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH71(0.2m) SOIL - 8/11/2022 SE239041.061	BH72(0.8m) SOIL - 8/11/2022 SE239041.062	BH73(0.2m) SOIL - 8/11/2022 SE239041.063	BH74(0.2m) SOIL - 8/11/2022 SE239041.064	BH75(1.0m) SOIL - 8/11/2022 SE239041.065
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH76(0.2m) SOIL - 8/11/2022 SE239041.066	BH77(0.2m) SOIL - 8/11/2022 SE239041.067	BH78(0.2m) SOIL - 9/11/2022 SE239041.068	BH79(0.2m) SOIL - 9/11/2022 SE239041.069	BH80(0.6m) SOIL - 9/11/2022 SE239041.070
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH81(0.8m) SOIL - 9/11/2022 SE239041.071	BH82(0.2m) SOIL - 9/11/2022 SE239041.072	BH83(0.2m) SOIL - 9/11/2022 SE239041.073	BH84(0.1m) SOIL - 9/11/2022 SE239041.074	BH85(0.2m) SOIL - 9/11/2022 SE239041.075
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH86(0.7m) SOIL - 9/11/2022 SE239041.076	BH87(0.8m) SOIL - 9/11/2022 SE239041.077	BH88(0.2m) SOIL - 9/11/2022 SE239041.078	BH89(0.2m) SOIL - 9/11/2022 SE239041.079	BH90(0.2m) SOIL - 9/11/2022 SE239041.080
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH91(1.0m) SOIL - 9/11/2022 SE239041.081	BH92(0.2m) SOIL - 9/11/2022 SE239041.082	BH93(0.2m) SOIL - 8/11/2022 SE239041.083	BH94(0.2m) SOIL - 8/11/2022 SE239041.084	BH95(0.2m) SOIL - 8/11/2022 SE239041.085
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH96(0.7m) SOIL - 8/11/2022 SE239041.086	BH97(0.2m) SOIL - 8/11/2022 SE239041.087	BH98(0.2m) SOIL - 8/11/2022 SE239041.088	BR1 SOIL - 7/11/2022 SE239041.089	BR2 SOIL - 8/11/2022 SE239041.090
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BR3 SOIL - 9/11/2022 SE239041.091	BR4 SOIL - 9/11/2022 SE239041.092	WD1 SOIL - 10/11/2022 SE239041.093	WD2 SOIL - 10/11/2022 SE239041.094	TRIP BLANK SOIL - 10/11/2022 SE239041.098
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/11/2022

PARAMETER	UOM	LOR	BH11(0.2m) SOIL - 7/11/2022 SE239041.001	BH12(0.7m) SOIL - 7/11/2022 SE239041.002	BH13(0.2m) SOIL - 7/11/2022 SE239041.003	BH14(0.2m) SOIL - 7/11/2022 SE239041.004	BH15(0.5m) SOIL - 7/11/2022 SE239041.005
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH16(0.2m) SOIL - 7/11/2022 SE239041.006	BH17(0.7m) SOIL - 7/11/2022 SE239041.007	BH18(0.2m) SOIL - 7/11/2022 SE239041.008	BH19(0.2m) SOIL - 7/11/2022 SE239041.009	BH20(0.2m) SOIL - 10/11/2022 SE239041.010
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH21(0.5m) SOIL - 7/11/2022 SE239041.011	BH22(0.2m) SOIL - 7/11/2022 SE239041.012	BH23(0.2m) SOIL - 10/11/2022 SE239041.013	BH24(0.2m) SOIL - 7/11/2022 SE239041.014	BH25(0.2m) SOIL - 7/11/2022 SE239041.015
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH26(surface sample) SOIL - 7/11/2022 SE239041.016	BH27(0.2m) SOIL - 10/11/2022 SE239041.017	BH28(0.4m) SOIL - 7/11/2022 SE239041.018	BH29(0.5m) SOIL - 10/11/2022 SE239041.019	BH30(0.2m) SOIL - 9/11/2022 SE239041.020
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH31(0.2m) SOIL - 9/11/2022 SE239041.021	BH32(0.2m) SOIL - 8/11/2022 SE239041.022	BH33(0.2m) SOIL - 8/11/2022 SE239041.023	BH34(0.2m) SOIL - 8/11/2022 SE239041.024	BH35(0.2m) SOIL - 7/11/2022 SE239041.025
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH36(0.6m) SOIL - 7/11/2022 SE239041.026	BH37(0.6m) SOIL - 9/11/2022 SE239041.027	BH38(0.2m) SOIL - 9/11/2022 SE239041.028	BH39(0.2m) SOIL - 9/11/2022 SE239041.029	BH40(0.2m) SOIL - 7/11/2022 SE239041.030
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH41(0.5m) SOIL - 7/11/2022 SE239041.031	BH42(0.2m) SOIL - 7/11/2022 SE239041.032	BH43(0.2m) SOIL - 9/11/2022 SE239041.033	BH44(0.2m) SOIL - 9/11/2022 SE239041.034	BH45(0.2m) SOIL - 9/11/2022 SE239041.035
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH46(0.2m) SOIL - 9/11/2022 SE239041.036	BH47(0.7m) SOIL - 8/11/2022 SE239041.037	BH48(0.1m) SOIL - 8/11/2022 SE239041.038	BH49(0.5m) SOIL - 8/11/2022 SE239041.039	BH50(0.2m) SOIL - 8/11/2022 SE239041.040
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH51(0.2m) SOIL - 8/11/2022 SE239041.041	BH52(0.7m) SOIL - 8/11/2022 SE239041.042	BH53(0.2m) SOIL - 8/11/2022 SE239041.043	BH54(0.2m) SOIL - 9/11/2022 SE239041.044	BH55(0.7m) SOIL - 9/11/2022 SE239041.045
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH56(0.2m) SOIL - 9/11/2022 SE239041.046	BH57(0.2m) SOIL - 9/11/2022 SE239041.047	BH58(0.2m) SOIL - 9/11/2022 SE239041.048	BH59(0.2m) SOIL - 9/11/2022 SE239041.049	BH60(0.2m) SOIL - 9/11/2022 SE239041.050
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH61(0.5m) SOIL - 9/11/2022 SE239041.051	BH62(0.2m) SOIL - 9/11/2022 SE239041.052	BH63(0.2m) SOIL - 7/11/2022 SE239041.053	BH64(0.2m) SOIL - 8/11/2022 SE239041.054	BH65(0.9m) SOIL - 8/11/2022 SE239041.055
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH66(0.2m) SOIL - 8/11/2022 SE239041.056	BH67(0.2m) SOIL - 8/11/2022 SE239041.057	BH68(0.6m) SOIL - 8/11/2022 SE239041.058	BH69(0.2m) SOIL - 8/11/2022 SE239041.059	BH70(0.2m) SOIL - 8/11/2022 SE239041.060
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH71(0.2m) SOIL - 8/11/2022 SE239041.061	BH72(0.8m) SOIL - 8/11/2022 SE239041.062	BH73(0.2m) SOIL - 8/11/2022 SE239041.063	BH74(0.2m) SOIL - 8/11/2022 SE239041.064	BH75(1.0m) SOIL - 8/11/2022 SE239041.065
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH76(0.2m) SOIL - 8/11/2022 SE239041.066	BH77(0.2m) SOIL - 8/11/2022 SE239041.067	BH78(0.2m) SOIL - 9/11/2022 SE239041.068	BH79(0.2m) SOIL - 9/11/2022 SE239041.069	BH80(0.6m) SOIL - 9/11/2022 SE239041.070
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH81(0.8m) SOIL - 9/11/2022 SE239041.071	BH82(0.2m) SOIL - 9/11/2022 SE239041.072	BH83(0.2m) SOIL - 9/11/2022 SE239041.073	BH84(0.1m) SOIL - 9/11/2022 SE239041.074	BH85(0.2m) SOIL - 9/11/2022 SE239041.075
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH86(0.7m) SOIL - 9/11/2022 SE239041.076	BH87(0.8m) SOIL - 9/11/2022 SE239041.077	BH88(0.2m) SOIL - 9/11/2022 SE239041.078	BH89(0.2m) SOIL - 9/11/2022 SE239041.079	BH90(0.2m) SOIL - 9/11/2022 SE239041.080
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH91(1.0m) SOIL - 9/11/2022 SE239041.081	BH92(0.2m) SOIL - 9/11/2022 SE239041.082	BH93(0.2m) SOIL - 8/11/2022 SE239041.083	BH94(0.2m) SOIL - 8/11/2022 SE239041.084	BH95(0.2m) SOIL - 8/11/2022 SE239041.085
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH96(0.7m) SOIL - 8/11/2022 SE239041.086	BH97(0.2m) SOIL - 8/11/2022 SE239041.087	BH98(0.2m) SOIL - 8/11/2022 SE239041.088	BR1 SOIL - 7/11/2022 SE239041.089	BR2 SOIL - 8/11/2022 SE239041.090
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BR3 SOIL - 9/11/2022 SE239041.091	BR4 SOIL - 9/11/2022 SE239041.092	WD1 SOIL - 10/11/2022 SE239041.093	WD2 SOIL - 10/11/2022 SE239041.094
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8

OC Pesticides in Soil [AN420] Tested: 16/11/2022

PARAMETER	UOM	LOR	BH11(0.2m) SOIL - 7/11/2022 SE239041.001	BH12(0.7m) SOIL - 7/11/2022 SE239041.002	BH13(0.2m) SOIL - 7/11/2022 SE239041.003	BH14(0.2m) SOIL - 7/11/2022 SE239041.004	BH15(0.5m) SOIL - 7/11/2022 SE239041.005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH16(0.2m) SOIL - 7/11/2022 SE239041.006	BH17(0.7m) SOIL - 7/11/2022 SE239041.007	BH18(0.2m) SOIL - 7/11/2022 SE239041.008	BH19(0.2m) SOIL - 7/11/2022 SE239041.009	BH20(0.2m) SOIL - 10/11/2022 SE239041.010
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	**0.4**
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH21(0.5m) SOIL - 7/11/2022 SE239041.011	BH22(0.2m) SOIL - 7/11/2022 SE239041.012	BH23(0.2m) SOIL - 10/11/2022 SE239041.013	BH24(0.2m) SOIL - 7/11/2022 SE239041.014	BH25(0.2m) SOIL - 7/11/2022 SE239041.015
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH26(surface sample) SOIL - 7/11/2022 SE239041.016	BH27(0.2m) SOIL - 10/11/2022 SE239041.017	BH28(0.4m) SOIL - 7/11/2022 SE239041.018	BH29(0.5m) SOIL - 10/11/2022 SE239041.019	BH30(0.2m) SOIL - 9/11/2022 SE239041.020
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH31(0.2m) SOIL - 9/11/2022 SE239041.021	BH32(0.2m) SOIL - 8/11/2022 SE239041.022	BH33(0.2m) SOIL - 8/11/2022 SE239041.023	BH34(0.2m) SOIL - 8/11/2022 SE239041.024	BH35(0.2m) SOIL - 7/11/2022 SE239041.025
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH36(0.6m) SOIL - 7/11/2022 SE239041.026	BH37(0.6m) SOIL - 9/11/2022 SE239041.027	BH38(0.2m) SOIL - 9/11/2022 SE239041.028	BH39(0.2m) SOIL - 9/11/2022 SE239041.029	BH40(0.2m) SOIL - 7/11/2022 SE239041.030
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH41(0.5m) SOIL - 7/11/2022 SE239041.031	BH42(0.2m) SOIL - 7/11/2022 SE239041.032	BH43(0.2m) SOIL - 9/11/2022 SE239041.033	BH44(0.2m) SOIL - 9/11/2022 SE239041.034	BH45(0.2m) SOIL - 9/11/2022 SE239041.035
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH46(0.2m) SOIL - 9/11/2022 SE239041.036	BH47(0.7m) SOIL - 8/11/2022 SE239041.037	BH48(0.1m) SOIL - 8/11/2022 SE239041.038	BH49(0.5m) SOIL - 8/11/2022 SE239041.039	BH50(0.2m) SOIL - 8/11/2022 SE239041.040
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH51(0.2m) SOIL - 8/11/2022 SE239041.041	BH52(0.7m) SOIL - 8/11/2022 SE239041.042	BH53(0.2m) SOIL - 8/11/2022 SE239041.043	BH54(0.2m) SOIL - 9/11/2022 SE239041.044	BH55(0.7m) SOIL - 9/11/2022 SE239041.045
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH56(0.2m) SOIL - 9/11/2022 SE239041.046	BH57(0.2m) SOIL - 9/11/2022 SE239041.047	BH58(0.2m) SOIL - 9/11/2022 SE239041.048	BH59(0.2m) SOIL - 9/11/2022 SE239041.049	BH60(0.2m) SOIL - 9/11/2022 SE239041.050
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH61(0.5m) SOIL - 9/11/2022 SE239041.051	BH62(0.2m) SOIL - 9/11/2022 SE239041.052	BH63(0.2m) SOIL - 7/11/2022 SE239041.053	BH64(0.2m) SOIL - 8/11/2022 SE239041.054	BH65(0.9m) SOIL - 8/11/2022 SE239041.055
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH66(0.2m) SOIL - 8/11/2022 SE239041.056	BH67(0.2m) SOIL - 8/11/2022 SE239041.057	BH68(0.6m) SOIL - 8/11/2022 SE239041.058	BH69(0.2m) SOIL - 8/11/2022 SE239041.059	BH70(0.2m) SOIL - 8/11/2022 SE239041.060
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH71(0.2m) SOIL - 8/11/2022 SE239041.061	BH72(0.8m) SOIL - 8/11/2022 SE239041.062	BH73(0.2m) SOIL - 8/11/2022 SE239041.063	BH74(0.2m) SOIL - 8/11/2022 SE239041.064	BH75(1.0m) SOIL - 8/11/2022 SE239041.065
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH76(0.2m) SOIL - 8/11/2022 SE239041.066	BH77(0.2m) SOIL - 8/11/2022 SE239041.067	BH78(0.2m) SOIL - 9/11/2022 SE239041.068	BH79(0.2m) SOIL - 9/11/2022 SE239041.069	BH80(0.6m) SOIL - 9/11/2022 SE239041.070
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH81(0.8m) SOIL - 9/11/2022 SE239041.071	BH82(0.2m) SOIL - 9/11/2022 SE239041.072	BH83(0.2m) SOIL - 9/11/2022 SE239041.073	BH84(0.1m) SOIL - 9/11/2022 SE239041.074	BH85(0.2m) SOIL - 9/11/2022 SE239041.075
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH86(0.7m) SOIL - 9/11/2022 SE239041.076	BH87(0.8m) SOIL - 9/11/2022 SE239041.077	BH88(0.2m) SOIL - 9/11/2022 SE239041.078	BH89(0.2m) SOIL - 9/11/2022 SE239041.079	BH90(0.2m) SOIL - 9/11/2022 SE239041.080
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH91(1.0m) SOIL - 9/11/2022 SE239041.081	BH92(0.2m) SOIL - 9/11/2022 SE239041.082	BH93(0.2m) SOIL - 8/11/2022 SE239041.083	BH94(0.2m) SOIL - 8/11/2022 SE239041.084	BH95(0.2m) SOIL - 8/11/2022 SE239041.085
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH96(0.7m) SOIL - 8/11/2022 SE239041.086	BH97(0.2m) SOIL - 8/11/2022 SE239041.087	BH98(0.2m) SOIL - 8/11/2022 SE239041.088	BR1 SOIL - 7/11/2022 SE239041.089	BR2 SOIL - 8/11/2022 SE239041.090
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BR3 SOIL - 9/11/2022 SE239041.091	BR4 SOIL - 9/11/2022 SE239041.092	WD1 SOIL - 10/11/2022 SE239041.093	WD2 SOIL - 10/11/2022 SE239041.094
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Endrin ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1
Total OC VIC EPA	mg/kg	1	<1	<1	<1	<1

OP Pesticides in Soil [AN420] Tested: 16/11/2022

PARAMETER	UOM	LOR	BH11(0.2m) SOIL - 7/11/2022 SE239041.001	BH12(0.7m) SOIL - 7/11/2022 SE239041.002	BH13(0.2m) SOIL - 7/11/2022 SE239041.003	BH14(0.2m) SOIL - 7/11/2022 SE239041.004	BH15(0.5m) SOIL - 7/11/2022 SE239041.005
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH16(0.2m) SOIL - 7/11/2022 SE239041.006	BH17(0.7m) SOIL - 7/11/2022 SE239041.007	BH18(0.2m) SOIL - 7/11/2022 SE239041.008	BH19(0.2m) SOIL - 7/11/2022 SE239041.009	BH20(0.2m) SOIL - 10/11/2022 SE239041.010
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH21(0.5m) SOIL - 7/11/2022 SE239041.011	BH22(0.2m) SOIL - 7/11/2022 SE239041.012	BH23(0.2m) SOIL - 10/11/2022 SE239041.013	BH24(0.2m) SOIL - 7/11/2022 SE239041.014	BH25(0.2m) SOIL - 7/11/2022 SE239041.015
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

OP Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH26(surface sample) SOIL - 7/11/2022 SE239041.016	BH27(0.2m) SOIL - 10/11/2022 SE239041.017	BH28(0.4m) SOIL - 7/11/2022 SE239041.018	BH29(0.5m) SOIL - 10/11/2022 SE239041.019	BH30(0.2m) SOIL - 9/11/2022 SE239041.020
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH31(0.2m) SOIL - 9/11/2022 SE239041.021	BH32(0.2m) SOIL - 8/11/2022 SE239041.022	BH33(0.2m) SOIL - 8/11/2022 SE239041.023	BH34(0.2m) SOIL - 8/11/2022 SE239041.024	BH35(0.2m) SOIL - 7/11/2022 SE239041.025
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH36(0.6m) SOIL - 7/11/2022 SE239041.026	BH37(0.6m) SOIL - 9/11/2022 SE239041.027	BH38(0.2m) SOIL - 9/11/2022 SE239041.028	BH39(0.2m) SOIL - 9/11/2022 SE239041.029	BH40(0.2m) SOIL - 7/11/2022 SE239041.030
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

OP Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH41(0.5m) SOIL - 7/11/2022 SE239041.031	BH42(0.2m) SOIL - 7/11/2022 SE239041.032	BH43(0.2m) SOIL - 9/11/2022 SE239041.033	BH44(0.2m) SOIL - 9/11/2022 SE239041.034	BH45(0.2m) SOIL - 9/11/2022 SE239041.035
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH46(0.2m) SOIL - 9/11/2022 SE239041.036	BH47(0.7m) SOIL - 8/11/2022 SE239041.037	BH48(0.1m) SOIL - 8/11/2022 SE239041.038	BH49(0.5m) SOIL - 8/11/2022 SE239041.039	BH50(0.2m) SOIL - 8/11/2022 SE239041.040
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH51(0.2m) SOIL - 8/11/2022 SE239041.041	BH52(0.7m) SOIL - 8/11/2022 SE239041.042	BH53(0.2m) SOIL - 8/11/2022 SE239041.043	BH54(0.2m) SOIL - 9/11/2022 SE239041.044	BH55(0.7m) SOIL - 9/11/2022 SE239041.045
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

OP Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH56(0.2m) SOIL - 9/11/2022 SE239041.046	BH57(0.2m) SOIL - 9/11/2022 SE239041.047	BH58(0.2m) SOIL - 9/11/2022 SE239041.048	BH59(0.2m) SOIL - 9/11/2022 SE239041.049	BH60(0.2m) SOIL - 9/11/2022 SE239041.050
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH61(0.5m) SOIL - 9/11/2022 SE239041.051	BH62(0.2m) SOIL - 9/11/2022 SE239041.052	BH63(0.2m) SOIL - 7/11/2022 SE239041.053	BH64(0.2m) SOIL - 8/11/2022 SE239041.054	BH65(0.9m) SOIL - 8/11/2022 SE239041.055
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH66(0.2m) SOIL - 8/11/2022 SE239041.056	BH67(0.2m) SOIL - 8/11/2022 SE239041.057	BH68(0.6m) SOIL - 8/11/2022 SE239041.058	BH69(0.2m) SOIL - 8/11/2022 SE239041.059	BH70(0.2m) SOIL - 8/11/2022 SE239041.060
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

OP Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH71(0.2m) SOIL - 8/11/2022 SE239041.061	BH72(0.8m) SOIL - 8/11/2022 SE239041.062	BH73(0.2m) SOIL - 8/11/2022 SE239041.063	BH74(0.2m) SOIL - 8/11/2022 SE239041.064	BH75(1.0m) SOIL - 8/11/2022 SE239041.065
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH76(0.2m) SOIL - 8/11/2022 SE239041.066	BH77(0.2m) SOIL - 8/11/2022 SE239041.067	BH78(0.2m) SOIL - 9/11/2022 SE239041.068	BH79(0.2m) SOIL - 9/11/2022 SE239041.069	BH80(0.6m) SOIL - 9/11/2022 SE239041.070
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH81(0.8m) SOIL - 9/11/2022 SE239041.071	BH82(0.2m) SOIL - 9/11/2022 SE239041.072	BH83(0.2m) SOIL - 9/11/2022 SE239041.073	BH84(0.1m) SOIL - 9/11/2022 SE239041.074	BH85(0.2m) SOIL - 9/11/2022 SE239041.075
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

OP Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH86(0.7m) SOIL - 9/11/2022 SE239041.076	BH87(0.8m) SOIL - 9/11/2022 SE239041.077	BH88(0.2m) SOIL - 9/11/2022 SE239041.078	BH89(0.2m) SOIL - 9/11/2022 SE239041.079	BH90(0.2m) SOIL - 9/11/2022 SE239041.080
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH91(1.0m) SOIL - 9/11/2022 SE239041.081	BH92(0.2m) SOIL - 9/11/2022 SE239041.082	BH93(0.2m) SOIL - 8/11/2022 SE239041.083	BH94(0.2m) SOIL - 8/11/2022 SE239041.084	BH95(0.2m) SOIL - 8/11/2022 SE239041.085
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH96(0.7m) SOIL - 8/11/2022 SE239041.086	BH97(0.2m) SOIL - 8/11/2022 SE239041.087	BH98(0.2m) SOIL - 8/11/2022 SE239041.088	BR1 SOIL - 7/11/2022 SE239041.089	BR2 SOIL - 8/11/2022 SE239041.090
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

OP Pesticides in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BR3 SOIL - 9/11/2022 SE239041.091	BR4 SOIL - 9/11/2022 SE239041.092	WD1 SOIL - 10/11/2022 SE239041.093	WD2 SOIL - 10/11/2022 SE239041.094
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7

PCBs in Soil [AN420] Tested: 16/11/2022

PARAMETER	UOM	LOR	BH11(0.2m) SOIL - 7/11/2022 SE239041.001	BH12(0.7m) SOIL - 7/11/2022 SE239041.002	BH13(0.2m) SOIL - 7/11/2022 SE239041.003	BH14(0.2m) SOIL - 7/11/2022 SE239041.004	BH15(0.5m) SOIL - 7/11/2022 SE239041.005
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH16(0.2m) SOIL - 7/11/2022 SE239041.006	BH17(0.7m) SOIL - 7/11/2022 SE239041.007	BH18(0.2m) SOIL - 7/11/2022 SE239041.008	BH19(0.2m) SOIL - 7/11/2022 SE239041.009	BH20(0.2m) SOIL - 10/11/2022 SE239041.010
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH21(0.5m) SOIL - 7/11/2022 SE239041.011	BH22(0.2m) SOIL - 7/11/2022 SE239041.012	BH23(0.2m) SOIL - 10/11/2022 SE239041.013	BH24(0.2m) SOIL - 7/11/2022 SE239041.014	BH25(0.2m) SOIL - 7/11/2022 SE239041.015
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH26(surface sample) SOIL - 7/11/2022 SE239041.016	BH27(0.2m) SOIL - 10/11/2022 SE239041.017	BH28(0.4m) SOIL - 7/11/2022 SE239041.018	BH29(0.5m) SOIL - 10/11/2022 SE239041.019	BH30(0.2m) SOIL - 9/11/2022 SE239041.020
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH31(0.2m) SOIL - 9/11/2022 SE239041.021	BH32(0.2m) SOIL - 8/11/2022 SE239041.022	BH33(0.2m) SOIL - 8/11/2022 SE239041.023	BH34(0.2m) SOIL - 8/11/2022 SE239041.024	BH35(0.2m) SOIL - 7/11/2022 SE239041.025
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH36(0.6m) SOIL - 7/11/2022 SE239041.026	BH37(0.6m) SOIL - 9/11/2022 SE239041.027	BH38(0.2m) SOIL - 9/11/2022 SE239041.028	BH39(0.2m) SOIL - 9/11/2022 SE239041.029	BH40(0.2m) SOIL - 7/11/2022 SE239041.030
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH41(0.5m) SOIL - 7/11/2022 SE239041.031	BH42(0.2m) SOIL - 7/11/2022 SE239041.032	BH43(0.2m) SOIL - 9/11/2022 SE239041.033	BH44(0.2m) SOIL - 9/11/2022 SE239041.034	BH45(0.2m) SOIL - 9/11/2022 SE239041.035
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH46(0.2m) SOIL - 9/11/2022 SE239041.036	BH47(0.7m) SOIL - 8/11/2022 SE239041.037	BH48(0.1m) SOIL - 8/11/2022 SE239041.038	BH49(0.5m) SOIL - 8/11/2022 SE239041.039	BH50(0.2m) SOIL - 8/11/2022 SE239041.040
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH51(0.2m) SOIL - 8/11/2022 SE239041.041	BH52(0.7m) SOIL - 8/11/2022 SE239041.042	BH53(0.2m) SOIL - 8/11/2022 SE239041.043	BH54(0.2m) SOIL - 9/11/2022 SE239041.044	BH55(0.7m) SOIL - 9/11/2022 SE239041.045
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH56(0.2m) SOIL - 9/11/2022 SE239041.046	BH57(0.2m) SOIL - 9/11/2022 SE239041.047	BH58(0.2m) SOIL - 9/11/2022 SE239041.048	BH59(0.2m) SOIL - 9/11/2022 SE239041.049	BH60(0.2m) SOIL - 9/11/2022 SE239041.050
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH61(0.5m) SOIL - 9/11/2022 SE239041.051	BH62(0.2m) SOIL - 9/11/2022 SE239041.052	BH63(0.2m) SOIL - 7/11/2022 SE239041.053	BH64(0.2m) SOIL - 8/11/2022 SE239041.054	BH65(0.9m) SOIL - 8/11/2022 SE239041.055
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH66(0.2m) SOIL - 8/11/2022 SE239041.056	BH67(0.2m) SOIL - 8/11/2022 SE239041.057	BH68(0.6m) SOIL - 8/11/2022 SE239041.058	BH69(0.2m) SOIL - 8/11/2022 SE239041.059	BH70(0.2m) SOIL - 8/11/2022 SE239041.060
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH71(0.2m) SOIL - 8/11/2022 SE239041.061	BH72(0.8m) SOIL - 8/11/2022 SE239041.062	BH73(0.2m) SOIL - 8/11/2022 SE239041.063	BH74(0.2m) SOIL - 8/11/2022 SE239041.064	BH75(1.0m) SOIL - 8/11/2022 SE239041.065
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH76(0.2m) SOIL - 8/11/2022 SE239041.066	BH77(0.2m) SOIL - 8/11/2022 SE239041.067	BH78(0.2m) SOIL - 9/11/2022 SE239041.068	BH79(0.2m) SOIL - 9/11/2022 SE239041.069	BH80(0.6m) SOIL - 9/11/2022 SE239041.070
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH81(0.8m) SOIL - 9/11/2022 SE239041.071	BH82(0.2m) SOIL - 9/11/2022 SE239041.072	BH83(0.2m) SOIL - 9/11/2022 SE239041.073	BH84(0.1m) SOIL - 9/11/2022 SE239041.074	BH85(0.2m) SOIL - 9/11/2022 SE239041.075
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH86(0.7m) SOIL - 9/11/2022 SE239041.076	BH87(0.8m) SOIL - 9/11/2022 SE239041.077	BH88(0.2m) SOIL - 9/11/2022 SE239041.078	BH89(0.2m) SOIL - 9/11/2022 SE239041.079	BH90(0.2m) SOIL - 9/11/2022 SE239041.080
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH91(1.0m) SOIL - 9/11/2022 SE239041.081	BH92(0.2m) SOIL - 9/11/2022 SE239041.082	BH93(0.2m) SOIL - 8/11/2022 SE239041.083	BH94(0.2m) SOIL - 8/11/2022 SE239041.084	BH95(0.2m) SOIL - 8/11/2022 SE239041.085
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PARAMETER	UOM	LOR	BH96(0.7m) SOIL - 8/11/2022 SE239041.086	BH97(0.2m) SOIL - 8/11/2022 SE239041.087	BH98(0.2m) SOIL - 8/11/2022 SE239041.088	BR1 SOIL - 7/11/2022 SE239041.089	BR2 SOIL - 8/11/2022 SE239041.090
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1	<1

PCBs in Soil [AN420] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BR3 SOIL - 9/11/2022 SE239041.091	BR4 SOIL - 9/11/2022 SE239041.092	WD1 SOIL - 10/11/2022 SE239041.093	WD2 SOIL - 10/11/2022 SE239041.094
Arochlor 1016	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1221	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1232	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1242	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1248	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1254	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1260	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1262	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Arochlor 1268	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
Total PCBs (Arochlors)	mg/kg	1	<1	<1	<1	<1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 18/11/2022

PARAMETER	UOM	LOR	BH11(0.2m) SOIL - 7/11/2022 SE239041.001	BH12(0.7m) SOIL - 7/11/2022 SE239041.002	BH13(0.2m) SOIL - 7/11/2022 SE239041.003	BH14(0.2m) SOIL - 7/11/2022 SE239041.004	BH15(0.5m) SOIL - 7/11/2022 SE239041.005
Arsenic, As	mg/kg	1	4	1	4	2	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	89	93	140	130	120
Copper, Cu	mg/kg	0.5	5.8	43	30	30	38
Lead, Pb	mg/kg	1	16	2	14	6	3
Nickel, Ni	mg/kg	0.5	8.7	69	53	89	170
Zinc, Zn	mg/kg	2	7.5	41	30	33	38

PARAMETER	UOM	LOR	BH16(0.2m) SOIL - 7/11/2022 SE239041.006	BH17(0.7m) SOIL - 7/11/2022 SE239041.007	BH18(0.2m) SOIL - 7/11/2022 SE239041.008	BH19(0.2m) SOIL - 7/11/2022 SE239041.009	BH20(0.2m) SOIL - 10/11/2022 SE239041.010
Arsenic, As	mg/kg	1	3	1	3	3	10
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	0.4
Chromium, Cr	mg/kg	0.5	110	78	91	110	75
Copper, Cu	mg/kg	0.5	31	1100	13	46	13
Lead, Pb	mg/kg	1	11	2	12	8	29
Nickel, Ni	mg/kg	0.5	62	79	21	85	13
Zinc, Zn	mg/kg	2	22	42	13	55	43

PARAMETER	UOM	LOR	BH21(0.5m) SOIL - 7/11/2022 SE239041.011	BH22(0.2m) SOIL - 7/11/2022 SE239041.012	BH23(0.2m) SOIL - 10/11/2022 SE239041.013	BH24(0.2m) SOIL - 7/11/2022 SE239041.014	BH25(0.2m) SOIL - 7/11/2022 SE239041.015
Arsenic, As	mg/kg	1	<1	2	23	3	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	310	95	53	95	92
Copper, Cu	mg/kg	0.5	15	22	72	24	18
Lead, Pb	mg/kg	1	1	11	20	9	10
Nickel, Ni	mg/kg	0.5	140	55	27	60	44
Zinc, Zn	mg/kg	2	65	31	79	50	50

PARAMETER	UOM	LOR	BH26(surface sample) SOIL - 7/11/2022 SE239041.016	BH27(0.2m) SOIL - 10/11/2022 SE239041.017	BH28(0.4m) SOIL - 7/11/2022 SE239041.018	BH29(0.5m) SOIL - 10/11/2022 SE239041.019	BH30(0.2m) SOIL - 9/11/2022 SE239041.020
Arsenic, As	mg/kg	1	1	3	2	3	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	21	110	120	64	93
Copper, Cu	mg/kg	0.5	5.0	34	26	20	27
Lead, Pb	mg/kg	1	9	18	3	13	9
Nickel, Ni	mg/kg	0.5	6.5	68	64	34	48
Zinc, Zn	mg/kg	2	24	100	28	30	71

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 18/11/2022 (continued)

PARAMETER	UOM	LOR	BH31(0.2m) SOIL - 9/11/2022 SE239041.021	BH32(0.2m) SOIL - 8/11/2022 SE239041.022	BH33(0.2m) SOIL - 8/11/2022 SE239041.023	BH34(0.2m) SOIL - 8/11/2022 SE239041.024	BH35(0.2m) SOIL - 7/11/2022 SE239041.025
Arsenic, As	mg/kg	1	<1	7	3	2	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	110	45	150	35	47
Copper, Cu	mg/kg	0.5	27	11	54	2.2	3.5
Lead, Pb	mg/kg	1	5	14	5	12	13
Nickel, Ni	mg/kg	0.5	62	8.7	160	2.6	3.4
Zinc, Zn	mg/kg	2	49	10	52	5.1	9.4

PARAMETER	UOM	LOR	BH36(0.6m) SOIL - 7/11/2022 SE239041.026	BH37(0.6m) SOIL - 9/11/2022 SE239041.027	BH38(0.2m) SOIL - 9/11/2022 SE239041.028	BH39(0.2m) SOIL - 9/11/2022 SE239041.029	BH40(0.2m) SOIL - 7/11/2022 SE239041.030
Arsenic, As	mg/kg	1	4	4	6	3	<1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	46	40	39	38	140
Copper, Cu	mg/kg	0.5	7.9	10	13	11	23
Lead, Pb	mg/kg	1	27	19	17	14	3
Nickel, Ni	mg/kg	0.5	4.7	6.3	8.1	7.8	95
Zinc, Zn	mg/kg	2	11	11	80	12	42

PARAMETER	UOM	LOR	BH41(0.5m) SOIL - 7/11/2022 SE239041.031	BH42(0.2m) SOIL - 7/11/2022 SE239041.032	BH43(0.2m) SOIL - 9/11/2022 SE239041.033	BH44(0.2m) SOIL - 9/11/2022 SE239041.034	BH45(0.2m) SOIL - 9/11/2022 SE239041.035
Arsenic, As	mg/kg	1	2	2	2	3	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	110	71	95	52	80
Copper, Cu	mg/kg	0.5	34	18	28	20	19
Lead, Pb	mg/kg	1	6	8	10	12	9
Nickel, Ni	mg/kg	0.5	110	33	81	38	40
Zinc, Zn	mg/kg	2	34	37	33	28	28

PARAMETER	UOM	LOR	BH46(0.2m) SOIL - 9/11/2022 SE239041.036	BH47(0.7m) SOIL - 8/11/2022 SE239041.037	BH48(0.1m) SOIL - 8/11/2022 SE239041.038	BH49(0.5m) SOIL - 8/11/2022 SE239041.039	BH50(0.2m) SOIL - 8/11/2022 SE239041.040
Arsenic, As	mg/kg	1	2	3	3	3	3
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	84	15	33	4.8	16
Copper, Cu	mg/kg	0.5	20	5.6	1.9	2.0	2.0
Lead, Pb	mg/kg	1	12	10	12	7	15
Nickel, Ni	mg/kg	0.5	30	4.0	1.9	1.1	1.4
Zinc, Zn	mg/kg	2	52	9.0	4.2	8.6	6.3

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 18/11/2022 (continued)

PARAMETER	UOM	LOR	BH51(0.2m) SOIL - 8/11/2022 SE239041.041	BH52(0.7m) SOIL - 8/11/2022 SE239041.042	BH53(0.2m) SOIL - 8/11/2022 SE239041.043	BH54(0.2m) SOIL - 9/11/2022 SE239041.044	BH55(0.7m) SOIL - 9/11/2022 SE239041.045
Arsenic, As	mg/kg	1	6	5	4	2	<1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	91	20	13	110	37
Copper, Cu	mg/kg	0.5	3.7	10	5.3	35	19
Lead, Pb	mg/kg	1	25	15	16	8	<1
Nickel, Ni	mg/kg	0.5	4.9	6.1	2.4	76	97
Zinc, Zn	mg/kg	2	12	11	12	40	39

PARAMETER	UOM	LOR	BH56(0.2m) SOIL - 9/11/2022 SE239041.046	BH57(0.2m) SOIL - 9/11/2022 SE239041.047	BH58(0.2m) SOIL - 9/11/2022 SE239041.048	BH59(0.2m) SOIL - 9/11/2022 SE239041.049	BH60(0.2m) SOIL - 9/11/2022 SE239041.050
Arsenic, As	mg/kg	1	2	1	3	1	<1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	61	130	110	250	170
Copper, Cu	mg/kg	0.5	21	28	18	56	26
Lead, Pb	mg/kg	1	8	7	11	6	2
Nickel, Ni	mg/kg	0.5	43	76	55	210	91
Zinc, Zn	mg/kg	2	36	46	27	56	40

PARAMETER	UOM	LOR	BH61(0.5m) SOIL - 9/11/2022 SE239041.051	BH62(0.2m) SOIL - 9/11/2022 SE239041.052	BH63(0.2m) SOIL - 7/11/2022 SE239041.053	BH64(0.2m) SOIL - 8/11/2022 SE239041.054	BH65(0.9m) SOIL - 8/11/2022 SE239041.055
Arsenic, As	mg/kg	1	1	1	4	13	24
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	85	140	100	170	59
Copper, Cu	mg/kg	0.5	30	36	6.0	6.0	28
Lead, Pb	mg/kg	1	3	5	17	39	20
Nickel, Ni	mg/kg	0.5	82	100	7.6	8.3	42
Zinc, Zn	mg/kg	2	39	49	13	16	48

PARAMETER	UOM	LOR	BH66(0.2m) SOIL - 8/11/2022 SE239041.056	BH67(0.2m) SOIL - 8/11/2022 SE239041.057	BH68(0.6m) SOIL - 8/11/2022 SE239041.058	BH69(0.2m) SOIL - 8/11/2022 SE239041.059	BH70(0.2m) SOIL - 8/11/2022 SE239041.060
Arsenic, As	mg/kg	1	4	3	4	4	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	66	87	130	30	21
Copper, Cu	mg/kg	0.5	3.0	28	24	5.9	2.4
Lead, Pb	mg/kg	1	17	8	3	14	14
Nickel, Ni	mg/kg	0.5	3.7	68	71	2.8	1.5
Zinc, Zn	mg/kg	2	8.4	25	32	22	6.0

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 18/11/2022 (continued)

PARAMETER	UOM	LOR	BH71(0.2m) SOIL - 8/11/2022 SE239041.061	BH72(0.8m) SOIL - 8/11/2022 SE239041.062	BH73(0.2m) SOIL - 8/11/2022 SE239041.063	BH74(0.2m) SOIL - 8/11/2022 SE239041.064	BH75(1.0m) SOIL - 8/11/2022 SE239041.065
Arsenic, As	mg/kg	1	5	2	3	9	6
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	59	18	48	64	3.9
Copper, Cu	mg/kg	0.5	3.5	10	3.4	1.3	4.8
Lead, Pb	mg/kg	1	34	13	18	36	26
Nickel, Ni	mg/kg	0.5	3.0	7.0	2.5	2.5	37
Zinc, Zn	mg/kg	2	6.6	9.1	5.1	9.7	41

PARAMETER	UOM	LOR	BH76(0.2m) SOIL - 8/11/2022 SE239041.066	BH77(0.2m) SOIL - 8/11/2022 SE239041.067	BH78(0.2m) SOIL - 9/11/2022 SE239041.068	BH79(0.2m) SOIL - 9/11/2022 SE239041.069	BH80(0.6m) SOIL - 9/11/2022 SE239041.070
Arsenic, As	mg/kg	1	6	5	4	7	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	52	37	49	29	41
Copper, Cu	mg/kg	0.5	5.2	6.0	3.6	3.6	20
Lead, Pb	mg/kg	1	15	17	18	16	15
Nickel, Ni	mg/kg	0.5	3.0	3.8	2.0	2.5	12
Zinc, Zn	mg/kg	2	17	10	6.9	13	14

PARAMETER	UOM	LOR	BH81(0.8m) SOIL - 9/11/2022 SE239041.071	BH82(0.2m) SOIL - 9/11/2022 SE239041.072	BH83(0.2m) SOIL - 9/11/2022 SE239041.073	BH84(0.1m) SOIL - 9/11/2022 SE239041.074	BH85(0.2m) SOIL - 9/11/2022 SE239041.075
Arsenic, As	mg/kg	1	4	4	5	6	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	28	60	67	110	60
Copper, Cu	mg/kg	0.5	23	6.0	10	6.9	8.1
Lead, Pb	mg/kg	1	16	14	21	30	28
Nickel, Ni	mg/kg	0.5	12	3.5	7.1	4.9	4.8
Zinc, Zn	mg/kg	2	21	9.2	12	18	18

PARAMETER	UOM	LOR	BH86(0.7m) SOIL - 9/11/2022 SE239041.076	BH87(0.8m) SOIL - 9/11/2022 SE239041.077	BH88(0.2m) SOIL - 9/11/2022 SE239041.078	BH89(0.2m) SOIL - 9/11/2022 SE239041.079	BH90(0.2m) SOIL - 9/11/2022 SE239041.080
Arsenic, As	mg/kg	1	3	4	6	8	22
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	12	25	66	28	20
Copper, Cu	mg/kg	0.5	9.4	20	7.8	2.3	4.1
Lead, Pb	mg/kg	1	6	10	21	16	15
Nickel, Ni	mg/kg	0.5	5.6	7.0	4.5	2.1	1.9
Zinc, Zn	mg/kg	2	8.9	17	12	4.2	5.5

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 18/11/2022 (continued)

PARAMETER	UOM	LOR	BH91(1.0m) SOIL - 9/11/2022 SE239041.081	BH92(0.2m) SOIL - 9/11/2022 SE239041.082	BH93(0.2m) SOIL - 8/11/2022 SE239041.083	BH94(0.2m) SOIL - 8/11/2022 SE239041.084	BH95(0.2m) SOIL - 8/11/2022 SE239041.085
Arsenic, As	mg/kg	1	<1	6	4	6	4
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	110	42	44	100	18
Copper, Cu	mg/kg	0.5	22	3.0	3.4	7.2	3.1
Lead, Pb	mg/kg	1	3	18	19	23	16
Nickel, Ni	mg/kg	0.5	85	2.7	3.0	6.3	2.0
Zinc, Zn	mg/kg	2	25	9.9	9.3	11	8.4

PARAMETER	UOM	LOR	BH96(0.7m) SOIL - 8/11/2022 SE239041.086	BH97(0.2m) SOIL - 8/11/2022 SE239041.087	BH98(0.2m) SOIL - 8/11/2022 SE239041.088	BR1 SOIL - 7/11/2022 SE239041.089	BR2 SOIL - 8/11/2022 SE239041.090
Arsenic, As	mg/kg	1	6	5	6	4	5
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	67	59	69	100	48
Copper, Cu	mg/kg	0.5	16	2.4	2.8	19	2.5
Lead, Pb	mg/kg	1	15	27	23	20	27
Nickel, Ni	mg/kg	0.5	16	2.2	2.7	38	2.2
Zinc, Zn	mg/kg	2	18	8.1	8.6	28	7.9

PARAMETER	UOM	LOR	BR3 SOIL - 9/11/2022 SE239041.091	BR4 SOIL - 9/11/2022 SE239041.092	WD1 SOIL - 10/11/2022 SE239041.093	WD2 SOIL - 10/11/2022 SE239041.094	TRIP BLANK SOIL - 10/11/2022 SE239041.098
Arsenic, As	mg/kg	1	2	5	3	2	<1
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	110	35	70	39	<0.5
Copper, Cu	mg/kg	0.5	38	3.3	16	6.4	<0.5
Lead, Pb	mg/kg	1	9	18	14	14	<1
Nickel, Ni	mg/kg	0.5	83	3.0	24	2.8	<0.5
Zinc, Zn	mg/kg	2	42	11	34	11	<2.0

Mercury in Soil [AN312] Tested: 18/11/2022

PARAMETER	UOM	LOR	BH11(0.2m) SOIL - 7/11/2022 SE239041.001	BH12(0.7m) SOIL - 7/11/2022 SE239041.002	BH13(0.2m) SOIL - 7/11/2022 SE239041.003	BH14(0.2m) SOIL - 7/11/2022 SE239041.004	BH15(0.5m) SOIL - 7/11/2022 SE239041.005
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH16(0.2m) SOIL - 7/11/2022 SE239041.006	BH17(0.7m) SOIL - 7/11/2022 SE239041.007	BH18(0.2m) SOIL - 7/11/2022 SE239041.008	BH19(0.2m) SOIL - 7/11/2022 SE239041.009	BH20(0.2m) SOIL - 10/11/2022 SE239041.010
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH21(0.5m) SOIL - 7/11/2022 SE239041.011	BH22(0.2m) SOIL - 7/11/2022 SE239041.012	BH23(0.2m) SOIL - 10/11/2022 SE239041.013	BH24(0.2m) SOIL - 7/11/2022 SE239041.014	BH25(0.2m) SOIL - 7/11/2022 SE239041.015
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH26(surface sample) SOIL - 7/11/2022 SE239041.016	BH27(0.2m) SOIL - 10/11/2022 SE239041.017	BH28(0.4m) SOIL - 7/11/2022 SE239041.018	BH29(0.5m) SOIL - 10/11/2022 SE239041.019	BH30(0.2m) SOIL - 9/11/2022 SE239041.020
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH31(0.2m) SOIL - 9/11/2022 SE239041.021	BH32(0.2m) SOIL - 8/11/2022 SE239041.022	BH33(0.2m) SOIL - 8/11/2022 SE239041.023	BH34(0.2m) SOIL - 8/11/2022 SE239041.024	BH35(0.2m) SOIL - 7/11/2022 SE239041.025
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH36(0.6m) SOIL - 7/11/2022 SE239041.026	BH37(0.6m) SOIL - 9/11/2022 SE239041.027	BH38(0.2m) SOIL - 9/11/2022 SE239041.028	BH39(0.2m) SOIL - 9/11/2022 SE239041.029	BH40(0.2m) SOIL - 7/11/2022 SE239041.030
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH41(0.5m) SOIL - 7/11/2022 SE239041.031	BH42(0.2m) SOIL - 7/11/2022 SE239041.032	BH43(0.2m) SOIL - 9/11/2022 SE239041.033	BH44(0.2m) SOIL - 9/11/2022 SE239041.034	BH45(0.2m) SOIL - 9/11/2022 SE239041.035
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Mercury in Soil [AN312] Tested: 18/11/2022 (continued)

PARAMETER	UOM	LOR	BH46(0.2m) SOIL - 9/11/2022 SE239041.036	BH47(0.7m) SOIL - 8/11/2022 SE239041.037	BH48(0.1m) SOIL - 8/11/2022 SE239041.038	BH49(0.5m) SOIL - 8/11/2022 SE239041.039	BH50(0.2m) SOIL - 8/11/2022 SE239041.040
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	**0.06**	<0.05

PARAMETER	UOM	LOR	BH51(0.2m) SOIL - 8/11/2022 SE239041.041	BH52(0.7m) SOIL - 8/11/2022 SE239041.042	BH53(0.2m) SOIL - 8/11/2022 SE239041.043	BH54(0.2m) SOIL - 9/11/2022 SE239041.044	BH55(0.7m) SOIL - 9/11/2022 SE239041.045
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH56(0.2m) SOIL - 9/11/2022 SE239041.046	BH57(0.2m) SOIL - 9/11/2022 SE239041.047	BH58(0.2m) SOIL - 9/11/2022 SE239041.048	BH59(0.2m) SOIL - 9/11/2022 SE239041.049	BH60(0.2m) SOIL - 9/11/2022 SE239041.050
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH61(0.5m) SOIL - 9/11/2022 SE239041.051	BH62(0.2m) SOIL - 9/11/2022 SE239041.052	BH63(0.2m) SOIL - 7/11/2022 SE239041.053	BH64(0.2m) SOIL - 8/11/2022 SE239041.054	BH65(0.9m) SOIL - 8/11/2022 SE239041.055
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	**0.05**	<0.05

PARAMETER	UOM	LOR	BH66(0.2m) SOIL - 8/11/2022 SE239041.056	BH67(0.2m) SOIL - 8/11/2022 SE239041.057	BH68(0.6m) SOIL - 8/11/2022 SE239041.058	BH69(0.2m) SOIL - 8/11/2022 SE239041.059	BH70(0.2m) SOIL - 8/11/2022 SE239041.060
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH71(0.2m) SOIL - 8/11/2022 SE239041.061	BH72(0.8m) SOIL - 8/11/2022 SE239041.062	BH73(0.2m) SOIL - 8/11/2022 SE239041.063	BH74(0.2m) SOIL - 8/11/2022 SE239041.064	BH75(1.0m) SOIL - 8/11/2022 SE239041.065
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH76(0.2m) SOIL - 8/11/2022 SE239041.066	BH77(0.2m) SOIL - 8/11/2022 SE239041.067	BH78(0.2m) SOIL - 9/11/2022 SE239041.068	BH79(0.2m) SOIL - 9/11/2022 SE239041.069	BH80(0.6m) SOIL - 9/11/2022 SE239041.070
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Mercury in Soil [AN312] Tested: 18/11/2022 (continued)

PARAMETER	UOM	LOR	BH81(0.8m) SOIL - 9/11/2022 SE239041.071	BH82(0.2m) SOIL - 9/11/2022 SE239041.072	BH83(0.2m) SOIL - 9/11/2022 SE239041.073	BH84(0.1m) SOIL - 9/11/2022 SE239041.074	BH85(0.2m) SOIL - 9/11/2022 SE239041.075
Mercury	mg/kg	0.05	0.09	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH86(0.7m) SOIL - 9/11/2022 SE239041.076	BH87(0.8m) SOIL - 9/11/2022 SE239041.077	BH88(0.2m) SOIL - 9/11/2022 SE239041.078	BH89(0.2m) SOIL - 9/11/2022 SE239041.079	BH90(0.2m) SOIL - 9/11/2022 SE239041.080
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH91(1.0m) SOIL - 9/11/2022 SE239041.081	BH92(0.2m) SOIL - 9/11/2022 SE239041.082	BH93(0.2m) SOIL - 8/11/2022 SE239041.083	BH94(0.2m) SOIL - 8/11/2022 SE239041.084	BH95(0.2m) SOIL - 8/11/2022 SE239041.085
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH96(0.7m) SOIL - 8/11/2022 SE239041.086	BH97(0.2m) SOIL - 8/11/2022 SE239041.087	BH98(0.2m) SOIL - 8/11/2022 SE239041.088	BR1 SOIL - 7/11/2022 SE239041.089	BR2 SOIL - 8/11/2022 SE239041.090
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BR3 SOIL - 9/11/2022 SE239041.091	BR4 SOIL - 9/11/2022 SE239041.092	WD1 SOIL - 10/11/2022 SE239041.093	WD2 SOIL - 10/11/2022 SE239041.094	TRIP BLANK SOIL - 10/11/2022 SE239041.098
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Moisture Content [AN002] Tested: 16/11/2022

PARAMETER	UOM	LOR	BH11(0.2m) SOIL - 7/11/2022 SE239041.001	BH12(0.7m) SOIL - 7/11/2022 SE239041.002	BH13(0.2m) SOIL - 7/11/2022 SE239041.003	BH14(0.2m) SOIL - 7/11/2022 SE239041.004	BH15(0.5m) SOIL - 7/11/2022 SE239041.005
% Moisture	%w/w	1	18.1	30.9	19.7	20.7	23.0

PARAMETER	UOM	LOR	BH16(0.2m) SOIL - 7/11/2022 SE239041.006	BH17(0.7m) SOIL - 7/11/2022 SE239041.007	BH18(0.2m) SOIL - 7/11/2022 SE239041.008	BH19(0.2m) SOIL - 7/11/2022 SE239041.009	BH20(0.2m) SOIL - 10/11/2022 SE239041.010
% Moisture	%w/w	1	21.6	20.7	17.5	25.2	13.5

PARAMETER	UOM	LOR	BH21(0.5m) SOIL - 7/11/2022 SE239041.011	BH22(0.2m) SOIL - 7/11/2022 SE239041.012	BH23(0.2m) SOIL - 10/11/2022 SE239041.013	BH24(0.2m) SOIL - 7/11/2022 SE239041.014	BH25(0.2m) SOIL - 7/11/2022 SE239041.015
% Moisture	%w/w	1	18.8	19.2	19.2	21.3	17.8

PARAMETER	UOM	LOR	BH26(surface sample) SOIL - 7/11/2022 SE239041.016	BH27(0.2m) SOIL - 10/11/2022 SE239041.017	BH28(0.4m) SOIL - 7/11/2022 SE239041.018	BH29(0.5m) SOIL - 10/11/2022 SE239041.019	BH30(0.2m) SOIL - 9/11/2022 SE239041.020
% Moisture	%w/w	1	13.9	21.4	11.4	20.2	24.8

PARAMETER	UOM	LOR	BH31(0.2m) SOIL - 9/11/2022 SE239041.021	BH32(0.2m) SOIL - 8/11/2022 SE239041.022	BH33(0.2m) SOIL - 8/11/2022 SE239041.023	BH34(0.2m) SOIL - 8/11/2022 SE239041.024	BH35(0.2m) SOIL - 7/11/2022 SE239041.025
% Moisture	%w/w	1	20.4	22.6	53.8	23.1	15.1

PARAMETER	UOM	LOR	BH36(0.6m) SOIL - 7/11/2022 SE239041.026	BH37(0.6m) SOIL - 9/11/2022 SE239041.027	BH38(0.2m) SOIL - 9/11/2022 SE239041.028	BH39(0.2m) SOIL - 9/11/2022 SE239041.029	BH40(0.2m) SOIL - 7/11/2022 SE239041.030
% Moisture	%w/w	1	13.6	22.2	32.8	20.6	21.0

PARAMETER	UOM	LOR	BH41(0.5m) SOIL - 7/11/2022 SE239041.031	BH42(0.2m) SOIL - 7/11/2022 SE239041.032	BH43(0.2m) SOIL - 9/11/2022 SE239041.033	BH44(0.2m) SOIL - 9/11/2022 SE239041.034	BH45(0.2m) SOIL - 9/11/2022 SE239041.035
% Moisture	%w/w	1	24.6	25.7	23.9	25.2	23.4

Moisture Content [AN002] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH46(0.2m) SOIL - 9/11/2022 SE239041.036	BH47(0.7m) SOIL - 8/11/2022 SE239041.037	BH48(0.1m) SOIL - 8/11/2022 SE239041.038	BH49(0.5m) SOIL - 8/11/2022 SE239041.039	BH50(0.2m) SOIL - 8/11/2022 SE239041.040
% Moisture	%w/w	1	29.3	21.2	16.4	12.5	16.8

PARAMETER	UOM	LOR	BH51(0.2m) SOIL - 8/11/2022 SE239041.041	BH52(0.7m) SOIL - 8/11/2022 SE239041.042	BH53(0.2m) SOIL - 8/11/2022 SE239041.043	BH54(0.2m) SOIL - 9/11/2022 SE239041.044	BH55(0.7m) SOIL - 9/11/2022 SE239041.045
% Moisture	%w/w	1	24.5	21.1	25.7	22.0	7.1

PARAMETER	UOM	LOR	BH56(0.2m) SOIL - 9/11/2022 SE239041.046	BH57(0.2m) SOIL - 9/11/2022 SE239041.047	BH58(0.2m) SOIL - 9/11/2022 SE239041.048	BH59(0.2m) SOIL - 9/11/2022 SE239041.049	BH60(0.2m) SOIL - 9/11/2022 SE239041.050
% Moisture	%w/w	1	29.4	35.1	20.9	25.2	23.4

PARAMETER	UOM	LOR	BH61(0.5m) SOIL - 9/11/2022 SE239041.051	BH62(0.2m) SOIL - 9/11/2022 SE239041.052	BH63(0.2m) SOIL - 7/11/2022 SE239041.053	BH64(0.2m) SOIL - 8/11/2022 SE239041.054	BH65(0.9m) SOIL - 8/11/2022 SE239041.055
% Moisture	%w/w	1	20.4	20.2	25.0	36.3	23.6

PARAMETER	UOM	LOR	BH66(0.2m) SOIL - 8/11/2022 SE239041.056	BH67(0.2m) SOIL - 8/11/2022 SE239041.057	BH68(0.6m) SOIL - 8/11/2022 SE239041.058	BH69(0.2m) SOIL - 8/11/2022 SE239041.059	BH70(0.2m) SOIL - 8/11/2022 SE239041.060
% Moisture	%w/w	1	21.7	18.9	10.5	22.5	15.1

PARAMETER	UOM	LOR	BH71(0.2m) SOIL - 8/11/2022 SE239041.061	BH72(0.8m) SOIL - 8/11/2022 SE239041.062	BH73(0.2m) SOIL - 8/11/2022 SE239041.063	BH74(0.2m) SOIL - 8/11/2022 SE239041.064	BH75(1.0m) SOIL - 8/11/2022 SE239041.065
% Moisture	%w/w	1	15.4	18.2	17.7	12.8	11.0

PARAMETER	UOM	LOR	BH76(0.2m) SOIL - 8/11/2022 SE239041.066	BH77(0.2m) SOIL - 8/11/2022 SE239041.067	BH78(0.2m) SOIL - 9/11/2022 SE239041.068	BH79(0.2m) SOIL - 9/11/2022 SE239041.069	BH80(0.6m) SOIL - 9/11/2022 SE239041.070
% Moisture	%w/w	1	22.8	27.1	17.0	22.7	21.0

Moisture Content [AN002] Tested: 16/11/2022 (continued)

PARAMETER	UOM	LOR	BH81(0.8m) SOIL - 9/11/2022 SE239041.071	BH82(0.2m) SOIL - 9/11/2022 SE239041.072	BH83(0.2m) SOIL - 9/11/2022 SE239041.073	BH84(0.1m) SOIL - 9/11/2022 SE239041.074	BH85(0.2m) SOIL - 9/11/2022 SE239041.075
% Moisture	%w/w	1	20.3	22.0	18.2	21.4	17.9

PARAMETER	UOM	LOR	BH86(0.7m) SOIL - 9/11/2022 SE239041.076	BH87(0.8m) SOIL - 9/11/2022 SE239041.077	BH88(0.2m) SOIL - 9/11/2022 SE239041.078	BH89(0.2m) SOIL - 9/11/2022 SE239041.079	BH90(0.2m) SOIL - 9/11/2022 SE239041.080
% Moisture	%w/w	1	23.0	27.5	19.3	14.0	29.6

PARAMETER	UOM	LOR	BH91(1.0m) SOIL - 9/11/2022 SE239041.081	BH92(0.2m) SOIL - 9/11/2022 SE239041.082	BH93(0.2m) SOIL - 8/11/2022 SE239041.083	BH94(0.2m) SOIL - 8/11/2022 SE239041.084	BH95(0.2m) SOIL - 8/11/2022 SE239041.085
% Moisture	%w/w	1	4.2	16.0	16.0	18.9	13.0

PARAMETER	UOM	LOR	BH96(0.7m) SOIL - 8/11/2022 SE239041.086	BH97(0.2m) SOIL - 8/11/2022 SE239041.087	BH98(0.2m) SOIL - 8/11/2022 SE239041.088	BR1 SOIL - 7/11/2022 SE239041.089	BR2 SOIL - 8/11/2022 SE239041.090
% Moisture	%w/w	1	23.2	19.8	18.7	22.1	20.2

PARAMETER	UOM	LOR	BR3 SOIL - 9/11/2022 SE239041.091	BR4 SOIL - 9/11/2022 SE239041.092	WD1 SOIL - 10/11/2022 SE239041.093	WD2 SOIL - 10/11/2022 SE239041.094	TRIP BLANK SOIL - 10/11/2022 SE239041.098
% Moisture	%w/w	1	23.0	15.9	36.8	50.1	<1.0

VOCs in Water [AN433] Tested: 17/11/2022

PARAMETER	UOM	LOR	WD1 WATER - 10/11/2022 SE239041.095	WD2 WATER - 10/11/2022 SE239041.096	RIN WATER - 10/11/2022 SE239041.097
Benzene	µg/L	0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	**42**	**4.6**	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5
Total BTEX	µg/L	3	**42**	**5**	<3
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 17/11/2022

PARAMETER	UOM	LOR	WD1 WATER - 10/11/2022 SE239041.095	WD2 WATER - 10/11/2022 SE239041.096	RIN WATER - 10/11/2022 SE239041.097
TRH C6-C9	µg/L	40	**96**	<40	<40
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5
TRH C6-C10	µg/L	50	**98**	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	**56**	<50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 16/11/2022

PARAMETER	UOM	LOR	WD1 WATER - 10/11/2022 SE239041.095	WD2 WATER - 10/11/2022 SE239041.096	RIN WATER - 10/11/2022 SE239041.097
TRH C10-C14	µg/L	50	**240**	<50	<50
TRH C15-C28	µg/L	200	**960**	**210**	<200
TRH C29-C36	µg/L	200	**740**	**300**	<200
TRH C37-C40	µg/L	200	<200	<200	<200
TRH >C10-C16	µg/L	60	**280**	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	**280**	<60	<60
TRH >C16-C34 (F3)	µg/L	500	**1500**	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500
TRH C10-C40	µg/L	320	**2000**	**530**	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 16/11/2022

PARAMETER	UOM	LOR	WD1 WATER - 10/11/2022 SE239041.095	WD2 WATER - 10/11/2022 SE239041.096	RIN WATER - 10/11/2022 SE239041.097
Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1

OC Pesticides in Water [AN420] Tested: 16/11/2022

PARAMETER	UOM	LOR	WD1 WATER - 10/11/2022 SE239041.095	WD2 WATER - 10/11/2022 SE239041.096	RIN WATER - 10/11/2022 SE239041.097
Alpha BHC	µg/L	0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1	<0.1
Total OC	µg/L	1	<1	<1	<1
Total OC	µg/L	1	<1	<1	<1

OP Pesticides in Water [AN420] Tested: 16/11/2022

PARAMETER	UOM	LOR	WD1 WATER - 10/11/2022 SE239041.095	WD2 WATER - 10/11/2022 SE239041.096	RIN WATER - 10/11/2022 SE239041.097
Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2

PCBs in Water [AN420] Tested: 16/11/2022

PARAMETER	UOM	LOR	WD1 WATER - 10/11/2022 SE239041.095	WD2 WATER - 10/11/2022 SE239041.096	RIN WATER - 10/11/2022 SE239041.097
Arochlor 1016	µg/L	1	<1	<1	<1
Arochlor 1221	µg/L	1	<1	<1	<1
Arochlor 1232	µg/L	1	<1	<1	<1
Arochlor 1242	µg/L	1	<1	<1	<1
Arochlor 1248	µg/L	1	<1	<1	<1
Arochlor 1254	µg/L	1	<1	<1	<1
Arochlor 1260	µg/L	1	<1	<1	<1
Arochlor 1262	µg/L	1	<1	<1	<1
Arochlor 1268	µg/L	1	<1	<1	<1
Total Arochlors*	µg/L	5	<5	<5	<5

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 16/11/2022

PARAMETER	UOM	LOR	WD1 WATER - 10/11/2022 SE239041.095	WD2 WATER - 10/11/2022 SE239041.096	RIN WATER - 10/11/2022 SE239041.097
Arsenic	µg/L	1	**2**	**1**	<1
Cadmium	µg/L	0.1	<0.1	<0.1	<0.1
Chromium	µg/L	1	**3**	<1	<1
Copper	µg/L	1	**2**	**3**	<1
Lead	µg/L	1	<1	<1	<1
Nickel	µg/L	1	**7**	**3**	<1
Zinc	µg/L	5	<5	**16**	<5

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 16/11/2022

PARAMETER	UOM	LOR	WD1 WATER - 10/11/2022 SE239041.095	WD2 WATER - 10/11/2022 SE239041.096	RIN WATER - 10/11/2022 SE239041.097
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting.
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-qb/environment-health-and-safety.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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STATEMENT OF QA/QC PERFORMANCE

SE239041 R1

CLIENT DETAILS

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Address	SUITE 222, 20B LEXINGTON DRIVE BELLA VISTA NSW 2153
Telephone	61 8 00 523 000
Facsimile	(Not specified)
Email	kannan@k2consultinggroup.com.au
Project	**ST-01-1533 (515 Crookwell Road, Kingsdal**
Order Number	**ST-01-1533**
Samples	99

LABORATORY DETAILS

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Email	au.environmental.sydney@sgs.com
SGS Reference	**SE239041 R1**
Date Received	11 Nov 2022
Date Reported	23 Nov 2022

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Analysis Date	Moisture Content	76 items
	VOC's in Soil	52 items
	Volatile Petroleum Hydrocarbons in Soil	92 items
Surrogate	OC Pesticides in Water	1 item
	OP Pesticides in Water	1 item
	PAH (Polynuclear Aromatic Hydrocarbons) in Water	2 items
	PCBs in Water	1 item
	VOC's in Soil	1 item
	Volatile Petroleum Hydrocarbons in Soil	1 item
Duplicate	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	3 items
Matrix Spike	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	1 item
	Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES	3 items

SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	96 Soil, 3 Water
Date documentation received	14/11/2022@12:23p	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	14.6C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

HOLDING TIME SUMMARY

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SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury (dissolved) in Water — Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
WD1	SE239041.095	LB263955	10 Nov 2022	11 Nov 2022	08 Dec 2022	16 Nov 2022	08 Dec 2022	17 Nov 2022
WD2	SE239041.096	LB263955	10 Nov 2022	11 Nov 2022	08 Dec 2022	16 Nov 2022	08 Dec 2022	17 Nov 2022
RIN	SE239041.097	LB263955	10 Nov 2022	11 Nov 2022	08 Dec 2022	16 Nov 2022	08 Dec 2022	17 Nov 2022

Mercury in Soil — Method: ME-(AU)-[ENV]AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11(0.2m)	SE239041.001	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH12(0.7m)	SE239041.002	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH13(0.2m)	SE239041.003	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH14(0.2m)	SE239041.004	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH15(0.5m)	SE239041.005	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH16(0.2m)	SE239041.006	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH17(0.7m)	SE239041.007	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH18(0.2m)	SE239041.008	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH19(0.2m)	SE239041.009	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH20(0.2m)	SE239041.010	LB264256	10 Nov 2022	11 Nov 2022	08 Dec 2022	18 Nov 2022	08 Dec 2022	22 Nov 2022
BH21(0.5m)	SE239041.011	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH22(0.2m)	SE239041.012	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH23(0.2m)	SE239041.013	LB264256	10 Nov 2022	11 Nov 2022	08 Dec 2022	18 Nov 2022	08 Dec 2022	22 Nov 2022
BH24(0.2m)	SE239041.014	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH25(0.2m)	SE239041.015	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH26(surface sample)	SE239041.016	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH27(0.2m)	SE239041.017	LB264256	10 Nov 2022	11 Nov 2022	08 Dec 2022	18 Nov 2022	08 Dec 2022	22 Nov 2022
BH28(0.4m)	SE239041.018	LB264256	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH29(0.5m)	SE239041.019	LB264256	10 Nov 2022	11 Nov 2022	08 Dec 2022	18 Nov 2022	08 Dec 2022	22 Nov 2022
BH30(0.2m)	SE239041.020	LB264257	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH31(0.2m)	SE239041.021	LB264257	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH32(0.2m)	SE239041.022	LB264257	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH33(0.2m)	SE239041.023	LB264257	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH34(0.2m)	SE239041.024	LB264257	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH35(0.2m)	SE239041.025	LB264257	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH36(0.6m)	SE239041.026	LB264257	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH37(0.6m)	SE239041.027	LB264257	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH38(0.2m)	SE239041.028	LB264257	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH39(0.2m)	SE239041.029	LB264257	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH40(0.2m)	SE239041.030	LB264257	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH41(0.5m)	SE239041.031	LB264257	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH42(0.2m)	SE239041.032	LB264257	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH43(0.2m)	SE239041.033	LB264257	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH44(0.2m)	SE239041.034	LB264257	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH45(0.2m)	SE239041.035	LB264257	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH46(0.2m)	SE239041.036	LB264257	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH47(0.7m)	SE239041.037	LB264257	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH48(0.1m)	SE239041.038	LB264257	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH49(0.5m)	SE239041.039	LB264259	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH50(0.2m)	SE239041.040	LB264259	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH51(0.2m)	SE239041.041	LB264259	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH52(0.7m)	SE239041.042	LB264259	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH53(0.2m)	SE239041.043	LB264259	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH54(0.2m)	SE239041.044	LB264259	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH55(0.7m)	SE239041.045	LB264259	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH56(0.2m)	SE239041.046	LB264259	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH57(0.2m)	SE239041.047	LB264259	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH58(0.2m)	SE239041.048	LB264259	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH59(0.2m)	SE239041.049	LB264259	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH60(0.2m)	SE239041.050	LB264259	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH61(0.5m)	SE239041.051	LB264259	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH62(0.2m)	SE239041.052	LB264259	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH63(0.2m)	SE239041.053	LB264259	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BH64(0.2m)	SE239041.054	LB264259	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022

HOLDING TIME SUMMARY

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Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury in Soil (continued)

Method: ME-(AU)-[ENV]AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH65(0.9m)	SE239041.055	LB264259	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH66(0.2m)	SE239041.056	LB264259	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH67(0.2m)	SE239041.057	LB264259	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH68(0.6m)	SE239041.058	LB264260	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH69(0.2m)	SE239041.059	LB264260	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH70(0.2m)	SE239041.060	LB264260	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH71(0.2m)	SE239041.061	LB264260	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH72(0.8m)	SE239041.062	LB264260	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH73(0.2m)	SE239041.063	LB264260	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH74(0.2m)	SE239041.064	LB264260	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH75(1.0m)	SE239041.065	LB264260	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH76(0.2m)	SE239041.066	LB264260	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH77(0.2m)	SE239041.067	LB264260	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH78(0.2m)	SE239041.068	LB264260	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH79(0.2m)	SE239041.069	LB264260	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH80(0.6m)	SE239041.070	LB264260	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH81(0.8m)	SE239041.071	LB264260	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH82(0.2m)	SE239041.072	LB264260	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH83(0.2m)	SE239041.073	LB264260	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH84(0.1m)	SE239041.074	LB264260	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH85(0.2m)	SE239041.075	LB264260	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH86(0.7m)	SE239041.076	LB264260	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH87(0.8m)	SE239041.077	LB264261	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH88(0.2m)	SE239041.078	LB264261	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH89(0.2m)	SE239041.079	LB264261	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH90(0.2m)	SE239041.080	LB264261	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH91(1.0m)	SE239041.081	LB264261	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH92(0.2m)	SE239041.082	LB264261	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BH93(0.2m)	SE239041.083	LB264261	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH94(0.2m)	SE239041.084	LB264261	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH95(0.2m)	SE239041.085	LB264261	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH96(0.7m)	SE239041.086	LB264261	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH97(0.2m)	SE239041.087	LB264261	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BH98(0.2m)	SE239041.088	LB264261	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BR1	SE239041.089	LB264261	07 Nov 2022	11 Nov 2022	05 Dec 2022	18 Nov 2022	05 Dec 2022	22 Nov 2022
BR2	SE239041.090	LB264261	08 Nov 2022	11 Nov 2022	06 Dec 2022	18 Nov 2022	06 Dec 2022	22 Nov 2022
BR3	SE239041.091	LB264261	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
BR4	SE239041.092	LB264261	09 Nov 2022	11 Nov 2022	07 Dec 2022	18 Nov 2022	07 Dec 2022	22 Nov 2022
WD1	SE239041.093	LB264261	10 Nov 2022	11 Nov 2022	08 Dec 2022	18 Nov 2022	08 Dec 2022	22 Nov 2022
WD2	SE239041.094	LB264261	10 Nov 2022	11 Nov 2022	08 Dec 2022	18 Nov 2022	08 Dec 2022	22 Nov 2022
TRIP BLANK	SE239041.098	LB264261	10 Nov 2022	11 Nov 2022	08 Dec 2022	18 Nov 2022	08 Dec 2022	22 Nov 2022

Moisture Content

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11(0.2m)	SE239041.001	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH12(0.7m)	SE239041.002	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH13(0.2m)	SE239041.003	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH14(0.2m)	SE239041.004	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH15(0.5m)	SE239041.005	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH16(0.2m)	SE239041.006	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH17(0.7m)	SE239041.007	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH18(0.2m)	SE239041.008	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH19(0.2m)	SE239041.009	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH20(0.2m)	SE239041.010	LB264044	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH21(0.5m)	SE239041.011	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH22(0.2m)	SE239041.012	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH23(0.2m)	SE239041.013	LB264044	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH24(0.2m)	SE239041.014	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH25(0.2m)	SE239041.015	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH26(surface sample)	SE239041.016	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Moisture Content (continued) — **Method: ME-(AU)-[ENV]AN002**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH27(0.2m)	SE239041.017	LB264044	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH28(0.4m)	SE239041.018	LB264044	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH29(0.5m)	SE239041.019	LB264044	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	21 Nov 2022	21 Nov 2022
BH30(0.2m)	SE239041.020	LB264048	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH31(0.2m)	SE239041.021	LB264048	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH32(0.2m)	SE239041.022	LB264048	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH33(0.2m)	SE239041.023	LB264048	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH34(0.2m)	SE239041.024	LB264048	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH35(0.2m)	SE239041.025	LB264048	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH36(0.6m)	SE239041.026	LB264048	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH37(0.6m)	SE239041.027	LB264048	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH38(0.2m)	SE239041.028	LB264048	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH39(0.2m)	SE239041.029	LB264048	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH40(0.2m)	SE239041.030	LB264048	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH41(0.5m)	SE239041.031	LB264048	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH42(0.2m)	SE239041.032	LB264048	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH43(0.2m)	SE239041.033	LB264048	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH44(0.2m)	SE239041.034	LB264048	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH45(0.2m)	SE239041.035	LB264048	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH46(0.2m)	SE239041.036	LB264048	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH47(0.7m)	SE239041.037	LB264048	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH48(0.1m)	SE239041.038	LB264048	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH49(0.5m)	SE239041.039	LB264049	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH50(0.2m)	SE239041.040	LB264049	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH51(0.2m)	SE239041.041	LB264049	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH52(0.7m)	SE239041.042	LB264049	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH53(0.2m)	SE239041.043	LB264049	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH54(0.2m)	SE239041.044	LB264049	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH55(0.7m)	SE239041.045	LB264049	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH56(0.2m)	SE239041.046	LB264049	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH57(0.2m)	SE239041.047	LB264049	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH58(0.2m)	SE239041.048	LB264049	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH59(0.2m)	SE239041.049	LB264049	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH60(0.2m)	SE239041.050	LB264049	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH61(0.5m)	SE239041.051	LB264049	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH62(0.2m)	SE239041.052	LB264049	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH63(0.2m)	SE239041.053	LB264049	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH64(0.2m)	SE239041.054	LB264049	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH65(0.9m)	SE239041.055	LB264049	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH66(0.2m)	SE239041.056	LB264049	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH67(0.2m)	SE239041.057	LB264049	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH68(0.6m)	SE239041.058	LB264050	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH69(0.2m)	SE239041.059	LB264050	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH70(0.2m)	SE239041.060	LB264050	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH71(0.2m)	SE239041.061	LB264050	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH72(0.8m)	SE239041.062	LB264050	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH73(0.2m)	SE239041.063	LB264050	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH74(0.2m)	SE239041.064	LB264050	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH75(1.0m)	SE239041.065	LB264050	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH76(0.2m)	SE239041.066	LB264050	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH77(0.2m)	SE239041.067	LB264050	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH78(0.2m)	SE239041.068	LB264050	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH79(0.2m)	SE239041.069	LB264050	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH80(0.6m)	SE239041.070	LB264050	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH81(0.8m)	SE239041.071	LB264050	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH82(0.2m)	SE239041.072	LB264050	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH83(0.2m)	SE239041.073	LB264050	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH84(0.1m)	SE239041.074	LB264050	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH85(0.2m)	SE239041.075	LB264050	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH86(0.7m)	SE239041.076	LB264050	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Moisture Content (continued) — **Method: ME-(AU)-[ENV]AN002**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH87(0.8m)	SE239041.077	LB264052	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH88(0.2m)	SE239041.078	LB264052	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH89(0.2m)	SE239041.079	LB264052	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH90(0.2m)	SE239041.080	LB264052	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH91(1.0m)	SE239041.081	LB264052	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH92(0.2m)	SE239041.082	LB264052	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH93(0.2m)	SE239041.083	LB264052	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH94(0.2m)	SE239041.084	LB264052	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH95(0.2m)	SE239041.085	LB264052	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH96(0.7m)	SE239041.086	LB264052	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH97(0.2m)	SE239041.087	LB264052	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH98(0.2m)	SE239041.088	LB264052	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BR1	SE239041.089	LB264052	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BR2	SE239041.090	LB264052	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BR3	SE239041.091	LB264052	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BR4	SE239041.092	LB264052	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
WD1	SE239041.093	LB264052	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
WD2	SE239041.094	LB264052	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
TRIP BLANK	SE239041.098	LB264052	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†

OC Pesticides in Soil — **Method: ME-(AU)-[ENV]AN420**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11(0.2m)	SE239041.001	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH12(0.7m)	SE239041.002	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH13(0.2m)	SE239041.003	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH14(0.2m)	SE239041.004	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH15(0.5m)	SE239041.005	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH16(0.2m)	SE239041.006	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH17(0.7m)	SE239041.007	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH18(0.2m)	SE239041.008	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH19(0.2m)	SE239041.009	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH20(0.2m)	SE239041.010	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH21(0.5m)	SE239041.011	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH22(0.2m)	SE239041.012	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH23(0.2m)	SE239041.013	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH24(0.2m)	SE239041.014	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH25(0.2m)	SE239041.015	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH26(surface sample)	SE239041.016	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH27(0.2m)	SE239041.017	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH28(0.4m)	SE239041.018	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH29(0.5m)	SE239041.019	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH30(0.2m)	SE239041.020	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH31(0.2m)	SE239041.021	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH32(0.2m)	SE239041.022	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH33(0.2m)	SE239041.023	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH34(0.2m)	SE239041.024	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH35(0.2m)	SE239041.025	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH36(0.6m)	SE239041.026	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH37(0.6m)	SE239041.027	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH38(0.2m)	SE239041.028	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH39(0.2m)	SE239041.029	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH40(0.2m)	SE239041.030	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH41(0.5m)	SE239041.031	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH42(0.2m)	SE239041.032	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH43(0.2m)	SE239041.033	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH44(0.2m)	SE239041.034	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH45(0.2m)	SE239041.035	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH46(0.2m)	SE239041.036	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH47(0.7m)	SE239041.037	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH48(0.1m)	SE239041.038	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH49(0.5m)	SE239041.039	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH50(0.2m)	SE239041.040	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH51(0.2m)	SE239041.041	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH52(0.7m)	SE239041.042	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH53(0.2m)	SE239041.043	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH54(0.2m)	SE239041.044	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH55(0.7m)	SE239041.045	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH56(0.2m)	SE239041.046	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH57(0.2m)	SE239041.047	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH58(0.2m)	SE239041.048	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH59(0.2m)	SE239041.049	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH60(0.2m)	SE239041.050	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH61(0.5m)	SE239041.051	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH62(0.2m)	SE239041.052	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH63(0.2m)	SE239041.053	LB263997	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH64(0.2m)	SE239041.054	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH65(0.9m)	SE239041.055	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH66(0.2m)	SE239041.056	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH67(0.2m)	SE239041.057	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH68(0.6m)	SE239041.058	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH69(0.2m)	SE239041.059	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH70(0.2m)	SE239041.060	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH71(0.2m)	SE239041.061	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH72(0.8m)	SE239041.062	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH73(0.2m)	SE239041.063	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH74(0.2m)	SE239041.064	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH75(1.0m)	SE239041.065	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH76(0.2m)	SE239041.066	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH77(0.2m)	SE239041.067	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH78(0.2m)	SE239041.068	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH79(0.2m)	SE239041.069	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH80(0.6m)	SE239041.070	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH81(0.8m)	SE239041.071	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH82(0.2m)	SE239041.072	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH83(0.2m)	SE239041.073	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH84(0.1m)	SE239041.074	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH85(0.2m)	SE239041.075	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH86(0.7m)	SE239041.076	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH87(0.8m)	SE239041.077	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH88(0.2m)	SE239041.078	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH89(0.2m)	SE239041.079	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH90(0.2m)	SE239041.080	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH91(1.0m)	SE239041.081	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH92(0.2m)	SE239041.082	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH93(0.2m)	SE239041.083	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH94(0.2m)	SE239041.084	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH95(0.2m)	SE239041.085	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH96(0.7m)	SE239041.086	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH97(0.2m)	SE239041.087	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH98(0.2m)	SE239041.088	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BR1	SE239041.089	LB263999	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BR2	SE239041.090	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BR3	SE239041.091	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BR4	SE239041.092	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
WD1	SE239041.093	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
WD2	SE239041.094	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
TRIP BLANK	SE239041.098	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022

OC Pesticides in Water — **Method: ME-(AU)-[ENV]AN420**

Sample Name	Sample No.	QC Ref

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

OC Pesticides in Water (continued) — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
WD1	SE239041.095	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
WD2	SE239041.096	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
RIN	SE239041.097	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022

OP Pesticides in Soil — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11(0.2m)	SE239041.001	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH12(0.7m)	SE239041.002	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH13(0.2m)	SE239041.003	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH14(0.2m)	SE239041.004	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH15(0.5m)	SE239041.005	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH16(0.2m)	SE239041.006	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH17(0.7m)	SE239041.007	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH18(0.2m)	SE239041.008	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH19(0.2m)	SE239041.009	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH20(0.2m)	SE239041.010	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH21(0.5m)	SE239041.011	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH22(0.2m)	SE239041.012	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH23(0.2m)	SE239041.013	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH24(0.2m)	SE239041.014	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH25(0.2m)	SE239041.015	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH26(surface sample)	SE239041.016	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH27(0.2m)	SE239041.017	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH28(0.4m)	SE239041.018	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH29(0.5m)	SE239041.019	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH30(0.2m)	SE239041.020	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH31(0.2m)	SE239041.021	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH32(0.2m)	SE239041.022	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH33(0.2m)	SE239041.023	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH34(0.2m)	SE239041.024	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH35(0.2m)	SE239041.025	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH36(0.6m)	SE239041.026	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH37(0.6m)	SE239041.027	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH38(0.2m)	SE239041.028	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH39(0.2m)	SE239041.029	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH40(0.2m)	SE239041.030	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH41(0.5m)	SE239041.031	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH42(0.2m)	SE239041.032	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH43(0.2m)	SE239041.033	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH44(0.2m)	SE239041.034	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH45(0.2m)	SE239041.035	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH46(0.2m)	SE239041.036	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH47(0.7m)	SE239041.037	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH48(0.1m)	SE239041.038	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH49(0.5m)	SE239041.039	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH50(0.2m)	SE239041.040	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH51(0.2m)	SE239041.041	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH52(0.7m)	SE239041.042	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH53(0.2m)	SE239041.043	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH54(0.2m)	SE239041.044	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH55(0.7m)	SE239041.045	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH56(0.2m)	SE239041.046	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH57(0.2m)	SE239041.047	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH58(0.2m)	SE239041.048	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH59(0.2m)	SE239041.049	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH60(0.2m)	SE239041.050	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH61(0.5m)	SE239041.051	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH62(0.2m)	SE239041.052	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH63(0.2m)	SE239041.053	LB263997	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH64(0.2m)	SE239041.054	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

OP Pesticides in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH65(0.9m)	SE239041.055	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH66(0.2m)	SE239041.056	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH67(0.2m)	SE239041.057	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH68(0.6m)	SE239041.058	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH69(0.2m)	SE239041.059	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH70(0.2m)	SE239041.060	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH71(0.2m)	SE239041.061	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH72(0.8m)	SE239041.062	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH73(0.2m)	SE239041.063	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH74(0.2m)	SE239041.064	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH75(1.0m)	SE239041.065	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH76(0.2m)	SE239041.066	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH77(0.2m)	SE239041.067	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH78(0.2m)	SE239041.068	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH79(0.2m)	SE239041.069	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH80(0.6m)	SE239041.070	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH81(0.8m)	SE239041.071	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH82(0.2m)	SE239041.072	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH83(0.2m)	SE239041.073	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH84(0.1m)	SE239041.074	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH85(0.2m)	SE239041.075	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH86(0.7m)	SE239041.076	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH87(0.8m)	SE239041.077	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH88(0.2m)	SE239041.078	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH89(0.2m)	SE239041.079	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH90(0.2m)	SE239041.080	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH91(1.0m)	SE239041.081	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH92(0.2m)	SE239041.082	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH93(0.2m)	SE239041.083	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH94(0.2m)	SE239041.084	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH95(0.2m)	SE239041.085	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH96(0.7m)	SE239041.086	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH97(0.2m)	SE239041.087	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH98(0.2m)	SE239041.088	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BR1	SE239041.089	LB263999	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BR2	SE239041.090	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BR3	SE239041.091	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BR4	SE239041.092	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
WD1	SE239041.093	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
WD2	SE239041.094	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
TRIP BLANK	SE239041.098	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022

OP Pesticides in Water — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
WD1	SE239041.095	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
WD2	SE239041.096	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
RIN	SE239041.097	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022

PAH (Polynuclear Aromatic Hydrocarbons) in Soil — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11(0.2m)	SE239041.001	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH12(0.7m)	SE239041.002	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH13(0.2m)	SE239041.003	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH14(0.2m)	SE239041.004	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH15(0.5m)	SE239041.005	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH16(0.2m)	SE239041.006	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH17(0.7m)	SE239041.007	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH18(0.2m)	SE239041.008	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH19(0.2m)	SE239041.009	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH20(0.2m)	SE239041.010	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH21(0.5m)	SE239041.011	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH22(0.2m)	SE239041.012	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH23(0.2m)	SE239041.013	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH24(0.2m)	SE239041.014	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH25(0.2m)	SE239041.015	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH26(surface sample)	SE239041.016	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH27(0.2m)	SE239041.017	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH28(0.4m)	SE239041.018	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH29(0.5m)	SE239041.019	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH30(0.2m)	SE239041.020	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH31(0.2m)	SE239041.021	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH32(0.2m)	SE239041.022	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH33(0.2m)	SE239041.023	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH34(0.2m)	SE239041.024	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH35(0.2m)	SE239041.025	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH36(0.6m)	SE239041.026	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH37(0.6m)	SE239041.027	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH38(0.2m)	SE239041.028	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH39(0.2m)	SE239041.029	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH40(0.2m)	SE239041.030	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH41(0.5m)	SE239041.031	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH42(0.2m)	SE239041.032	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH43(0.2m)	SE239041.033	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH44(0.2m)	SE239041.034	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH45(0.2m)	SE239041.035	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH46(0.2m)	SE239041.036	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH47(0.7m)	SE239041.037	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH48(0.1m)	SE239041.038	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH49(0.5m)	SE239041.039	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH50(0.2m)	SE239041.040	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH51(0.2m)	SE239041.041	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH52(0.7m)	SE239041.042	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH53(0.2m)	SE239041.043	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH54(0.2m)	SE239041.044	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH55(0.7m)	SE239041.045	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH56(0.2m)	SE239041.046	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH57(0.2m)	SE239041.047	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH58(0.2m)	SE239041.048	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH59(0.2m)	SE239041.049	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH60(0.2m)	SE239041.050	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH61(0.5m)	SE239041.051	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH62(0.2m)	SE239041.052	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH63(0.2m)	SE239041.053	LB263997	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH64(0.2m)	SE239041.054	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH65(0.9m)	SE239041.055	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH66(0.2m)	SE239041.056	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH67(0.2m)	SE239041.057	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH68(0.6m)	SE239041.058	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH69(0.2m)	SE239041.059	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH70(0.2m)	SE239041.060	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH71(0.2m)	SE239041.061	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH72(0.8m)	SE239041.062	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH73(0.2m)	SE239041.063	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH74(0.2m)	SE239041.064	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH75(1.0m)	SE239041.065	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH76(0.2m)	SE239041.066	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH77(0.2m)	SE239041.067	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH78(0.2m)	SE239041.068	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH79(0.2m)	SE239041.069	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH80(0.6m)	SE239041.070	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH81(0.8m)	SE239041.071	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022

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Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH82(0.2m)	SE239041.072	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH83(0.2m)	SE239041.073	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH84(0.1m)	SE239041.074	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH85(0.2m)	SE239041.075	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH86(0.7m)	SE239041.076	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH87(0.8m)	SE239041.077	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH88(0.2m)	SE239041.078	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH89(0.2m)	SE239041.079	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH90(0.2m)	SE239041.080	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH91(1.0m)	SE239041.081	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH92(0.2m)	SE239041.082	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH93(0.2m)	SE239041.083	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH94(0.2m)	SE239041.084	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH95(0.2m)	SE239041.085	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH96(0.7m)	SE239041.086	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH97(0.2m)	SE239041.087	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH98(0.2m)	SE239041.088	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BR1	SE239041.089	LB263999	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BR2	SE239041.090	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BR3	SE239041.091	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BR4	SE239041.092	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
WD1	SE239041.093	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
WD2	SE239041.094	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
TRIP BLANK	SE239041.098	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022

PAH (Polynuclear Aromatic Hydrocarbons) in Water — **Method: ME-(AU)-[ENV]AN420**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
WD1	SE239041.095	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
WD2	SE239041.096	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
RIN	SE239041.097	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022

PCBs in Soil — **Method: ME-(AU)-[ENV]AN420**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11(0.2m)	SE239041.001	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH12(0.7m)	SE239041.002	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH13(0.2m)	SE239041.003	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH14(0.2m)	SE239041.004	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH15(0.5m)	SE239041.005	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH16(0.2m)	SE239041.006	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH17(0.7m)	SE239041.007	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH18(0.2m)	SE239041.008	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH19(0.2m)	SE239041.009	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH20(0.2m)	SE239041.010	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH21(0.5m)	SE239041.011	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH22(0.2m)	SE239041.012	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH23(0.2m)	SE239041.013	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH24(0.2m)	SE239041.014	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH25(0.2m)	SE239041.015	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH26(surface sample)	SE239041.016	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH27(0.2m)	SE239041.017	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH28(0.4m)	SE239041.018	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH29(0.5m)	SE239041.019	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH30(0.2m)	SE239041.020	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH31(0.2m)	SE239041.021	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH32(0.2m)	SE239041.022	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH33(0.2m)	SE239041.023	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH34(0.2m)	SE239041.024	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH35(0.2m)	SE239041.025	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH36(0.6m)	SE239041.026	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH37(0.6m)	SE239041.027	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH38(0.2m)	SE239041.028	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PCBs in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH39(0.2m)	SE239041.029	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH40(0.2m)	SE239041.030	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH41(0.5m)	SE239041.031	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH42(0.2m)	SE239041.032	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH43(0.2m)	SE239041.033	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH44(0.2m)	SE239041.034	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH45(0.2m)	SE239041.035	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH46(0.2m)	SE239041.036	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH47(0.7m)	SE239041.037	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH48(0.1m)	SE239041.038	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH49(0.5m)	SE239041.039	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH50(0.2m)	SE239041.040	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH51(0.2m)	SE239041.041	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH52(0.7m)	SE239041.042	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH53(0.2m)	SE239041.043	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH54(0.2m)	SE239041.044	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH55(0.7m)	SE239041.045	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH56(0.2m)	SE239041.046	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH57(0.2m)	SE239041.047	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH58(0.2m)	SE239041.048	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH59(0.2m)	SE239041.049	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH60(0.2m)	SE239041.050	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH61(0.5m)	SE239041.051	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH62(0.2m)	SE239041.052	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH63(0.2m)	SE239041.053	LB263997	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH64(0.2m)	SE239041.054	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH65(0.9m)	SE239041.055	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH66(0.2m)	SE239041.056	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH67(0.2m)	SE239041.057	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022
BH68(0.6m)	SE239041.058	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH69(0.2m)	SE239041.059	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH70(0.2m)	SE239041.060	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH71(0.2m)	SE239041.061	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH72(0.8m)	SE239041.062	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH73(0.2m)	SE239041.063	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH74(0.2m)	SE239041.064	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH75(1.0m)	SE239041.065	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH76(0.2m)	SE239041.066	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH77(0.2m)	SE239041.067	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH78(0.2m)	SE239041.068	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH79(0.2m)	SE239041.069	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH80(0.6m)	SE239041.070	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH81(0.8m)	SE239041.071	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH82(0.2m)	SE239041.072	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH83(0.2m)	SE239041.073	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH84(0.1m)	SE239041.074	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH85(0.2m)	SE239041.075	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH86(0.7m)	SE239041.076	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH87(0.8m)	SE239041.077	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH88(0.2m)	SE239041.078	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH89(0.2m)	SE239041.079	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH90(0.2m)	SE239041.080	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH91(1.0m)	SE239041.081	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH92(0.2m)	SE239041.082	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH93(0.2m)	SE239041.083	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH94(0.2m)	SE239041.084	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH95(0.2m)	SE239041.085	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH96(0.7m)	SE239041.086	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH97(0.2m)	SE239041.087	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH98(0.2m)	SE239041.088	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

PCBs in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BR1	SE239041.089	LB263999	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BR2	SE239041.090	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BR3	SE239041.091	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BR4	SE239041.092	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
WD1	SE239041.093	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
WD2	SE239041.094	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
TRIP BLANK	SE239041.098	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	23 Nov 2022

PCBs in Water — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
WD1	SE239041.095	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
WD2	SE239041.096	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
RIN	SE239041.097	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES — Method: ME-(AU)-[ENV]AN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11(0.2m)	SE239041.001	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH12(0.7m)	SE239041.002	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH13(0.2m)	SE239041.003	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH14(0.2m)	SE239041.004	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH15(0.5m)	SE239041.005	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH16(0.2m)	SE239041.006	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH17(0.7m)	SE239041.007	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH18(0.2m)	SE239041.008	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH19(0.2m)	SE239041.009	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH20(0.2m)	SE239041.010	LB264249	10 Nov 2022	11 Nov 2022	09 May 2023	18 Nov 2022	09 May 2023	22 Nov 2022
BH21(0.5m)	SE239041.011	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH22(0.2m)	SE239041.012	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH23(0.2m)	SE239041.013	LB264249	10 Nov 2022	11 Nov 2022	09 May 2023	18 Nov 2022	09 May 2023	22 Nov 2022
BH24(0.2m)	SE239041.014	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH25(0.2m)	SE239041.015	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH26(surface sample)	SE239041.016	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH27(0.2m)	SE239041.017	LB264249	10 Nov 2022	11 Nov 2022	09 May 2023	18 Nov 2022	09 May 2023	22 Nov 2022
BH28(0.4m)	SE239041.018	LB264249	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH29(0.5m)	SE239041.019	LB264249	10 Nov 2022	11 Nov 2022	09 May 2023	18 Nov 2022	09 May 2023	22 Nov 2022
BH30(0.2m)	SE239041.020	LB264250	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH31(0.2m)	SE239041.021	LB264250	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH32(0.2m)	SE239041.022	LB264250	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH33(0.2m)	SE239041.023	LB264250	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH34(0.2m)	SE239041.024	LB264250	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH35(0.2m)	SE239041.025	LB264250	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH36(0.6m)	SE239041.026	LB264250	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH37(0.6m)	SE239041.027	LB264250	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH38(0.2m)	SE239041.028	LB264250	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH39(0.2m)	SE239041.029	LB264250	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH40(0.2m)	SE239041.030	LB264250	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH41(0.5m)	SE239041.031	LB264250	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH42(0.2m)	SE239041.032	LB264250	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH43(0.2m)	SE239041.033	LB264250	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH44(0.2m)	SE239041.034	LB264250	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH45(0.2m)	SE239041.035	LB264250	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH46(0.2m)	SE239041.036	LB264250	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH47(0.7m)	SE239041.037	LB264250	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH48(0.1m)	SE239041.038	LB264250	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH49(0.5m)	SE239041.039	LB264247	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH50(0.2m)	SE239041.040	LB264247	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH51(0.2m)	SE239041.041	LB264247	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH52(0.7m)	SE239041.042	LB264247	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH53(0.2m)	SE239041.043	LB264247	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH54(0.2m)	SE239041.044	LB264247	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH55(0.7m)	SE239041.045	LB264247	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued) — **Method: ME-(AU)-[ENV]AN040/AN320**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH56(0.2m)	SE239041.046	LB264247	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH57(0.2m)	SE239041.047	LB264247	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH58(0.2m)	SE239041.048	LB264247	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH59(0.2m)	SE239041.049	LB264247	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH60(0.2m)	SE239041.050	LB264247	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH61(0.5m)	SE239041.051	LB264247	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH62(0.2m)	SE239041.052	LB264247	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH63(0.2m)	SE239041.053	LB264247	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BH64(0.2m)	SE239041.054	LB264247	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH65(0.9m)	SE239041.055	LB264247	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH66(0.2m)	SE239041.056	LB264247	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH67(0.2m)	SE239041.057	LB264247	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH68(0.6m)	SE239041.058	LB264253	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH69(0.2m)	SE239041.059	LB264253	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH70(0.2m)	SE239041.060	LB264253	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH71(0.2m)	SE239041.061	LB264253	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH72(0.8m)	SE239041.062	LB264253	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH73(0.2m)	SE239041.063	LB264253	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH74(0.2m)	SE239041.064	LB264253	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH75(1.0m)	SE239041.065	LB264253	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH76(0.2m)	SE239041.066	LB264253	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH77(0.2m)	SE239041.067	LB264253	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH78(0.2m)	SE239041.068	LB264253	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH79(0.2m)	SE239041.069	LB264253	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH80(0.6m)	SE239041.070	LB264253	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH81(0.8m)	SE239041.071	LB264253	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH82(0.2m)	SE239041.072	LB264253	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH83(0.2m)	SE239041.073	LB264253	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH84(0.1m)	SE239041.074	LB264253	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH85(0.2m)	SE239041.075	LB264253	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH86(0.7m)	SE239041.076	LB264253	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH87(0.8m)	SE239041.077	LB264254	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH88(0.2m)	SE239041.078	LB264254	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH89(0.2m)	SE239041.079	LB264254	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH90(0.2m)	SE239041.080	LB264254	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH91(1.0m)	SE239041.081	LB264254	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH92(0.2m)	SE239041.082	LB264254	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BH93(0.2m)	SE239041.083	LB264254	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH94(0.2m)	SE239041.084	LB264254	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH95(0.2m)	SE239041.085	LB264254	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH96(0.7m)	SE239041.086	LB264254	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH97(0.2m)	SE239041.087	LB264254	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BH98(0.2m)	SE239041.088	LB264254	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BR1	SE239041.089	LB264254	07 Nov 2022	11 Nov 2022	06 May 2023	18 Nov 2022	06 May 2023	22 Nov 2022
BR2	SE239041.090	LB264254	08 Nov 2022	11 Nov 2022	07 May 2023	18 Nov 2022	07 May 2023	22 Nov 2022
BR3	SE239041.091	LB264254	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
BR4	SE239041.092	LB264254	09 Nov 2022	11 Nov 2022	08 May 2023	18 Nov 2022	08 May 2023	22 Nov 2022
WD1	SE239041.093	LB264254	10 Nov 2022	11 Nov 2022	09 May 2023	18 Nov 2022	09 May 2023	22 Nov 2022
WD2	SE239041.094	LB264254	10 Nov 2022	11 Nov 2022	09 May 2023	18 Nov 2022	09 May 2023	22 Nov 2022
TRIP BLANK	SE239041.098	LB264254	10 Nov 2022	11 Nov 2022	09 May 2023	18 Nov 2022	09 May 2023	22 Nov 2022

Trace Metals (Dissolved) in Water by ICPMS — **Method: ME-(AU)-[ENV]AN318**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
WD1	SE239041.095	LB263915	10 Nov 2022	11 Nov 2022	09 May 2023	16 Nov 2022	09 May 2023	17 Nov 2022
WD2	SE239041.096	LB263915	10 Nov 2022	11 Nov 2022	09 May 2023	16 Nov 2022	09 May 2023	17 Nov 2022
RIN	SE239041.097	LB263915	10 Nov 2022	11 Nov 2022	09 May 2023	16 Nov 2022	09 May 2023	17 Nov 2022

TRH (Total Recoverable Hydrocarbons) in Soil — **Method: ME-(AU)-[ENV]AN403**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11(0.2m)	SE239041.001	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH12(0.7m)	SE239041.002	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

TRH (Total Recoverable Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN403**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH13(0.2m)	SE239041.003	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH14(0.2m)	SE239041.004	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH15(0.5m)	SE239041.005	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH16(0.2m)	SE239041.006	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH17(0.7m)	SE239041.007	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH18(0.2m)	SE239041.008	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH19(0.2m)	SE239041.009	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH20(0.2m)	SE239041.010	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH21(0.5m)	SE239041.011	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH22(0.2m)	SE239041.012	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH23(0.2m)	SE239041.013	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH24(0.2m)	SE239041.014	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH25(0.2m)	SE239041.015	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH26(surface sample)	SE239041.016	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH27(0.2m)	SE239041.017	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH28(0.4m)	SE239041.018	LB263988	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH29(0.5m)	SE239041.019	LB263988	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH30(0.2m)	SE239041.020	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH31(0.2m)	SE239041.021	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH32(0.2m)	SE239041.022	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH33(0.2m)	SE239041.023	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH34(0.2m)	SE239041.024	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH35(0.2m)	SE239041.025	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH36(0.6m)	SE239041.026	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH37(0.6m)	SE239041.027	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH38(0.2m)	SE239041.028	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH39(0.2m)	SE239041.029	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH40(0.2m)	SE239041.030	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH41(0.5m)	SE239041.031	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH42(0.2m)	SE239041.032	LB263989	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH43(0.2m)	SE239041.033	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH44(0.2m)	SE239041.034	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH45(0.2m)	SE239041.035	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH46(0.2m)	SE239041.036	LB263989	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH47(0.7m)	SE239041.037	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH48(0.1m)	SE239041.038	LB263989	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH49(0.5m)	SE239041.039	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH50(0.2m)	SE239041.040	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH51(0.2m)	SE239041.041	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH52(0.7m)	SE239041.042	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH53(0.2m)	SE239041.043	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH54(0.2m)	SE239041.044	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH55(0.7m)	SE239041.045	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH56(0.2m)	SE239041.046	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH57(0.2m)	SE239041.047	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH58(0.2m)	SE239041.048	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH59(0.2m)	SE239041.049	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH60(0.2m)	SE239041.050	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH61(0.5m)	SE239041.051	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH62(0.2m)	SE239041.052	LB263997	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH63(0.2m)	SE239041.053	LB263997	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH64(0.2m)	SE239041.054	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH65(0.9m)	SE239041.055	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH66(0.2m)	SE239041.056	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH67(0.2m)	SE239041.057	LB263997	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH68(0.6m)	SE239041.058	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH69(0.2m)	SE239041.059	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH70(0.2m)	SE239041.060	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH71(0.2m)	SE239041.061	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH72(0.8m)	SE239041.062	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH73(0.2m)	SE239041.063	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH74(0.2m)	SE239041.064	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH75(1.0m)	SE239041.065	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH76(0.2m)	SE239041.066	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH77(0.2m)	SE239041.067	LB263998	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH78(0.2m)	SE239041.068	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH79(0.2m)	SE239041.069	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH80(0.6m)	SE239041.070	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH81(0.8m)	SE239041.071	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH82(0.2m)	SE239041.072	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH83(0.2m)	SE239041.073	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH84(0.1m)	SE239041.074	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH85(0.2m)	SE239041.075	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH86(0.7m)	SE239041.076	LB263998	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH87(0.8m)	SE239041.077	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH88(0.2m)	SE239041.078	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH89(0.2m)	SE239041.079	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH90(0.2m)	SE239041.080	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH91(1.0m)	SE239041.081	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH92(0.2m)	SE239041.082	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH93(0.2m)	SE239041.083	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH94(0.2m)	SE239041.084	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH95(0.2m)	SE239041.085	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH96(0.7m)	SE239041.086	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH97(0.2m)	SE239041.087	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BH98(0.2m)	SE239041.088	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BR1	SE239041.089	LB263999	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BR2	SE239041.090	LB263999	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BR3	SE239041.091	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
BR4	SE239041.092	LB263999	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
WD1	SE239041.093	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
WD2	SE239041.094	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
TRIP BLANK	SE239041.098	LB263999	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
WD1	SE239041.095	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
WD2	SE239041.096	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022
RIN	SE239041.097	LB263924	10 Nov 2022	11 Nov 2022	17 Nov 2022	16 Nov 2022	26 Dec 2022	22 Nov 2022

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11(0.2m)	SE239041.001	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH12(0.7m)	SE239041.002	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH13(0.2m)	SE239041.003	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH14(0.2m)	SE239041.004	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH15(0.5m)	SE239041.005	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH16(0.2m)	SE239041.006	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH17(0.7m)	SE239041.007	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH18(0.2m)	SE239041.008	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH19(0.2m)	SE239041.009	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH20(0.2m)	SE239041.010	LB264031	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	22 Nov 2022
BH21(0.5m)	SE239041.011	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH22(0.2m)	SE239041.012	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH23(0.2m)	SE239041.013	LB264031	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	22 Nov 2022
BH24(0.2m)	SE239041.014	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH25(0.2m)	SE239041.015	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH26(surface sample)	SE239041.016	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH27(0.2m)	SE239041.017	LB264031	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	22 Nov 2022
BH28(0.4m)	SE239041.018	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH29(0.5m)	SE239041.019	LB264031	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	22 Nov 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

VOC's in Soil (continued) — Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH30(0.2m)	SE239041.020	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH31(0.2m)	SE239041.021	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH32(0.2m)	SE239041.022	LB264032	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH33(0.2m)	SE239041.023	LB264032	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH34(0.2m)	SE239041.024	LB264032	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH35(0.2m)	SE239041.025	LB264032	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BH36(0.6m)	SE239041.026	LB264032	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BH37(0.6m)	SE239041.027	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH38(0.2m)	SE239041.028	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH39(0.2m)	SE239041.029	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH40(0.2m)	SE239041.030	LB264032	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BH41(0.5m)	SE239041.031	LB264032	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BH42(0.2m)	SE239041.032	LB264032	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BH43(0.2m)	SE239041.033	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH44(0.2m)	SE239041.034	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH45(0.2m)	SE239041.035	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH46(0.2m)	SE239041.036	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH47(0.7m)	SE239041.037	LB264032	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH48(0.1m)	SE239041.038	LB264032	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH49(0.5m)	SE239041.039	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH50(0.2m)	SE239041.040	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH51(0.2m)	SE239041.041	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH52(0.7m)	SE239041.042	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH53(0.2m)	SE239041.043	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH54(0.2m)	SE239041.044	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH55(0.7m)	SE239041.045	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH56(0.2m)	SE239041.046	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH57(0.2m)	SE239041.047	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH58(0.2m)	SE239041.048	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH59(0.2m)	SE239041.049	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH60(0.2m)	SE239041.050	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH61(0.5m)	SE239041.051	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH62(0.2m)	SE239041.052	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH63(0.2m)	SE239041.053	LB264033	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BH64(0.2m)	SE239041.054	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH65(0.9m)	SE239041.055	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH66(0.2m)	SE239041.056	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH67(0.2m)	SE239041.057	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH68(0.6m)	SE239041.058	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH69(0.2m)	SE239041.059	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH70(0.2m)	SE239041.060	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH71(0.2m)	SE239041.061	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH72(0.8m)	SE239041.062	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH73(0.2m)	SE239041.063	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH74(0.2m)	SE239041.064	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH75(1.0m)	SE239041.065	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH76(0.2m)	SE239041.066	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH77(0.2m)	SE239041.067	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH78(0.2m)	SE239041.068	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH79(0.2m)	SE239041.069	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH80(0.6m)	SE239041.070	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH81(0.8m)	SE239041.071	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH82(0.2m)	SE239041.072	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH83(0.2m)	SE239041.073	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH84(0.1m)	SE239041.074	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH85(0.2m)	SE239041.075	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH86(0.7m)	SE239041.076	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH87(0.8m)	SE239041.077	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH88(0.2m)	SE239041.078	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH89(0.2m)	SE239041.079	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022

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Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

VOC's in Soil (continued) — Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH90(0.2m)	SE239041.080	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH91(1.0m)	SE239041.081	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH92(0.2m)	SE239041.082	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH93(0.2m)	SE239041.083	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH94(0.2m)	SE239041.084	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH95(0.2m)	SE239041.085	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH96(0.7m)	SE239041.086	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH97(0.2m)	SE239041.087	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH98(0.2m)	SE239041.088	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BR1	SE239041.089	LB264035	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BR2	SE239041.090	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BR3	SE239041.091	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BR4	SE239041.092	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
WD1	SE239041.093	LB264035	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	23 Nov 2022
WD2	SE239041.094	LB264035	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	23 Nov 2022
TRIP BLANK	SE239041.098	LB264035	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	23 Nov 2022
TRP SPIKE	SE239041.099	LB264035	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	23 Nov 2022

VOCs in Water — Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
WD1	SE239041.095	LB264092	10 Nov 2022	11 Nov 2022	24 Nov 2022	17 Nov 2022	24 Nov 2022	18 Nov 2022
WD2	SE239041.096	LB264092	10 Nov 2022	11 Nov 2022	24 Nov 2022	17 Nov 2022	24 Nov 2022	18 Nov 2022
RIN	SE239041.097	LB264092	10 Nov 2022	11 Nov 2022	24 Nov 2022	17 Nov 2022	24 Nov 2022	18 Nov 2022

Volatile Petroleum Hydrocarbons in Soil — Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH11(0.2m)	SE239041.001	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH12(0.7m)	SE239041.002	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH13(0.2m)	SE239041.003	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH14(0.2m)	SE239041.004	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH15(0.5m)	SE239041.005	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH16(0.2m)	SE239041.006	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH17(0.7m)	SE239041.007	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH18(0.2m)	SE239041.008	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH19(0.2m)	SE239041.009	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH20(0.2m)	SE239041.010	LB264031	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	22 Nov 2022
BH21(0.5m)	SE239041.011	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH22(0.2m)	SE239041.012	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH23(0.2m)	SE239041.013	LB264031	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	22 Nov 2022
BH24(0.2m)	SE239041.014	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH25(0.2m)	SE239041.015	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH26(surface sample)	SE239041.016	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH27(0.2m)	SE239041.017	LB264031	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	22 Nov 2022
BH28(0.4m)	SE239041.018	LB264031	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	22 Nov 2022†
BH29(0.5m)	SE239041.019	LB264031	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	22 Nov 2022
BH30(0.2m)	SE239041.020	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH31(0.2m)	SE239041.021	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH32(0.2m)	SE239041.022	LB264032	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH33(0.2m)	SE239041.023	LB264032	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH34(0.2m)	SE239041.024	LB264032	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH35(0.2m)	SE239041.025	LB264032	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BH36(0.6m)	SE239041.026	LB264032	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BH37(0.6m)	SE239041.027	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH38(0.2m)	SE239041.028	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH39(0.2m)	SE239041.029	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH40(0.2m)	SE239041.030	LB264032	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BH41(0.5m)	SE239041.031	LB264032	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BH42(0.2m)	SE239041.032	LB264032	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BH43(0.2m)	SE239041.033	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH44(0.2m)	SE239041.034	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH45(0.2m)	SE239041.035	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH46(0.2m)	SE239041.036	LB264032	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH47(0.7m)	SE239041.037	LB264032	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH48(0.1m)	SE239041.038	LB264032	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH49(0.5m)	SE239041.039	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH50(0.2m)	SE239041.040	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH51(0.2m)	SE239041.041	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH52(0.7m)	SE239041.042	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH53(0.2m)	SE239041.043	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH54(0.2m)	SE239041.044	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH55(0.7m)	SE239041.045	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH56(0.2m)	SE239041.046	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH57(0.2m)	SE239041.047	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH58(0.2m)	SE239041.048	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH59(0.2m)	SE239041.049	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH60(0.2m)	SE239041.050	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH61(0.5m)	SE239041.051	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH62(0.2m)	SE239041.052	LB264033	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH63(0.2m)	SE239041.053	LB264033	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BH64(0.2m)	SE239041.054	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH65(0.9m)	SE239041.055	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH66(0.2m)	SE239041.056	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH67(0.2m)	SE239041.057	LB264033	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH68(0.6m)	SE239041.058	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH69(0.2m)	SE239041.059	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH70(0.2m)	SE239041.060	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH71(0.2m)	SE239041.061	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH72(0.8m)	SE239041.062	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH73(0.2m)	SE239041.063	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH74(0.2m)	SE239041.064	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH75(1.0m)	SE239041.065	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH76(0.2m)	SE239041.066	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH77(0.2m)	SE239041.067	LB264034	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	22 Nov 2022
BH78(0.2m)	SE239041.068	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH79(0.2m)	SE239041.069	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH80(0.6m)	SE239041.070	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH81(0.8m)	SE239041.071	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH82(0.2m)	SE239041.072	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH83(0.2m)	SE239041.073	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH84(0.1m)	SE239041.074	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH85(0.2m)	SE239041.075	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH86(0.7m)	SE239041.076	LB264034	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH87(0.8m)	SE239041.077	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH88(0.2m)	SE239041.078	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH89(0.2m)	SE239041.079	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH90(0.2m)	SE239041.080	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH91(1.0m)	SE239041.081	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH92(0.2m)	SE239041.082	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BH93(0.2m)	SE239041.083	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH94(0.2m)	SE239041.084	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH95(0.2m)	SE239041.085	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH96(0.7m)	SE239041.086	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH97(0.2m)	SE239041.087	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BH98(0.2m)	SE239041.088	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BR1	SE239041.089	LB264035	07 Nov 2022	11 Nov 2022	21 Nov 2022	16 Nov 2022	21 Nov 2022	23 Nov 2022†
BR2	SE239041.090	LB264035	08 Nov 2022	11 Nov 2022	22 Nov 2022	16 Nov 2022	22 Nov 2022	23 Nov 2022†
BR3	SE239041.091	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
BR4	SE239041.092	LB264035	09 Nov 2022	11 Nov 2022	23 Nov 2022	16 Nov 2022	23 Nov 2022	23 Nov 2022
WD1	SE239041.093	LB264035	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	23 Nov 2022
WD2	SE239041.094	LB264035	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	23 Nov 2022
TRIP BLANK	SE239041.098	LB264035	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	23 Nov 2022

HOLDING TIME SUMMARY

SE239041 R1

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TRP SPIKE	SE239041.099	LB264035	10 Nov 2022	11 Nov 2022	24 Nov 2022	16 Nov 2022	24 Nov 2022	23 Nov 2022

Volatile Petroleum Hydrocarbons in Water — **Method: ME-(AU)-[ENV]AN433**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
WD1	SE239041.095	LB264092	10 Nov 2022	11 Nov 2022	24 Nov 2022	17 Nov 2022	24 Nov 2022	18 Nov 2022
WD2	SE239041.096	LB264092	10 Nov 2022	11 Nov 2022	24 Nov 2022	17 Nov 2022	24 Nov 2022	18 Nov 2022
RIN	SE239041.097	LB264092	10 Nov 2022	11 Nov 2022	24 Nov 2022	17 Nov 2022	24 Nov 2022	18 Nov 2022

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH11(0.2m)	SE239041.001	%	60 - 130%	112
	BH12(0.7m)	SE239041.002	%	60 - 130%	111
	BH13(0.2m)	SE239041.003	%	60 - 130%	111
	BH14(0.2m)	SE239041.004	%	60 - 130%	113
	BH15(0.5m)	SE239041.005	%	60 - 130%	106
	BH16(0.2m)	SE239041.006	%	60 - 130%	116
	BH17(0.7m)	SE239041.007	%	60 - 130%	111
	BH18(0.2m)	SE239041.008	%	60 - 130%	112
	BH19(0.2m)	SE239041.009	%	60 - 130%	104
	BH20(0.2m)	SE239041.010	%	60 - 130%	106
	BH21(0.5m)	SE239041.011	%	60 - 130%	97
	BH22(0.2m)	SE239041.012	%	60 - 130%	96
	BH23(0.2m)	SE239041.013	%	60 - 130%	87
	BH24(0.2m)	SE239041.014	%	60 - 130%	90
	BH25(0.2m)	SE239041.015	%	60 - 130%	83
	BH26(surface sample)	SE239041.016	%	60 - 130%	90
	BH27(0.2m)	SE239041.017	%	60 - 130%	85
	BH28(0.4m)	SE239041.018	%	60 - 130%	92
	BH29(0.5m)	SE239041.019	%	60 - 130%	93
	BH30(0.2m)	SE239041.020	%	60 - 130%	108
	BH31(0.2m)	SE239041.021	%	60 - 130%	113
	BH32(0.2m)	SE239041.022	%	60 - 130%	115
	BH33(0.2m)	SE239041.023	%	60 - 130%	110
	BH34(0.2m)	SE239041.024	%	60 - 130%	119
	BH35(0.2m)	SE239041.025	%	60 - 130%	128
	BH36(0.6m)	SE239041.026	%	60 - 130%	107
	BH37(0.6m)	SE239041.027	%	60 - 130%	107
	BH38(0.2m)	SE239041.028	%	60 - 130%	119
	BH39(0.2m)	SE239041.029	%	60 - 130%	109
	BH40(0.2m)	SE239041.030	%	60 - 130%	109
	BH41(0.5m)	SE239041.031	%	60 - 130%	109
	BH42(0.2m)	SE239041.032	%	60 - 130%	115
	BH43(0.2m)	SE239041.033	%	60 - 130%	109
	BH44(0.2m)	SE239041.034	%	60 - 130%	109
	BH45(0.2m)	SE239041.035	%	60 - 130%	108
	BH46(0.2m)	SE239041.036	%	60 - 130%	111
	BH47(0.7m)	SE239041.037	%	60 - 130%	102
	BH48(0.1m)	SE239041.038	%	60 - 130%	109
	BH49(0.5m)	SE239041.039	%	60 - 130%	99
	BH50(0.2m)	SE239041.040	%	60 - 130%	108
	BH51(0.2m)	SE239041.041	%	60 - 130%	112
	BH52(0.7m)	SE239041.042	%	60 - 130%	102
	BH53(0.2m)	SE239041.043	%	60 - 130%	109
	BH54(0.2m)	SE239041.044	%	60 - 130%	103
	BH55(0.7m)	SE239041.045	%	60 - 130%	101
	BH56(0.2m)	SE239041.046	%	60 - 130%	108
	BH57(0.2m)	SE239041.047	%	60 - 130%	110
	BH58(0.2m)	SE239041.048	%	60 - 130%	110
	BH59(0.2m)	SE239041.049	%	60 - 130%	104
	BH60(0.2m)	SE239041.050	%	60 - 130%	105
	BH61(0.5m)	SE239041.051	%	60 - 130%	104
	BH62(0.2m)	SE239041.052	%	60 - 130%	106
	BH63(0.2m)	SE239041.053	%	60 - 130%	112
	BH64(0.2m)	SE239041.054	%	60 - 130%	99
	BH65(0.9m)	SE239041.055	%	60 - 130%	104
	BH66(0.2m)	SE239041.056	%	60 - 130%	109
	BH67(0.2m)	SE239041.057	%	60 - 130%	105
	BH68(0.6m)	SE239041.058	%	60 - 130%	106
	BH69(0.2m)	SE239041.059	%	60 - 130%	116
	BH70(0.2m)	SE239041.060	%	60 - 130%	113
	BH71(0.2m)	SE239041.061	%	60 - 130%	111

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	BH72(0.8m)	SE239041.062	%	60 - 130%	109
	BH73(0.2m)	SE239041.063	%	60 - 130%	118
	BH74(0.2m)	SE239041.064	%	60 - 130%	107
	BH75(1.0m)	SE239041.065	%	60 - 130%	105
	BH76(0.2m)	SE239041.066	%	60 - 130%	112
	BH77(0.2m)	SE239041.067	%	60 - 130%	108
	BH78(0.2m)	SE239041.068	%	60 - 130%	112
	BH79(0.2m)	SE239041.069	%	60 - 130%	110
	BH80(0.6m)	SE239041.070	%	60 - 130%	111
	BH81(0.8m)	SE239041.071	%	60 - 130%	107
	BH82(0.2m)	SE239041.072	%	60 - 130%	109
	BH83(0.2m)	SE239041.073	%	60 - 130%	120
	BH84(0.1m)	SE239041.074	%	60 - 130%	108
	BH85(0.2m)	SE239041.075	%	60 - 130%	106
	BH86(0.7m)	SE239041.076	%	60 - 130%	106
	BH87(0.8m)	SE239041.077	%	60 - 130%	114
	BH88(0.2m)	SE239041.078	%	60 - 130%	113
	BH89(0.2m)	SE239041.079	%	60 - 130%	111
	BH90(0.2m)	SE239041.080	%	60 - 130%	111
	BH91(1.0m)	SE239041.081	%	60 - 130%	106
	BH92(0.2m)	SE239041.082	%	60 - 130%	114
	BH93(0.2m)	SE239041.083	%	60 - 130%	119
	BH94(0.2m)	SE239041.084	%	60 - 130%	111
	BH95(0.2m)	SE239041.085	%	60 - 130%	112
	BH96(0.7m)	SE239041.086	%	60 - 130%	112
	BH97(0.2m)	SE239041.087	%	60 - 130%	120
	BH98(0.2m)	SE239041.088	%	60 - 130%	118
	BR1	SE239041.089	%	60 - 130%	117
	BR2	SE239041.090	%	60 - 130%	116
	BR3	SE239041.091	%	60 - 130%	118
	BR4	SE239041.092	%	60 - 130%	113
	WD1	SE239041.093	%	60 - 130%	122
	WD2	SE239041.094	%	60 - 130%	112

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	WD1	SE239041.095	%	40 - 130%	29 ④
	WD2	SE239041.096	%	40 - 130%	69
	RIN	SE239041.097	%	40 - 130%	60

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH11(0.2m)	SE239041.001	%	60 - 130%	85
	BH12(0.7m)	SE239041.002	%	60 - 130%	98
	BH13(0.2m)	SE239041.003	%	60 - 130%	94
	BH14(0.2m)	SE239041.004	%	60 - 130%	97
	BH15(0.5m)	SE239041.005	%	60 - 130%	93
	BH16(0.2m)	SE239041.006	%	60 - 130%	71
	BH17(0.7m)	SE239041.007	%	60 - 130%	98
	BH18(0.2m)	SE239041.008	%	60 - 130%	100
	BH19(0.2m)	SE239041.009	%	60 - 130%	92
	BH20(0.2m)	SE239041.010	%	60 - 130%	94
	BH21(0.5m)	SE239041.011	%	60 - 130%	99
	BH22(0.2m)	SE239041.012	%	60 - 130%	98
	BH23(0.2m)	SE239041.013	%	60 - 130%	95
	BH24(0.2m)	SE239041.014	%	60 - 130%	97
	BH25(0.2m)	SE239041.015	%	60 - 130%	77
	BH26(surface sample)	SE239041.016	%	60 - 130%	96
	BH27(0.2m)	SE239041.017	%	60 - 130%	93
	BH28(0.4m)	SE239041.018	%	60 - 130%	96
	BH29(0.5m)	SE239041.019	%	60 - 130%	97
	BH30(0.2m)	SE239041.020	%	60 - 130%	93

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH31(0.2m)	SE239041.021	%	60 - 130%	93
	BH32(0.2m)	SE239041.022	%	60 - 130%	94
	BH33(0.2m)	SE239041.023	%	60 - 130%	94
	BH34(0.2m)	SE239041.024	%	60 - 130%	95
	BH35(0.2m)	SE239041.025	%	60 - 130%	93
	BH36(0.6m)	SE239041.026	%	60 - 130%	92
	BH37(0.6m)	SE239041.027	%	60 - 130%	91
	BH38(0.2m)	SE239041.028	%	60 - 130%	93
	BH39(0.2m)	SE239041.029	%	60 - 130%	94
	BH40(0.2m)	SE239041.030	%	60 - 130%	94
	BH41(0.5m)	SE239041.031	%	60 - 130%	88
	BH42(0.2m)	SE239041.032	%	60 - 130%	93
	BH43(0.2m)	SE239041.033	%	60 - 130%	108
	BH44(0.2m)	SE239041.034	%	60 - 130%	93
	BH45(0.2m)	SE239041.035	%	60 - 130%	85
	BH46(0.2m)	SE239041.036	%	60 - 130%	93
	BH47(0.7m)	SE239041.037	%	60 - 130%	92
	BH48(0.1m)	SE239041.038	%	60 - 130%	95
	BH49(0.5m)	SE239041.039	%	60 - 130%	90
	BH50(0.2m)	SE239041.040	%	60 - 130%	94
	BH51(0.2m)	SE239041.041	%	60 - 130%	95
	BH52(0.7m)	SE239041.042	%	60 - 130%	90
	BH53(0.2m)	SE239041.043	%	60 - 130%	95
	BH54(0.2m)	SE239041.044	%	60 - 130%	90
	BH55(0.7m)	SE239041.045	%	60 - 130%	90
	BH56(0.2m)	SE239041.046	%	60 - 130%	94
	BH57(0.2m)	SE239041.047	%	60 - 130%	94
	BH58(0.2m)	SE239041.048	%	60 - 130%	94
	BH59(0.2m)	SE239041.049	%	60 - 130%	91
	BH60(0.2m)	SE239041.050	%	60 - 130%	78
	BH61(0.5m)	SE239041.051	%	60 - 130%	91
	BH62(0.2m)	SE239041.052	%	60 - 130%	97
	BH63(0.2m)	SE239041.053	%	60 - 130%	94
	BH64(0.2m)	SE239041.054	%	60 - 130%	88
	BH65(0.9m)	SE239041.055	%	60 - 130%	90
	BH66(0.2m)	SE239041.056	%	60 - 130%	92
	BH67(0.2m)	SE239041.057	%	60 - 130%	93
	BH68(0.6m)	SE239041.058	%	60 - 130%	93
	BH69(0.2m)	SE239041.059	%	60 - 130%	104
	BH70(0.2m)	SE239041.060	%	60 - 130%	93
	BH71(0.2m)	SE239041.061	%	60 - 130%	92
	BH72(0.8m)	SE239041.062	%	60 - 130%	92
	BH73(0.2m)	SE239041.063	%	60 - 130%	93
	BH74(0.2m)	SE239041.064	%	60 - 130%	92
	BH75(1.0m)	SE239041.065	%	60 - 130%	92
	BH76(0.2m)	SE239041.066	%	60 - 130%	100
	BH77(0.2m)	SE239041.067	%	60 - 130%	98
	BH78(0.2m)	SE239041.068	%	60 - 130%	94
	BH79(0.2m)	SE239041.069	%	60 - 130%	93
	BH80(0.6m)	SE239041.070	%	60 - 130%	90
	BH81(0.8m)	SE239041.071	%	60 - 130%	91
	BH82(0.2m)	SE239041.072	%	60 - 130%	95
	BH83(0.2m)	SE239041.073	%	60 - 130%	95
	BH84(0.1m)	SE239041.074	%	60 - 130%	99
	BH85(0.2m)	SE239041.075	%	60 - 130%	93
	BH86(0.7m)	SE239041.076	%	60 - 130%	86
	BH87(0.8m)	SE239041.077	%	60 - 130%	95
	BH88(0.2m)	SE239041.078	%	60 - 130%	97
	BH89(0.2m)	SE239041.079	%	60 - 130%	95
	BH90(0.2m)	SE239041.080	%	60 - 130%	95
	BH91(1.0m)	SE239041.081	%	60 - 130%	95

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH92(0.2m)	SE239041.082	%	60 - 130%	95
	BH93(0.2m)	SE239041.083	%	60 - 130%	95
	BH94(0.2m)	SE239041.084	%	60 - 130%	94
	BH95(0.2m)	SE239041.085	%	60 - 130%	95
	BH96(0.7m)	SE239041.086	%	60 - 130%	89
	BH97(0.2m)	SE239041.087	%	60 - 130%	94
	BH98(0.2m)	SE239041.088	%	60 - 130%	97
	BR1	SE239041.089	%	60 - 130%	93
	BR2	SE239041.090	%	60 - 130%	112
	BR3	SE239041.091	%	60 - 130%	94
	BR4	SE239041.092	%	60 - 130%	93
	WD1	SE239041.093	%	60 - 130%	98
	WD2	SE239041.094	%	60 - 130%	99
d14-p-terphenyl (Surrogate)	BH11(0.2m)	SE239041.001	%	60 - 130%	94
	BH12(0.7m)	SE239041.002	%	60 - 130%	102
	BH13(0.2m)	SE239041.003	%	60 - 130%	98
	BH14(0.2m)	SE239041.004	%	60 - 130%	101
	BH15(0.5m)	SE239041.005	%	60 - 130%	98
	BH16(0.2m)	SE239041.006	%	60 - 130%	70
	BH17(0.7m)	SE239041.007	%	60 - 130%	102
	BH18(0.2m)	SE239041.008	%	60 - 130%	104
	BH19(0.2m)	SE239041.009	%	60 - 130%	97
	BH20(0.2m)	SE239041.010	%	60 - 130%	99
	BH21(0.5m)	SE239041.011	%	60 - 130%	101
	BH22(0.2m)	SE239041.012	%	60 - 130%	100
	BH23(0.2m)	SE239041.013	%	60 - 130%	97
	BH24(0.2m)	SE239041.014	%	60 - 130%	101
	BH25(0.2m)	SE239041.015	%	60 - 130%	81
	BH26(surface sample)	SE239041.016	%	60 - 130%	101
	BH27(0.2m)	SE239041.017	%	60 - 130%	97
	BH28(0.4m)	SE239041.018	%	60 - 130%	100
	BH29(0.5m)	SE239041.019	%	60 - 130%	101
	BH30(0.2m)	SE239041.020	%	60 - 130%	96
	BH31(0.2m)	SE239041.021	%	60 - 130%	95
	BH32(0.2m)	SE239041.022	%	60 - 130%	97
	BH33(0.2m)	SE239041.023	%	60 - 130%	96
	BH34(0.2m)	SE239041.024	%	60 - 130%	98
	BH35(0.2m)	SE239041.025	%	60 - 130%	96
	BH36(0.6m)	SE239041.026	%	60 - 130%	96
	BH37(0.6m)	SE239041.027	%	60 - 130%	94
	BH38(0.2m)	SE239041.028	%	60 - 130%	95
	BH39(0.2m)	SE239041.029	%	60 - 130%	97
	BH40(0.2m)	SE239041.030	%	60 - 130%	97
	BH41(0.5m)	SE239041.031	%	60 - 130%	92
	BH42(0.2m)	SE239041.032	%	60 - 130%	97
	BH43(0.2m)	SE239041.033	%	60 - 130%	113
	BH44(0.2m)	SE239041.034	%	60 - 130%	97
	BH45(0.2m)	SE239041.035	%	60 - 130%	88
	BH46(0.2m)	SE239041.036	%	60 - 130%	96
	BH47(0.7m)	SE239041.037	%	60 - 130%	95
	BH48(0.1m)	SE239041.038	%	60 - 130%	98
	BH49(0.5m)	SE239041.039	%	60 - 130%	94
	BH50(0.2m)	SE239041.040	%	60 - 130%	96
	BH51(0.2m)	SE239041.041	%	60 - 130%	99
	BH52(0.7m)	SE239041.042	%	60 - 130%	93
	BH53(0.2m)	SE239041.043	%	60 - 130%	98
	BH54(0.2m)	SE239041.044	%	60 - 130%	93
	BH55(0.7m)	SE239041.045	%	60 - 130%	94
	BH56(0.2m)	SE239041.046	%	60 - 130%	98
	BH57(0.2m)	SE239041.047	%	60 - 130%	97
	BH58(0.2m)	SE239041.048	%	60 - 130%	96

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d14-p-terphenyl (Surrogate)	BH59(0.2m)	SE239041.049	%	60 - 130%	94
	BH60(0.2m)	SE239041.050	%	60 - 130%	72
	BH61(0.5m)	SE239041.051	%	60 - 130%	96
	BH62(0.2m)	SE239041.052	%	60 - 130%	100
	BH63(0.2m)	SE239041.053	%	60 - 130%	96
	BH64(0.2m)	SE239041.054	%	60 - 130%	91
	BH65(0.9m)	SE239041.055	%	60 - 130%	94
	BH66(0.2m)	SE239041.056	%	60 - 130%	96
	BH67(0.2m)	SE239041.057	%	60 - 130%	97
	BH68(0.6m)	SE239041.058	%	60 - 130%	96
	BH69(0.2m)	SE239041.059	%	60 - 130%	108
	BH70(0.2m)	SE239041.060	%	60 - 130%	97
	BH71(0.2m)	SE239041.061	%	60 - 130%	95
	BH72(0.8m)	SE239041.062	%	60 - 130%	96
	BH73(0.2m)	SE239041.063	%	60 - 130%	96
	BH74(0.2m)	SE239041.064	%	60 - 130%	97
	BH75(1.0m)	SE239041.065	%	60 - 130%	95
	BH76(0.2m)	SE239041.066	%	60 - 130%	102
	BH77(0.2m)	SE239041.067	%	60 - 130%	101
	BH78(0.2m)	SE239041.068	%	60 - 130%	97
	BH79(0.2m)	SE239041.069	%	60 - 130%	95
	BH80(0.6m)	SE239041.070	%	60 - 130%	92
	BH81(0.8m)	SE239041.071	%	60 - 130%	93
	BH82(0.2m)	SE239041.072	%	60 - 130%	98
	BH83(0.2m)	SE239041.073	%	60 - 130%	97
	BH84(0.1m)	SE239041.074	%	60 - 130%	100
	BH85(0.2m)	SE239041.075	%	60 - 130%	95
	BH86(0.7m)	SE239041.076	%	60 - 130%	90
	BH87(0.8m)	SE239041.077	%	60 - 130%	99
	BH88(0.2m)	SE239041.078	%	60 - 130%	100
	BH89(0.2m)	SE239041.079	%	60 - 130%	100
	BH90(0.2m)	SE239041.080	%	60 - 130%	99
	BH91(1.0m)	SE239041.081	%	60 - 130%	99
	BH92(0.2m)	SE239041.082	%	60 - 130%	100
	BH93(0.2m)	SE239041.083	%	60 - 130%	99
	BH94(0.2m)	SE239041.084	%	60 - 130%	99
	BH95(0.2m)	SE239041.085	%	60 - 130%	99
	BH96(0.7m)	SE239041.086	%	60 - 130%	96
	BH97(0.2m)	SE239041.087	%	60 - 130%	98
	BH98(0.2m)	SE239041.088	%	60 - 130%	100
	BR1	SE239041.089	%	60 - 130%	97
	BR2	SE239041.090	%	60 - 130%	120
	BR3	SE239041.091	%	60 - 130%	98
	BR4	SE239041.092	%	60 - 130%	98
	WD1	SE239041.093	%	60 - 130%	102
	WD2	SE239041.094	%	60 - 130%	103

OP Pesticides in Water — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	WD1	SE239041.095	%	40 - 130%	26 ④
	WD2	SE239041.096	%	40 - 130%	54
	RIN	SE239041.097	%	40 - 130%	62
d14-p-terphenyl (Surrogate)	WD1	SE239041.095	%	40 - 130%	42
	WD2	SE239041.096	%	40 - 130%	78
	RIN	SE239041.097	%	40 - 130%	76

PAH (Polynuclear Aromatic Hydrocarbons) in Soil — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH11(0.2m)	SE239041.001	%	70 - 130%	85
	BH12(0.7m)	SE239041.002	%	70 - 130%	98
	BH13(0.2m)	SE239041.003	%	70 - 130%	94
	BH14(0.2m)	SE239041.004	%	70 - 130%	97

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH15(0.5m)	SE239041.005	%	70 - 130%	93
	BH16(0.2m)	SE239041.006	%	70 - 130%	71
	BH17(0.7m)	SE239041.007	%	70 - 130%	98
	BH18(0.2m)	SE239041.008	%	70 - 130%	100
	BH19(0.2m)	SE239041.009	%	70 - 130%	92
	BH20(0.2m)	SE239041.010	%	70 - 130%	94
	BH21(0.5m)	SE239041.011	%	70 - 130%	99
	BH22(0.2m)	SE239041.012	%	70 - 130%	98
	BH23(0.2m)	SE239041.013	%	70 - 130%	95
	BH24(0.2m)	SE239041.014	%	70 - 130%	97
	BH25(0.2m)	SE239041.015	%	70 - 130%	77
	BH26(surface sample)	SE239041.016	%	70 - 130%	96
	BH27(0.2m)	SE239041.017	%	70 - 130%	93
	BH28(0.4m)	SE239041.018	%	70 - 130%	96
	BH29(0.5m)	SE239041.019	%	70 - 130%	97
	BH30(0.2m)	SE239041.020	%	70 - 130%	93
	BH31(0.2m)	SE239041.021	%	70 - 130%	93
	BH32(0.2m)	SE239041.022	%	70 - 130%	94
	BH33(0.2m)	SE239041.023	%	70 - 130%	94
	BH34(0.2m)	SE239041.024	%	70 - 130%	95
	BH35(0.2m)	SE239041.025	%	70 - 130%	93
	BH36(0.6m)	SE239041.026	%	70 - 130%	92
	BH37(0.6m)	SE239041.027	%	70 - 130%	91
	BH38(0.2m)	SE239041.028	%	70 - 130%	93
	BH39(0.2m)	SE239041.029	%	70 - 130%	94
	BH40(0.2m)	SE239041.030	%	70 - 130%	94
	BH41(0.5m)	SE239041.031	%	70 - 130%	88
	BH42(0.2m)	SE239041.032	%	70 - 130%	93
	BH43(0.2m)	SE239041.033	%	70 - 130%	108
	BH44(0.2m)	SE239041.034	%	70 - 130%	93
	BH45(0.2m)	SE239041.035	%	70 - 130%	85
	BH46(0.2m)	SE239041.036	%	70 - 130%	93
	BH47(0.7m)	SE239041.037	%	70 - 130%	92
	BH48(0.1m)	SE239041.038	%	70 - 130%	95
	BH49(0.5m)	SE239041.039	%	70 - 130%	90
	BH50(0.2m)	SE239041.040	%	70 - 130%	94
	BH51(0.2m)	SE239041.041	%	70 - 130%	95
	BH52(0.7m)	SE239041.042	%	70 - 130%	90
	BH53(0.2m)	SE239041.043	%	70 - 130%	95
	BH54(0.2m)	SE239041.044	%	70 - 130%	90
	BH55(0.7m)	SE239041.045	%	70 - 130%	90
	BH56(0.2m)	SE239041.046	%	70 - 130%	94
	BH57(0.2m)	SE239041.047	%	70 - 130%	94
	BH58(0.2m)	SE239041.048	%	70 - 130%	94
	BH59(0.2m)	SE239041.049	%	70 - 130%	91
	BH60(0.2m)	SE239041.050	%	70 - 130%	78
	BH61(0.5m)	SE239041.051	%	70 - 130%	91
	BH62(0.2m)	SE239041.052	%	70 - 130%	97
	BH63(0.2m)	SE239041.053	%	70 - 130%	94
	BH64(0.2m)	SE239041.054	%	70 - 130%	88
	BH65(0.9m)	SE239041.055	%	70 - 130%	90
	BH66(0.2m)	SE239041.056	%	70 - 130%	92
	BH67(0.2m)	SE239041.057	%	70 - 130%	93
	BH68(0.6m)	SE239041.058	%	70 - 130%	93
	BH69(0.2m)	SE239041.059	%	70 - 130%	104
	BH70(0.2m)	SE239041.060	%	70 - 130%	93
	BH71(0.2m)	SE239041.061	%	70 - 130%	92
	BH72(0.8m)	SE239041.062	%	70 - 130%	92
	BH73(0.2m)	SE239041.063	%	70 - 130%	93
	BH74(0.2m)	SE239041.064	%	70 - 130%	92
	BH75(1.0m)	SE239041.065	%	70 - 130%	92

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	BH76(0.2m)	SE239041.066	%	70 - 130%	100
	BH77(0.2m)	SE239041.067	%	70 - 130%	98
	BH78(0.2m)	SE239041.068	%	70 - 130%	94
	BH79(0.2m)	SE239041.069	%	70 - 130%	93
	BH80(0.6m)	SE239041.070	%	70 - 130%	90
	BH81(0.8m)	SE239041.071	%	70 - 130%	91
	BH82(0.2m)	SE239041.072	%	70 - 130%	95
	BH83(0.2m)	SE239041.073	%	70 - 130%	95
	BH84(0.1m)	SE239041.074	%	70 - 130%	99
	BH85(0.2m)	SE239041.075	%	70 - 130%	93
	BH86(0.7m)	SE239041.076	%	70 - 130%	86
	BH87(0.8m)	SE239041.077	%	70 - 130%	95
	BH88(0.2m)	SE239041.078	%	70 - 130%	97
	BH89(0.2m)	SE239041.079	%	70 - 130%	95
	BH90(0.2m)	SE239041.080	%	70 - 130%	95
	BH91(1.0m)	SE239041.081	%	70 - 130%	95
	BH92(0.2m)	SE239041.082	%	70 - 130%	95
	BH93(0.2m)	SE239041.083	%	70 - 130%	95
	BH94(0.2m)	SE239041.084	%	70 - 130%	94
	BH95(0.2m)	SE239041.085	%	70 - 130%	95
	BH96(0.7m)	SE239041.086	%	70 - 130%	89
	BH97(0.2m)	SE239041.087	%	70 - 130%	94
	BH98(0.2m)	SE239041.088	%	70 - 130%	97
	BR1	SE239041.089	%	70 - 130%	93
	BR2	SE239041.090	%	70 - 130%	112
	BR3	SE239041.091	%	70 - 130%	94
	BR4	SE239041.092	%	70 - 130%	93
	WD1	SE239041.093	%	70 - 130%	98
	WD2	SE239041.094	%	70 - 130%	99
d14-p-terphenyl (Surrogate)	BH11(0.2m)	SE239041.001	%	70 - 130%	94
	BH12(0.7m)	SE239041.002	%	70 - 130%	102
	BH13(0.2m)	SE239041.003	%	70 - 130%	98
	BH14(0.2m)	SE239041.004	%	70 - 130%	101
	BH15(0.5m)	SE239041.005	%	70 - 130%	98
	BH16(0.2m)	SE239041.006	%	70 - 130%	70
	BH17(0.7m)	SE239041.007	%	70 - 130%	102
	BH18(0.2m)	SE239041.008	%	70 - 130%	104
	BH19(0.2m)	SE239041.009	%	70 - 130%	97
	BH20(0.2m)	SE239041.010	%	70 - 130%	99
	BH21(0.5m)	SE239041.011	%	70 - 130%	101
	BH22(0.2m)	SE239041.012	%	70 - 130%	100
	BH23(0.2m)	SE239041.013	%	70 - 130%	97
	BH24(0.2m)	SE239041.014	%	70 - 130%	101
	BH25(0.2m)	SE239041.015	%	70 - 130%	81
	BH26(surface sample)	SE239041.016	%	70 - 130%	101
	BH27(0.2m)	SE239041.017	%	70 - 130%	97
	BH28(0.4m)	SE239041.018	%	70 - 130%	100
	BH29(0.5m)	SE239041.019	%	70 - 130%	101
	BH30(0.2m)	SE239041.020	%	70 - 130%	96
	BH31(0.2m)	SE239041.021	%	70 - 130%	95
	BH32(0.2m)	SE239041.022	%	70 - 130%	97
	BH33(0.2m)	SE239041.023	%	70 - 130%	96
	BH34(0.2m)	SE239041.024	%	70 - 130%	98
	BH35(0.2m)	SE239041.025	%	70 - 130%	96
	BH36(0.6m)	SE239041.026	%	70 - 130%	96
	BH37(0.6m)	SE239041.027	%	70 - 130%	94
	BH38(0.2m)	SE239041.028	%	70 - 130%	95
	BH39(0.2m)	SE239041.029	%	70 - 130%	97
	BH40(0.2m)	SE239041.030	%	70 - 130%	97
	BH41(0.5m)	SE239041.031	%	70 - 130%	92
	BH42(0.2m)	SE239041.032	%	70 - 130%	97

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d14-p-terphenyl (Surrogate)	BH43(0.2m)	SE239041.033	%	70 - 130%	113
	BH44(0.2m)	SE239041.034	%	70 - 130%	97
	BH45(0.2m)	SE239041.035	%	70 - 130%	88
	BH46(0.2m)	SE239041.036	%	70 - 130%	96
	BH47(0.7m)	SE239041.037	%	70 - 130%	95
	BH48(0.1m)	SE239041.038	%	70 - 130%	98
	BH49(0.5m)	SE239041.039	%	70 - 130%	94
	BH50(0.2m)	SE239041.040	%	70 - 130%	96
	BH51(0.2m)	SE239041.041	%	70 - 130%	99
	BH52(0.7m)	SE239041.042	%	70 - 130%	93
	BH53(0.2m)	SE239041.043	%	70 - 130%	98
	BH54(0.2m)	SE239041.044	%	70 - 130%	93
	BH55(0.7m)	SE239041.045	%	70 - 130%	94
	BH56(0.2m)	SE239041.046	%	70 - 130%	98
	BH57(0.2m)	SE239041.047	%	70 - 130%	97
	BH58(0.2m)	SE239041.048	%	70 - 130%	96
	BH59(0.2m)	SE239041.049	%	70 - 130%	94
	BH60(0.2m)	SE239041.050	%	70 - 130%	72
	BH61(0.5m)	SE239041.051	%	70 - 130%	96
	BH62(0.2m)	SE239041.052	%	70 - 130%	100
	BH63(0.2m)	SE239041.053	%	70 - 130%	96
	BH64(0.2m)	SE239041.054	%	70 - 130%	91
	BH65(0.9m)	SE239041.055	%	70 - 130%	94
	BH66(0.2m)	SE239041.056	%	70 - 130%	96
	BH67(0.2m)	SE239041.057	%	70 - 130%	97
	BH68(0.6m)	SE239041.058	%	70 - 130%	96
	BH69(0.2m)	SE239041.059	%	70 - 130%	108
	BH70(0.2m)	SE239041.060	%	70 - 130%	97
	BH71(0.2m)	SE239041.061	%	70 - 130%	95
	BH72(0.8m)	SE239041.062	%	70 - 130%	96
	BH73(0.2m)	SE239041.063	%	70 - 130%	96
	BH74(0.2m)	SE239041.064	%	70 - 130%	97
	BH75(1.0m)	SE239041.065	%	70 - 130%	95
	BH76(0.2m)	SE239041.066	%	70 - 130%	102
	BH77(0.2m)	SE239041.067	%	70 - 130%	101
	BH78(0.2m)	SE239041.068	%	70 - 130%	97
	BH79(0.2m)	SE239041.069	%	70 - 130%	95
	BH80(0.6m)	SE239041.070	%	70 - 130%	92
	BH81(0.8m)	SE239041.071	%	70 - 130%	93
	BH82(0.2m)	SE239041.072	%	70 - 130%	98
	BH83(0.2m)	SE239041.073	%	70 - 130%	97
	BH84(0.1m)	SE239041.074	%	70 - 130%	100
	BH85(0.2m)	SE239041.075	%	70 - 130%	95
	BH86(0.7m)	SE239041.076	%	70 - 130%	90
	BH87(0.8m)	SE239041.077	%	70 - 130%	99
	BH88(0.2m)	SE239041.078	%	70 - 130%	100
	BH89(0.2m)	SE239041.079	%	70 - 130%	100
	BH90(0.2m)	SE239041.080	%	70 - 130%	99
	BH91(1.0m)	SE239041.081	%	70 - 130%	99
	BH92(0.2m)	SE239041.082	%	70 - 130%	100
	BH93(0.2m)	SE239041.083	%	70 - 130%	99
	BH94(0.2m)	SE239041.084	%	70 - 130%	99
	BH95(0.2m)	SE239041.085	%	70 - 130%	99
	BH96(0.7m)	SE239041.086	%	70 - 130%	96
	BH97(0.2m)	SE239041.087	%	70 - 130%	98
	BH98(0.2m)	SE239041.088	%	70 - 130%	100
	BR1	SE239041.089	%	70 - 130%	97
	BR2	SE239041.090	%	70 - 130%	120
	BR3	SE239041.091	%	70 - 130%	98
	BR4	SE239041.092	%	70 - 130%	98
	WD1	SE239041.093	%	70 - 130%	102

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d14-p-terphenyl (Surrogate)	WD2	SE239041.094	%	70 - 130%	103
d5-nitrobenzene (Surrogate)	BH11(0.2m)	SE239041.001	%	70 - 130%	99
	BH12(0.7m)	SE239041.002	%	70 - 130%	111
	BH13(0.2m)	SE239041.003	%	70 - 130%	109
	BH14(0.2m)	SE239041.004	%	70 - 130%	108
	BH15(0.5m)	SE239041.005	%	70 - 130%	104
	BH16(0.2m)	SE239041.006	%	70 - 130%	75
	BH17(0.7m)	SE239041.007	%	70 - 130%	111
	BH18(0.2m)	SE239041.008	%	70 - 130%	114
	BH19(0.2m)	SE239041.009	%	70 - 130%	102
	BH20(0.2m)	SE239041.010	%	70 - 130%	107
	BH21(0.5m)	SE239041.011	%	70 - 130%	110
	BH22(0.2m)	SE239041.012	%	70 - 130%	110
	BH23(0.2m)	SE239041.013	%	70 - 130%	103
	BH24(0.2m)	SE239041.014	%	70 - 130%	109
	BH25(0.2m)	SE239041.015	%	70 - 130%	88
	BH26(surface sample)	SE239041.016	%	70 - 130%	108
	BH27(0.2m)	SE239041.017	%	70 - 130%	104
	BH28(0.4m)	SE239041.018	%	70 - 130%	108
	BH29(0.5m)	SE239041.019	%	70 - 130%	109
	BH30(0.2m)	SE239041.020	%	70 - 130%	106
	BH31(0.2m)	SE239041.021	%	70 - 130%	106
	BH32(0.2m)	SE239041.022	%	70 - 130%	108
	BH33(0.2m)	SE239041.023	%	70 - 130%	106
	BH34(0.2m)	SE239041.024	%	70 - 130%	108
	BH35(0.2m)	SE239041.025	%	70 - 130%	106
	BH36(0.6m)	SE239041.026	%	70 - 130%	106
	BH37(0.6m)	SE239041.027	%	70 - 130%	104
	BH38(0.2m)	SE239041.028	%	70 - 130%	105
	BH39(0.2m)	SE239041.029	%	70 - 130%	110
	BH40(0.2m)	SE239041.030	%	70 - 130%	108
	BH41(0.5m)	SE239041.031	%	70 - 130%	101
	BH42(0.2m)	SE239041.032	%	70 - 130%	105
	BH43(0.2m)	SE239041.033	%	70 - 130%	121
	BH44(0.2m)	SE239041.034	%	70 - 130%	105
	BH45(0.2m)	SE239041.035	%	70 - 130%	95
	BH46(0.2m)	SE239041.036	%	70 - 130%	104
	BH47(0.7m)	SE239041.037	%	70 - 130%	105
	BH48(0.1m)	SE239041.038	%	70 - 130%	108
	BH49(0.5m)	SE239041.039	%	70 - 130%	101
	BH50(0.2m)	SE239041.040	%	70 - 130%	104
	BH51(0.2m)	SE239041.041	%	70 - 130%	107
	BH52(0.7m)	SE239041.042	%	70 - 130%	104
	BH53(0.2m)	SE239041.043	%	70 - 130%	106
	BH54(0.2m)	SE239041.044	%	70 - 130%	103
	BH55(0.7m)	SE239041.045	%	70 - 130%	102
	BH56(0.2m)	SE239041.046	%	70 - 130%	105
	BH57(0.2m)	SE239041.047	%	70 - 130%	106
	BH58(0.2m)	SE239041.048	%	70 - 130%	106
	BH59(0.2m)	SE239041.049	%	70 - 130%	107
	BH60(0.2m)	SE239041.050	%	70 - 130%	71
	BH61(0.5m)	SE239041.051	%	70 - 130%	107
	BH62(0.2m)	SE239041.052	%	70 - 130%	110
	BH63(0.2m)	SE239041.053	%	70 - 130%	107
	BH64(0.2m)	SE239041.054	%	70 - 130%	101
	BH65(0.9m)	SE239041.055	%	70 - 130%	103
	BH66(0.2m)	SE239041.056	%	70 - 130%	101
	BH67(0.2m)	SE239041.057	%	70 - 130%	106
	BH68(0.6m)	SE239041.058	%	70 - 130%	104
	BH69(0.2m)	SE239041.059	%	70 - 130%	118
	BH70(0.2m)	SE239041.060	%	70 - 130%	109

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d5-nitrobenzene (Surrogate)	BH71(0.2m)	SE239041.061	%	70 - 130%	106
	BH72(0.8m)	SE239041.062	%	70 - 130%	105
	BH73(0.2m)	SE239041.063	%	70 - 130%	108
	BH74(0.2m)	SE239041.064	%	70 - 130%	105
	BH75(1.0m)	SE239041.065	%	70 - 130%	104
	BH76(0.2m)	SE239041.066	%	70 - 130%	113
	BH77(0.2m)	SE239041.067	%	70 - 130%	112
	BH78(0.2m)	SE239041.068	%	70 - 130%	107
	BH79(0.2m)	SE239041.069	%	70 - 130%	109
	BH80(0.6m)	SE239041.070	%	70 - 130%	105
	BH81(0.8m)	SE239041.071	%	70 - 130%	104
	BH82(0.2m)	SE239041.072	%	70 - 130%	108
	BH83(0.2m)	SE239041.073	%	70 - 130%	107
	BH84(0.1m)	SE239041.074	%	70 - 130%	113
	BH85(0.2m)	SE239041.075	%	70 - 130%	107
	BH86(0.7m)	SE239041.076	%	70 - 130%	100
	BH87(0.8m)	SE239041.077	%	70 - 130%	106
	BH88(0.2m)	SE239041.078	%	70 - 130%	108
	BH89(0.2m)	SE239041.079	%	70 - 130%	105
	BH90(0.2m)	SE239041.080	%	70 - 130%	104
	BH91(1.0m)	SE239041.081	%	70 - 130%	105
	BH92(0.2m)	SE239041.082	%	70 - 130%	104
	BH93(0.2m)	SE239041.083	%	70 - 130%	105
	BH94(0.2m)	SE239041.084	%	70 - 130%	106
	BH95(0.2m)	SE239041.085	%	70 - 130%	104
	BH96(0.7m)	SE239041.086	%	70 - 130%	100
	BH97(0.2m)	SE239041.087	%	70 - 130%	102
	BH98(0.2m)	SE239041.088	%	70 - 130%	106
	BR1	SE239041.089	%	70 - 130%	104
	BR2	SE239041.090	%	70 - 130%	129
	BR3	SE239041.091	%	70 - 130%	104
	BR4	SE239041.092	%	70 - 130%	103
	WD1	SE239041.093	%	70 - 130%	108
	WD2	SE239041.094	%	70 - 130%	110

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	WD1	SE239041.095	%	40 - 130%	26 ④
	WD2	SE239041.096	%	40 - 130%	54
	RIN	SE239041.097	%	40 - 130%	62
d14-p-terphenyl (Surrogate)	WD1	SE239041.095	%	40 - 130%	42
	WD2	SE239041.096	%	40 - 130%	78
	RIN	SE239041.097	%	40 - 130%	76
d5-nitrobenzene (Surrogate)	WD1	SE239041.095	%	40 - 130%	24 ④
	WD2	SE239041.096	%	40 - 130%	46
	RIN	SE239041.097	%	40 - 130%	56

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH11(0.2m)	SE239041.001	%	60 - 130%	109
	BH12(0.7m)	SE239041.002	%	60 - 130%	108
	BH13(0.2m)	SE239041.003	%	60 - 130%	108
	BH14(0.2m)	SE239041.004	%	60 - 130%	110
	BH15(0.5m)	SE239041.005	%	60 - 130%	103
	BH16(0.2m)	SE239041.006	%	60 - 130%	113
	BH17(0.7m)	SE239041.007	%	60 - 130%	108
	BH18(0.2m)	SE239041.008	%	60 - 130%	109
	BH19(0.2m)	SE239041.009	%	60 - 130%	101
	BH20(0.2m)	SE239041.010	%	60 - 130%	102
	BH21(0.5m)	SE239041.011	%	60 - 130%	97
	BH22(0.2m)	SE239041.012	%	60 - 130%	96
	BH23(0.2m)	SE239041.013	%	60 - 130%	87

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH24(0.2m)	SE239041.014	%	60 - 130%	90
	BH25(0.2m)	SE239041.015	%	60 - 130%	83
	BH26(surface sample)	SE239041.016	%	60 - 130%	90
	BH27(0.2m)	SE239041.017	%	60 - 130%	85
	BH28(0.4m)	SE239041.018	%	60 - 130%	92
	BH29(0.5m)	SE239041.019	%	60 - 130%	93
	BH30(0.2m)	SE239041.020	%	60 - 130%	108
	BH31(0.2m)	SE239041.021	%	60 - 130%	113
	BH32(0.2m)	SE239041.022	%	60 - 130%	115
	BH33(0.2m)	SE239041.023	%	60 - 130%	110
	BH34(0.2m)	SE239041.024	%	60 - 130%	119
	BH35(0.2m)	SE239041.025	%	60 - 130%	128
	BH36(0.6m)	SE239041.026	%	60 - 130%	107
	BH37(0.6m)	SE239041.027	%	60 - 130%	107
	BH38(0.2m)	SE239041.028	%	60 - 130%	119
	BH39(0.2m)	SE239041.029	%	60 - 130%	109
	BH40(0.2m)	SE239041.030	%	60 - 130%	109
	BH41(0.5m)	SE239041.031	%	60 - 130%	109
	BH42(0.2m)	SE239041.032	%	60 - 130%	115
	BH43(0.2m)	SE239041.033	%	60 - 130%	109
	BH44(0.2m)	SE239041.034	%	60 - 130%	109
	BH45(0.2m)	SE239041.035	%	60 - 130%	108
	BH46(0.2m)	SE239041.036	%	60 - 130%	111
	BH47(0.7m)	SE239041.037	%	60 - 130%	102
	BH48(0.1m)	SE239041.038	%	60 - 130%	109
	BH49(0.5m)	SE239041.039	%	60 - 130%	99
	BH50(0.2m)	SE239041.040	%	60 - 130%	108
	BH51(0.2m)	SE239041.041	%	60 - 130%	112
	BH52(0.7m)	SE239041.042	%	60 - 130%	102
	BH53(0.2m)	SE239041.043	%	60 - 130%	109
	BH54(0.2m)	SE239041.044	%	60 - 130%	103
	BH55(0.7m)	SE239041.045	%	60 - 130%	101
	BH56(0.2m)	SE239041.046	%	60 - 130%	108
	BH57(0.2m)	SE239041.047	%	60 - 130%	110
	BH58(0.2m)	SE239041.048	%	60 - 130%	110
	BH59(0.2m)	SE239041.049	%	60 - 130%	104
	BH60(0.2m)	SE239041.050	%	60 - 130%	105
	BH61(0.5m)	SE239041.051	%	60 - 130%	104
	BH62(0.2m)	SE239041.052	%	60 - 130%	106
	BH63(0.2m)	SE239041.053	%	60 - 130%	112
	BH64(0.2m)	SE239041.054	%	60 - 130%	99
	BH65(0.9m)	SE239041.055	%	60 - 130%	104
	BH66(0.2m)	SE239041.056	%	60 - 130%	109
	BH67(0.2m)	SE239041.057	%	60 - 130%	105
	BH68(0.6m)	SE239041.058	%	60 - 130%	106
	BH69(0.2m)	SE239041.059	%	60 - 130%	116
	BH70(0.2m)	SE239041.060	%	60 - 130%	113
	BH71(0.2m)	SE239041.061	%	60 - 130%	111
	BH72(0.8m)	SE239041.062	%	60 - 130%	109
	BH73(0.2m)	SE239041.063	%	60 - 130%	118
	BH74(0.2m)	SE239041.064	%	60 - 130%	107
	BH75(1.0m)	SE239041.065	%	60 - 130%	105
	BH76(0.2m)	SE239041.066	%	60 - 130%	112
	BH77(0.2m)	SE239041.067	%	60 - 130%	108
	BH78(0.2m)	SE239041.068	%	60 - 130%	112
	BH79(0.2m)	SE239041.069	%	60 - 130%	110
	BH80(0.6m)	SE239041.070	%	60 - 130%	111
	BH81(0.8m)	SE239041.071	%	60 - 130%	107
	BH82(0.2m)	SE239041.072	%	60 - 130%	109
	BH83(0.2m)	SE239041.073	%	60 - 130%	120
	BH84(0.1m)	SE239041.074	%	60 - 130%	108

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	BH85(0.2m)	SE239041.075	%	60 - 130%	106
	BH86(0.7m)	SE239041.076	%	60 - 130%	106
	BH87(0.8m)	SE239041.077	%	60 - 130%	113
	BH88(0.2m)	SE239041.078	%	60 - 130%	113
	BH89(0.2m)	SE239041.079	%	60 - 130%	111
	BH90(0.2m)	SE239041.080	%	60 - 130%	111
	BH91(1.0m)	SE239041.081	%	60 - 130%	106
	BH92(0.2m)	SE239041.082	%	60 - 130%	114
	BH93(0.2m)	SE239041.083	%	60 - 130%	119
	BH94(0.2m)	SE239041.084	%	60 - 130%	111
	BH95(0.2m)	SE239041.085	%	60 - 130%	112
	BH96(0.7m)	SE239041.086	%	60 - 130%	112
	BH97(0.2m)	SE239041.087	%	60 - 130%	120
	BH98(0.2m)	SE239041.088	%	60 - 130%	118
	BR1	SE239041.089	%	60 - 130%	117
	BR2	SE239041.090	%	60 - 130%	116
	BR3	SE239041.091	%	60 - 130%	118
	BR4	SE239041.092	%	60 - 130%	113
	WD1	SE239041.093	%	60 - 130%	122
	WD2	SE239041.094	%	60 - 130%	112

PCBs in Water — Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	WD1	SE239041.095	%	40 - 130%	29 ⓓ
	WD2	SE239041.096	%	40 - 130%	69
	RIN	SE239041.097	%	40 - 130%	60

VOC's in Soil — Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH11(0.2m)	SE239041.001	%	60 - 130%	83
	BH12(0.7m)	SE239041.002	%	60 - 130%	96
	BH13(0.2m)	SE239041.003	%	60 - 130%	103
	BH14(0.2m)	SE239041.004	%	60 - 130%	86
	BH15(0.5m)	SE239041.005	%	60 - 130%	101
	BH16(0.2m)	SE239041.006	%	60 - 130%	97
	BH17(0.7m)	SE239041.007	%	60 - 130%	94
	BH18(0.2m)	SE239041.008	%	60 - 130%	102
	BH19(0.2m)	SE239041.009	%	60 - 130%	95
	BH20(0.2m)	SE239041.010	%	60 - 130%	99
	BH21(0.5m)	SE239041.011	%	60 - 130%	96
	BH22(0.2m)	SE239041.012	%	60 - 130%	92
	BH23(0.2m)	SE239041.013	%	60 - 130%	92
	BH24(0.2m)	SE239041.014	%	60 - 130%	91
	BH25(0.2m)	SE239041.015	%	60 - 130%	83
	BH26(surface sample)	SE239041.016	%	60 - 130%	91
	BH27(0.2m)	SE239041.017	%	60 - 130%	91
	BH28(0.4m)	SE239041.018	%	60 - 130%	96
	BH29(0.5m)	SE239041.019	%	60 - 130%	98
	BH30(0.2m)	SE239041.020	%	60 - 130%	79
	BH31(0.2m)	SE239041.021	%	60 - 130%	79
	BH32(0.2m)	SE239041.022	%	60 - 130%	78
	BH33(0.2m)	SE239041.023	%	60 - 130%	77
	BH34(0.2m)	SE239041.024	%	60 - 130%	75
	BH35(0.2m)	SE239041.025	%	60 - 130%	77
	BH36(0.6m)	SE239041.026	%	60 - 130%	80
	BH37(0.6m)	SE239041.027	%	60 - 130%	81
	BH38(0.2m)	SE239041.028	%	60 - 130%	74
	BH39(0.2m)	SE239041.029	%	60 - 130%	78
	BH40(0.2m)	SE239041.030	%	60 - 130%	70
	BH41(0.5m)	SE239041.031	%	60 - 130%	78
	BH42(0.2m)	SE239041.032	%	60 - 130%	78
	BH43(0.2m)	SE239041.033	%	60 - 130%	75

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH44(0.2m)	SE239041.034	%	60 - 130%	81
	BH45(0.2m)	SE239041.035	%	60 - 130%	78
	BH46(0.2m)	SE239041.036	%	60 - 130%	75
	BH47(0.7m)	SE239041.037	%	60 - 130%	79
	BH48(0.1m)	SE239041.038	%	60 - 130%	76
	BH49(0.5m)	SE239041.039	%	60 - 130%	97
	BH50(0.2m)	SE239041.040	%	60 - 130%	98
	BH51(0.2m)	SE239041.041	%	60 - 130%	89
	BH52(0.7m)	SE239041.042	%	60 - 130%	89
	BH53(0.2m)	SE239041.043	%	60 - 130%	87
	BH54(0.2m)	SE239041.044	%	60 - 130%	96
	BH55(0.7m)	SE239041.045	%	60 - 130%	93
	BH56(0.2m)	SE239041.046	%	60 - 130%	90
	BH57(0.2m)	SE239041.047	%	60 - 130%	91
	BH58(0.2m)	SE239041.048	%	60 - 130%	92
	BH59(0.2m)	SE239041.049	%	60 - 130%	86
	BH60(0.2m)	SE239041.050	%	60 - 130%	98
	BH61(0.5m)	SE239041.051	%	60 - 130%	91
	BH62(0.2m)	SE239041.052	%	60 - 130%	97
	BH63(0.2m)	SE239041.053	%	60 - 130%	78
	BH64(0.2m)	SE239041.054	%	60 - 130%	92
	BH65(0.9m)	SE239041.055	%	60 - 130%	99
	BH66(0.2m)	SE239041.056	%	60 - 130%	92
	BH67(0.2m)	SE239041.057	%	60 - 130%	92
	BH68(0.6m)	SE239041.058	%	60 - 130%	85
	BH69(0.2m)	SE239041.059	%	60 - 130%	79
	BH70(0.2m)	SE239041.060	%	60 - 130%	79
	BH71(0.2m)	SE239041.061	%	60 - 130%	75
	BH72(0.8m)	SE239041.062	%	60 - 130%	74
	BH73(0.2m)	SE239041.063	%	60 - 130%	75
	BH74(0.2m)	SE239041.064	%	60 - 130%	77
	BH75(1.0m)	SE239041.065	%	60 - 130%	80
	BH76(0.2m)	SE239041.066	%	60 - 130%	76
	BH77(0.2m)	SE239041.067	%	60 - 130%	80
	BH78(0.2m)	SE239041.068	%	60 - 130%	80
	BH79(0.2m)	SE239041.069	%	60 - 130%	78
	BH80(0.6m)	SE239041.070	%	60 - 130%	76
	BH81(0.8m)	SE239041.071	%	60 - 130%	76
	BH82(0.2m)	SE239041.072	%	60 - 130%	73
	BH83(0.2m)	SE239041.073	%	60 - 130%	78
	BH84(0.1m)	SE239041.074	%	60 - 130%	78
	BH85(0.2m)	SE239041.075	%	60 - 130%	81
	BH86(0.7m)	SE239041.076	%	60 - 130%	83
	BH87(0.8m)	SE239041.077	%	60 - 130%	101
	BH88(0.2m)	SE239041.078	%	60 - 130%	95
	BH89(0.2m)	SE239041.079	%	60 - 130%	108
	BH90(0.2m)	SE239041.080	%	60 - 130%	103
	BH91(1.0m)	SE239041.081	%	60 - 130%	107
	BH92(0.2m)	SE239041.082	%	60 - 130%	93
	BH93(0.2m)	SE239041.083	%	60 - 130%	99
	BH94(0.2m)	SE239041.084	%	60 - 130%	99
	BH95(0.2m)	SE239041.085	%	60 - 130%	103
	BH96(0.7m)	SE239041.086	%	60 - 130%	101
	BH97(0.2m)	SE239041.087	%	60 - 130%	94
	BH98(0.2m)	SE239041.088	%	60 - 130%	96
	BR1	SE239041.089	%	60 - 130%	99
	BR2	SE239041.090	%	60 - 130%	93
	BR3	SE239041.091	%	60 - 130%	96
	BR4	SE239041.092	%	60 - 130%	94
	WD1	SE239041.093	%	60 - 130%	79
	WD2	SE239041.094	%	60 - 130%	85

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	TRIP BLANK	SE239041.098	%	60 - 130%	97
	TRP SPIKE	SE239041.099	%	60 - 130%	85
d4-1,2-dichloroethane (Surrogate)	BH11(0.2m)	SE239041.001	%	60 - 130%	100
	BH12(0.7m)	SE239041.002	%	60 - 130%	116
	BH13(0.2m)	SE239041.003	%	60 - 130%	123
	BH14(0.2m)	SE239041.004	%	60 - 130%	111
	BH15(0.5m)	SE239041.005	%	60 - 130%	120
	BH16(0.2m)	SE239041.006	%	60 - 130%	120
	BH17(0.7m)	SE239041.007	%	60 - 130%	118
	BH18(0.2m)	SE239041.008	%	60 - 130%	129
	BH19(0.2m)	SE239041.009	%	60 - 130%	118
	BH20(0.2m)	SE239041.010	%	60 - 130%	126
	BH21(0.5m)	SE239041.011	%	60 - 130%	123
	BH22(0.2m)	SE239041.012	%	60 - 130%	121
	BH23(0.2m)	SE239041.013	%	60 - 130%	122
	BH24(0.2m)	SE239041.014	%	60 - 130%	120
	BH25(0.2m)	SE239041.015	%	60 - 130%	110
	BH26(surface sample)	SE239041.016	%	60 - 130%	121
	BH27(0.2m)	SE239041.017	%	60 - 130%	120
	BH28(0.4m)	SE239041.018	%	60 - 130%	135 ①
	BH29(0.5m)	SE239041.019	%	60 - 130%	129
	BH30(0.2m)	SE239041.020	%	60 - 130%	86
	BH31(0.2m)	SE239041.021	%	60 - 130%	86
	BH32(0.2m)	SE239041.022	%	60 - 130%	86
	BH33(0.2m)	SE239041.023	%	60 - 130%	86
	BH34(0.2m)	SE239041.024	%	60 - 130%	85
	BH35(0.2m)	SE239041.025	%	60 - 130%	87
	BH36(0.6m)	SE239041.026	%	60 - 130%	91
	BH37(0.6m)	SE239041.027	%	60 - 130%	90
	BH38(0.2m)	SE239041.028	%	60 - 130%	85
	BH39(0.2m)	SE239041.029	%	60 - 130%	88
	BH40(0.2m)	SE239041.030	%	60 - 130%	79
	BH41(0.5m)	SE239041.031	%	60 - 130%	87
	BH42(0.2m)	SE239041.032	%	60 - 130%	91
	BH43(0.2m)	SE239041.033	%	60 - 130%	85
	BH44(0.2m)	SE239041.034	%	60 - 130%	90
	BH45(0.2m)	SE239041.035	%	60 - 130%	90
	BH46(0.2m)	SE239041.036	%	60 - 130%	87
	BH47(0.7m)	SE239041.037	%	60 - 130%	88
	BH48(0.1m)	SE239041.038	%	60 - 130%	86
	BH49(0.5m)	SE239041.039	%	60 - 130%	96
	BH50(0.2m)	SE239041.040	%	60 - 130%	102
	BH51(0.2m)	SE239041.041	%	60 - 130%	92
	BH52(0.7m)	SE239041.042	%	60 - 130%	89
	BH53(0.2m)	SE239041.043	%	60 - 130%	88
	BH54(0.2m)	SE239041.044	%	60 - 130%	97
	BH55(0.7m)	SE239041.045	%	60 - 130%	93
	BH56(0.2m)	SE239041.046	%	60 - 130%	91
	BH57(0.2m)	SE239041.047	%	60 - 130%	95
	BH58(0.2m)	SE239041.048	%	60 - 130%	94
	BH59(0.2m)	SE239041.049	%	60 - 130%	87
	BH60(0.2m)	SE239041.050	%	60 - 130%	98
	BH61(0.5m)	SE239041.051	%	60 - 130%	91
	BH62(0.2m)	SE239041.052	%	60 - 130%	98
	BH63(0.2m)	SE239041.053	%	60 - 130%	80
	BH64(0.2m)	SE239041.054	%	60 - 130%	97
	BH65(0.9m)	SE239041.055	%	60 - 130%	97
	BH66(0.2m)	SE239041.056	%	60 - 130%	93
	BH67(0.2m)	SE239041.057	%	60 - 130%	83
	BH68(0.6m)	SE239041.058	%	60 - 130%	81
	BH69(0.2m)	SE239041.059	%	60 - 130%	80

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	BH70(0.2m)	SE239041.060	%	60 - 130%	81
	BH71(0.2m)	SE239041.061	%	60 - 130%	79
	BH72(0.8m)	SE239041.062	%	60 - 130%	80
	BH73(0.2m)	SE239041.063	%	60 - 130%	76
	BH74(0.2m)	SE239041.064	%	60 - 130%	80
	BH75(1.0m)	SE239041.065	%	60 - 130%	80
	BH76(0.2m)	SE239041.066	%	60 - 130%	73
	BH77(0.2m)	SE239041.067	%	60 - 130%	76
	BH78(0.2m)	SE239041.068	%	60 - 130%	76
	BH79(0.2m)	SE239041.069	%	60 - 130%	77
	BH80(0.6m)	SE239041.070	%	60 - 130%	72
	BH81(0.8m)	SE239041.071	%	60 - 130%	73
	BH82(0.2m)	SE239041.072	%	60 - 130%	79
	BH83(0.2m)	SE239041.073	%	60 - 130%	76
	BH84(0.1m)	SE239041.074	%	60 - 130%	79
	BH85(0.2m)	SE239041.075	%	60 - 130%	79
	BH86(0.7m)	SE239041.076	%	60 - 130%	81
	BH87(0.8m)	SE239041.077	%	60 - 130%	98
	BH88(0.2m)	SE239041.078	%	60 - 130%	100
	BH89(0.2m)	SE239041.079	%	60 - 130%	103
	BH90(0.2m)	SE239041.080	%	60 - 130%	107
	BH91(1.0m)	SE239041.081	%	60 - 130%	110
	BH92(0.2m)	SE239041.082	%	60 - 130%	96
	BH93(0.2m)	SE239041.083	%	60 - 130%	100
	BH94(0.2m)	SE239041.084	%	60 - 130%	98
	BH95(0.2m)	SE239041.085	%	60 - 130%	102
	BH96(0.7m)	SE239041.086	%	60 - 130%	101
	BH97(0.2m)	SE239041.087	%	60 - 130%	100
	BH98(0.2m)	SE239041.088	%	60 - 130%	98
	BR1	SE239041.089	%	60 - 130%	102
	BR2	SE239041.090	%	60 - 130%	95
	BR3	SE239041.091	%	60 - 130%	98
	BR4	SE239041.092	%	60 - 130%	96
	WD1	SE239041.093	%	60 - 130%	83
	WD2	SE239041.094	%	60 - 130%	87
	TRIP BLANK	SE239041.098	%	60 - 130%	101
	TRP SPIKE	SE239041.099	%	60 - 130%	113
d8-toluene (Surrogate)	BH11(0.2m)	SE239041.001	%	60 - 130%	75
	BH12(0.7m)	SE239041.002	%	60 - 130%	92
	BH13(0.2m)	SE239041.003	%	60 - 130%	98
	BH14(0.2m)	SE239041.004	%	60 - 130%	89
	BH15(0.5m)	SE239041.005	%	60 - 130%	97
	BH16(0.2m)	SE239041.006	%	60 - 130%	92
	BH17(0.7m)	SE239041.007	%	60 - 130%	90
	BH18(0.2m)	SE239041.008	%	60 - 130%	97
	BH19(0.2m)	SE239041.009	%	60 - 130%	96
	BH20(0.2m)	SE239041.010	%	60 - 130%	98
	BH21(0.5m)	SE239041.011	%	60 - 130%	96
	BH22(0.2m)	SE239041.012	%	60 - 130%	90
	BH23(0.2m)	SE239041.013	%	60 - 130%	87
	BH24(0.2m)	SE239041.014	%	60 - 130%	89
	BH25(0.2m)	SE239041.015	%	60 - 130%	79
	BH26(surface sample)	SE239041.016	%	60 - 130%	88
	BH27(0.2m)	SE239041.017	%	60 - 130%	89
	BH28(0.4m)	SE239041.018	%	60 - 130%	94
	BH29(0.5m)	SE239041.019	%	60 - 130%	96
	BH30(0.2m)	SE239041.020	%	60 - 130%	89
	BH31(0.2m)	SE239041.021	%	60 - 130%	89
	BH32(0.2m)	SE239041.022	%	60 - 130%	88
	BH33(0.2m)	SE239041.023	%	60 - 130%	88
	BH34(0.2m)	SE239041.024	%	60 - 130%	86

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	BH35(0.2m)	SE239041.025	%	60 - 130%	87
	BH36(0.6m)	SE239041.026	%	60 - 130%	91
	BH37(0.6m)	SE239041.027	%	60 - 130%	92
	BH38(0.2m)	SE239041.028	%	60 - 130%	85
	BH39(0.2m)	SE239041.029	%	60 - 130%	90
	BH40(0.2m)	SE239041.030	%	60 - 130%	80
	BH41(0.5m)	SE239041.031	%	60 - 130%	89
	BH42(0.2m)	SE239041.032	%	60 - 130%	91
	BH43(0.2m)	SE239041.033	%	60 - 130%	85
	BH44(0.2m)	SE239041.034	%	60 - 130%	90
	BH45(0.2m)	SE239041.035	%	60 - 130%	90
	BH46(0.2m)	SE239041.036	%	60 - 130%	87
	BH47(0.7m)	SE239041.037	%	60 - 130%	92
	BH48(0.1m)	SE239041.038	%	60 - 130%	88
	BH49(0.5m)	SE239041.039	%	60 - 130%	95
	BH50(0.2m)	SE239041.040	%	60 - 130%	99
	BH51(0.2m)	SE239041.041	%	60 - 130%	91
	BH52(0.7m)	SE239041.042	%	60 - 130%	88
	BH53(0.2m)	SE239041.043	%	60 - 130%	87
	BH54(0.2m)	SE239041.044	%	60 - 130%	97
	BH55(0.7m)	SE239041.045	%	60 - 130%	93
	BH56(0.2m)	SE239041.046	%	60 - 130%	90
	BH57(0.2m)	SE239041.047	%	60 - 130%	93
	BH58(0.2m)	SE239041.048	%	60 - 130%	94
	BH59(0.2m)	SE239041.049	%	60 - 130%	85
	BH60(0.2m)	SE239041.050	%	60 - 130%	98
	BH61(0.5m)	SE239041.051	%	60 - 130%	89
	BH62(0.2m)	SE239041.052	%	60 - 130%	99
	BH63(0.2m)	SE239041.053	%	60 - 130%	78
	BH64(0.2m)	SE239041.054	%	60 - 130%	119
	BH65(0.9m)	SE239041.055	%	60 - 130%	96
	BH66(0.2m)	SE239041.056	%	60 - 130%	92
	BH67(0.2m)	SE239041.057	%	60 - 130%	110
	BH68(0.6m)	SE239041.058	%	60 - 130%	79
	BH69(0.2m)	SE239041.059	%	60 - 130%	76
	BH70(0.2m)	SE239041.060	%	60 - 130%	77
	BH71(0.2m)	SE239041.061	%	60 - 130%	78
	BH72(0.8m)	SE239041.062	%	60 - 130%	79
	BH73(0.2m)	SE239041.063	%	60 - 130%	73
	BH74(0.2m)	SE239041.064	%	60 - 130%	74
	BH75(1.0m)	SE239041.065	%	60 - 130%	78
	BH76(0.2m)	SE239041.066	%	60 - 130%	70
	BH77(0.2m)	SE239041.067	%	60 - 130%	74
	BH78(0.2m)	SE239041.068	%	60 - 130%	87
	BH79(0.2m)	SE239041.069	%	60 - 130%	78
	BH80(0.6m)	SE239041.070	%	60 - 130%	73
	BH81(0.8m)	SE239041.071	%	60 - 130%	74
	BH82(0.2m)	SE239041.072	%	60 - 130%	78
	BH83(0.2m)	SE239041.073	%	60 - 130%	74
	BH84(0.1m)	SE239041.074	%	60 - 130%	77
	BH85(0.2m)	SE239041.075	%	60 - 130%	81
	BH86(0.7m)	SE239041.076	%	60 - 130%	84
	BH87(0.8m)	SE239041.077	%	60 - 130%	97
	BH88(0.2m)	SE239041.078	%	60 - 130%	100
	BH89(0.2m)	SE239041.079	%	60 - 130%	101
	BH90(0.2m)	SE239041.080	%	60 - 130%	105
	BH91(1.0m)	SE239041.081	%	60 - 130%	107
	BH92(0.2m)	SE239041.082	%	60 - 130%	94
	BH93(0.2m)	SE239041.083	%	60 - 130%	98
	BH94(0.2m)	SE239041.084	%	60 - 130%	98
	BH95(0.2m)	SE239041.085	%	60 - 130%	101

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	BH96(0.7m)	SE239041.086	%	60 - 130%	101
	BH97(0.2m)	SE239041.087	%	60 - 130%	127
	BH98(0.2m)	SE239041.088	%	60 - 130%	97
	BR1	SE239041.089	%	60 - 130%	100
	BR2	SE239041.090	%	60 - 130%	93
	BR3	SE239041.091	%	60 - 130%	97
	BR4	SE239041.092	%	60 - 130%	95
	WD1	SE239041.093	%	60 - 130%	79
	WD2	SE239041.094	%	60 - 130%	84
	TRIP BLANK	SE239041.098	%	60 - 130%	99
	TRP SPIKE	SE239041.099	%	60 - 130%	109

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	WD1	SE239041.095	%	40 - 130%	103
	WD2	SE239041.096	%	40 - 130%	102
	RIN	SE239041.097	%	40 - 130%	101
d4-1,2-dichloroethane (Surrogate)	WD1	SE239041.095	%	40 - 130%	82
	WD2	SE239041.096	%	40 - 130%	88
	RIN	SE239041.097	%	40 - 130%	88
d8-toluene (Surrogate)	WD1	SE239041.095	%	40 - 130%	104
	WD2	SE239041.096	%	40 - 130%	113
	RIN	SE239041.097	%	40 - 130%	108

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH11(0.2m)	SE239041.001	%	60 - 130%	83
	BH12(0.7m)	SE239041.002	%	60 - 130%	96
	BH13(0.2m)	SE239041.003	%	60 - 130%	103
	BH14(0.2m)	SE239041.004	%	60 - 130%	86
	BH15(0.5m)	SE239041.005	%	60 - 130%	101
	BH16(0.2m)	SE239041.006	%	60 - 130%	97
	BH17(0.7m)	SE239041.007	%	60 - 130%	94
	BH18(0.2m)	SE239041.008	%	60 - 130%	102
	BH19(0.2m)	SE239041.009	%	60 - 130%	95
	BH20(0.2m)	SE239041.010	%	60 - 130%	99
	BH21(0.5m)	SE239041.011	%	60 - 130%	96
	BH22(0.2m)	SE239041.012	%	60 - 130%	92
	BH23(0.2m)	SE239041.013	%	60 - 130%	92
	BH24(0.2m)	SE239041.014	%	60 - 130%	91
	BH25(0.2m)	SE239041.015	%	60 - 130%	83
	BH26(surface sample)	SE239041.016	%	60 - 130%	91
	BH27(0.2m)	SE239041.017	%	60 - 130%	91
	BH28(0.4m)	SE239041.018	%	60 - 130%	96
	BH29(0.5m)	SE239041.019	%	60 - 130%	98
	BH30(0.2m)	SE239041.020	%	60 - 130%	79
	BH31(0.2m)	SE239041.021	%	60 - 130%	79
	BH32(0.2m)	SE239041.022	%	60 - 130%	78
	BH33(0.2m)	SE239041.023	%	60 - 130%	77
	BH34(0.2m)	SE239041.024	%	60 - 130%	75
	BH35(0.2m)	SE239041.025	%	60 - 130%	77
	BH36(0.6m)	SE239041.026	%	60 - 130%	80
	BH37(0.6m)	SE239041.027	%	60 - 130%	81
	BH38(0.2m)	SE239041.028	%	60 - 130%	74
	BH39(0.2m)	SE239041.029	%	60 - 130%	78
	BH40(0.2m)	SE239041.030	%	60 - 130%	70
	BH41(0.5m)	SE239041.031	%	60 - 130%	78
	BH42(0.2m)	SE239041.032	%	60 - 130%	78
	BH43(0.2m)	SE239041.033	%	60 - 130%	75
	BH44(0.2m)	SE239041.034	%	60 - 130%	81
	BH45(0.2m)	SE239041.035	%	60 - 130%	78
	BH46(0.2m)	SE239041.036	%	60 - 130%	75

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	BH47(0.7m)	SE239041.037	%	60 - 130%	79
	BH48(0.1m)	SE239041.038	%	60 - 130%	76
	BH49(0.5m)	SE239041.039	%	60 - 130%	97
	BH50(0.2m)	SE239041.040	%	60 - 130%	98
	BH51(0.2m)	SE239041.041	%	60 - 130%	89
	BH52(0.7m)	SE239041.042	%	60 - 130%	89
	BH53(0.2m)	SE239041.043	%	60 - 130%	87
	BH54(0.2m)	SE239041.044	%	60 - 130%	96
	BH55(0.7m)	SE239041.045	%	60 - 130%	93
	BH56(0.2m)	SE239041.046	%	60 - 130%	90
	BH57(0.2m)	SE239041.047	%	60 - 130%	91
	BH58(0.2m)	SE239041.048	%	60 - 130%	92
	BH59(0.2m)	SE239041.049	%	60 - 130%	86
	BH60(0.2m)	SE239041.050	%	60 - 130%	98
	BH61(0.5m)	SE239041.051	%	60 - 130%	91
	BH62(0.2m)	SE239041.052	%	60 - 130%	97
	BH63(0.2m)	SE239041.053	%	60 - 130%	78
	BH64(0.2m)	SE239041.054	%	60 - 130%	92
	BH65(0.9m)	SE239041.055	%	60 - 130%	99
	BH66(0.2m)	SE239041.056	%	60 - 130%	92
	BH67(0.2m)	SE239041.057	%	60 - 130%	92
	BH68(0.6m)	SE239041.058	%	60 - 130%	85
	BH69(0.2m)	SE239041.059	%	60 - 130%	79
	BH70(0.2m)	SE239041.060	%	60 - 130%	79
	BH71(0.2m)	SE239041.061	%	60 - 130%	75
	BH72(0.8m)	SE239041.062	%	60 - 130%	74
	BH73(0.2m)	SE239041.063	%	60 - 130%	75
	BH74(0.2m)	SE239041.064	%	60 - 130%	77
	BH75(1.0m)	SE239041.065	%	60 - 130%	80
	BH76(0.2m)	SE239041.066	%	60 - 130%	76
	BH77(0.2m)	SE239041.067	%	60 - 130%	80
	BH78(0.2m)	SE239041.068	%	60 - 130%	80
	BH79(0.2m)	SE239041.069	%	60 - 130%	78
	BH80(0.6m)	SE239041.070	%	60 - 130%	76
	BH81(0.8m)	SE239041.071	%	60 - 130%	76
	BH82(0.2m)	SE239041.072	%	60 - 130%	73
	BH83(0.2m)	SE239041.073	%	60 - 130%	78
	BH84(0.1m)	SE239041.074	%	60 - 130%	78
	BH85(0.2m)	SE239041.075	%	60 - 130%	81
	BH86(0.7m)	SE239041.076	%	60 - 130%	83
	BH87(0.8m)	SE239041.077	%	60 - 130%	101
	BH88(0.2m)	SE239041.078	%	60 - 130%	95
	BH89(0.2m)	SE239041.079	%	60 - 130%	108
	BH90(0.2m)	SE239041.080	%	60 - 130%	103
	BH91(1.0m)	SE239041.081	%	60 - 130%	107
	BH92(0.2m)	SE239041.082	%	60 - 130%	93
	BH93(0.2m)	SE239041.083	%	60 - 130%	99
	BH94(0.2m)	SE239041.084	%	60 - 130%	99
	BH95(0.2m)	SE239041.085	%	60 - 130%	103
	BH96(0.7m)	SE239041.086	%	60 - 130%	101
	BH97(0.2m)	SE239041.087	%	60 - 130%	94
	BH98(0.2m)	SE239041.088	%	60 - 130%	96
	BR1	SE239041.089	%	60 - 130%	99
	BR2	SE239041.090	%	60 - 130%	93
	BR3	SE239041.091	%	60 - 130%	96
	BR4	SE239041.092	%	60 - 130%	94
	WD1	SE239041.093	%	60 - 130%	79
	WD2	SE239041.094	%	60 - 130%	85
	TRIP BLANK	SE239041.098	%	60 - 130%	97
d4-1,2-dichloroethane (Surrogate)	BH11(0.2m)	SE239041.001	%	60 - 130%	100
	BH12(0.7m)	SE239041.002	%	60 - 130%	116

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	BH13(0.2m)	SE239041.003	%	60 - 130%	123
	BH14(0.2m)	SE239041.004	%	60 - 130%	111
	BH15(0.5m)	SE239041.005	%	60 - 130%	120
	BH16(0.2m)	SE239041.006	%	60 - 130%	120
	BH17(0.7m)	SE239041.007	%	60 - 130%	118
	BH18(0.2m)	SE239041.008	%	60 - 130%	129
	BH19(0.2m)	SE239041.009	%	60 - 130%	118
	BH20(0.2m)	SE239041.010	%	60 - 130%	126
	BH21(0.5m)	SE239041.011	%	60 - 130%	123
	BH22(0.2m)	SE239041.012	%	60 - 130%	121
	BH23(0.2m)	SE239041.013	%	60 - 130%	122
	BH24(0.2m)	SE239041.014	%	60 - 130%	120
	BH25(0.2m)	SE239041.015	%	60 - 130%	110
	BH26(surface sample)	SE239041.016	%	60 - 130%	121
	BH27(0.2m)	SE239041.017	%	60 - 130%	120
	BH28(0.4m)	SE239041.018	%	60 - 130%	135 ①
	BH29(0.5m)	SE239041.019	%	60 - 130%	129
	BH30(0.2m)	SE239041.020	%	60 - 130%	86
	BH31(0.2m)	SE239041.021	%	60 - 130%	86
	BH32(0.2m)	SE239041.022	%	60 - 130%	86
	BH33(0.2m)	SE239041.023	%	60 - 130%	86
	BH34(0.2m)	SE239041.024	%	60 - 130%	85
	BH35(0.2m)	SE239041.025	%	60 - 130%	87
	BH36(0.6m)	SE239041.026	%	60 - 130%	91
	BH37(0.6m)	SE239041.027	%	60 - 130%	90
	BH38(0.2m)	SE239041.028	%	60 - 130%	85
	BH39(0.2m)	SE239041.029	%	60 - 130%	88
	BH40(0.2m)	SE239041.030	%	60 - 130%	79
	BH41(0.5m)	SE239041.031	%	60 - 130%	87
	BH42(0.2m)	SE239041.032	%	60 - 130%	91
	BH43(0.2m)	SE239041.033	%	60 - 130%	85
	BH44(0.2m)	SE239041.034	%	60 - 130%	90
	BH45(0.2m)	SE239041.035	%	60 - 130%	90
	BH46(0.2m)	SE239041.036	%	60 - 130%	87
	BH47(0.7m)	SE239041.037	%	60 - 130%	88
	BH48(0.1m)	SE239041.038	%	60 - 130%	86
	BH49(0.5m)	SE239041.039	%	60 - 130%	96
	BH50(0.2m)	SE239041.040	%	60 - 130%	102
	BH51(0.2m)	SE239041.041	%	60 - 130%	92
	BH52(0.7m)	SE239041.042	%	60 - 130%	89
	BH53(0.2m)	SE239041.043	%	60 - 130%	88
	BH54(0.2m)	SE239041.044	%	60 - 130%	97
	BH55(0.7m)	SE239041.045	%	60 - 130%	93
	BH56(0.2m)	SE239041.046	%	60 - 130%	91
	BH57(0.2m)	SE239041.047	%	60 - 130%	95
	BH58(0.2m)	SE239041.048	%	60 - 130%	94
	BH59(0.2m)	SE239041.049	%	60 - 130%	87
	BH60(0.2m)	SE239041.050	%	60 - 130%	98
	BH61(0.5m)	SE239041.051	%	60 - 130%	91
	BH62(0.2m)	SE239041.052	%	60 - 130%	98
	BH63(0.2m)	SE239041.053	%	60 - 130%	80
	BH64(0.2m)	SE239041.054	%	60 - 130%	97
	BH65(0.9m)	SE239041.055	%	60 - 130%	97
	BH66(0.2m)	SE239041.056	%	60 - 130%	93
	BH67(0.2m)	SE239041.057	%	60 - 130%	83
	BH68(0.6m)	SE239041.058	%	60 - 130%	81
	BH69(0.2m)	SE239041.059	%	60 - 130%	80
	BH70(0.2m)	SE239041.060	%	60 - 130%	81
	BH71(0.2m)	SE239041.061	%	60 - 130%	79
	BH72(0.8m)	SE239041.062	%	60 - 130%	80
	BH73(0.2m)	SE239041.063	%	60 - 130%	76

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d4-1,2-dichloroethane (Surrogate)	BH74(0.2m)	SE239041.064	%	60 - 130%	80
	BH75(1.0m)	SE239041.065	%	60 - 130%	80
	BH76(0.2m)	SE239041.066	%	60 - 130%	73
	BH77(0.2m)	SE239041.067	%	60 - 130%	76
	BH78(0.2m)	SE239041.068	%	60 - 130%	76
	BH79(0.2m)	SE239041.069	%	60 - 130%	77
	BH80(0.6m)	SE239041.070	%	60 - 130%	72
	BH81(0.8m)	SE239041.071	%	60 - 130%	73
	BH82(0.2m)	SE239041.072	%	60 - 130%	79
	BH83(0.2m)	SE239041.073	%	60 - 130%	76
	BH84(0.1m)	SE239041.074	%	60 - 130%	79
	BH85(0.2m)	SE239041.075	%	60 - 130%	79
	BH86(0.7m)	SE239041.076	%	60 - 130%	81
	BH87(0.8m)	SE239041.077	%	60 - 130%	98
	BH88(0.2m)	SE239041.078	%	60 - 130%	100
	BH89(0.2m)	SE239041.079	%	60 - 130%	103
	BH90(0.2m)	SE239041.080	%	60 - 130%	107
	BH91(1.0m)	SE239041.081	%	60 - 130%	110
	BH92(0.2m)	SE239041.082	%	60 - 130%	96
	BH93(0.2m)	SE239041.083	%	60 - 130%	100
	BH94(0.2m)	SE239041.084	%	60 - 130%	98
	BH95(0.2m)	SE239041.085	%	60 - 130%	102
	BH96(0.7m)	SE239041.086	%	60 - 130%	101
	BH97(0.2m)	SE239041.087	%	60 - 130%	100
	BH98(0.2m)	SE239041.088	%	60 - 130%	98
	BR1	SE239041.089	%	60 - 130%	102
	BR2	SE239041.090	%	60 - 130%	95
	BR3	SE239041.091	%	60 - 130%	98
	BR4	SE239041.092	%	60 - 130%	96
	WD1	SE239041.093	%	60 - 130%	83
	WD2	SE239041.094	%	60 - 130%	87
	TRIP BLANK	SE239041.098	%	60 - 130%	101
d8-toluene (Surrogate)	BH11(0.2m)	SE239041.001	%	60 - 130%	75
	BH12(0.7m)	SE239041.002	%	60 - 130%	92
	BH13(0.2m)	SE239041.003	%	60 - 130%	98
	BH14(0.2m)	SE239041.004	%	60 - 130%	89
	BH15(0.5m)	SE239041.005	%	60 - 130%	97
	BH16(0.2m)	SE239041.006	%	60 - 130%	92
	BH17(0.7m)	SE239041.007	%	60 - 130%	90
	BH18(0.2m)	SE239041.008	%	60 - 130%	97
	BH19(0.2m)	SE239041.009	%	60 - 130%	96
	BH20(0.2m)	SE239041.010	%	60 - 130%	98
	BH21(0.5m)	SE239041.011	%	60 - 130%	96
	BH22(0.2m)	SE239041.012	%	60 - 130%	90
	BH23(0.2m)	SE239041.013	%	60 - 130%	87
	BH24(0.2m)	SE239041.014	%	60 - 130%	89
	BH25(0.2m)	SE239041.015	%	60 - 130%	79
	BH26(surface sample)	SE239041.016	%	60 - 130%	88
	BH27(0.2m)	SE239041.017	%	60 - 130%	89
	BH28(0.4m)	SE239041.018	%	60 - 130%	94
	BH29(0.5m)	SE239041.019	%	60 - 130%	96
	BH30(0.2m)	SE239041.020	%	60 - 130%	89
	BH31(0.2m)	SE239041.021	%	60 - 130%	89
	BH32(0.2m)	SE239041.022	%	60 - 130%	88
	BH33(0.2m)	SE239041.023	%	60 - 130%	88
	BH34(0.2m)	SE239041.024	%	60 - 130%	86
	BH35(0.2m)	SE239041.025	%	60 - 130%	87
	BH36(0.6m)	SE239041.026	%	60 - 130%	91
	BH37(0.6m)	SE239041.027	%	60 - 130%	92
	BH38(0.2m)	SE239041.028	%	60 - 130%	85
	BH39(0.2m)	SE239041.029	%	60 - 130%	90

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	BH40(0.2m)	SE239041.030	%	60 - 130%	80
	BH41(0.5m)	SE239041.031	%	60 - 130%	89
	BH42(0.2m)	SE239041.032	%	60 - 130%	91
	BH43(0.2m)	SE239041.033	%	60 - 130%	85
	BH44(0.2m)	SE239041.034	%	60 - 130%	90
	BH45(0.2m)	SE239041.035	%	60 - 130%	90
	BH46(0.2m)	SE239041.036	%	60 - 130%	87
	BH47(0.7m)	SE239041.037	%	60 - 130%	92
	BH48(0.1m)	SE239041.038	%	60 - 130%	88
	BH49(0.5m)	SE239041.039	%	60 - 130%	95
	BH50(0.2m)	SE239041.040	%	60 - 130%	99
	BH51(0.2m)	SE239041.041	%	60 - 130%	91
	BH52(0.7m)	SE239041.042	%	60 - 130%	88
	BH53(0.2m)	SE239041.043	%	60 - 130%	87
	BH54(0.2m)	SE239041.044	%	60 - 130%	97
	BH55(0.7m)	SE239041.045	%	60 - 130%	93
	BH56(0.2m)	SE239041.046	%	60 - 130%	90
	BH57(0.2m)	SE239041.047	%	60 - 130%	93
	BH58(0.2m)	SE239041.048	%	60 - 130%	94
	BH59(0.2m)	SE239041.049	%	60 - 130%	85
	BH60(0.2m)	SE239041.050	%	60 - 130%	98
	BH61(0.5m)	SE239041.051	%	60 - 130%	89
	BH62(0.2m)	SE239041.052	%	60 - 130%	99
	BH63(0.2m)	SE239041.053	%	60 - 130%	78
	BH64(0.2m)	SE239041.054	%	60 - 130%	119
	BH65(0.9m)	SE239041.055	%	60 - 130%	96
	BH66(0.2m)	SE239041.056	%	60 - 130%	92
	BH67(0.2m)	SE239041.057	%	60 - 130%	110
	BH68(0.6m)	SE239041.058	%	60 - 130%	79
	BH69(0.2m)	SE239041.059	%	60 - 130%	76
	BH70(0.2m)	SE239041.060	%	60 - 130%	77
	BH71(0.2m)	SE239041.061	%	60 - 130%	78
	BH72(0.8m)	SE239041.062	%	60 - 130%	79
	BH73(0.2m)	SE239041.063	%	60 - 130%	73
	BH74(0.2m)	SE239041.064	%	60 - 130%	74
	BH75(1.0m)	SE239041.065	%	60 - 130%	78
	BH76(0.2m)	SE239041.066	%	60 - 130%	70
	BH77(0.2m)	SE239041.067	%	60 - 130%	74
	BH78(0.2m)	SE239041.068	%	60 - 130%	87
	BH79(0.2m)	SE239041.069	%	60 - 130%	78
	BH80(0.6m)	SE239041.070	%	60 - 130%	73
	BH81(0.8m)	SE239041.071	%	60 - 130%	74
	BH82(0.2m)	SE239041.072	%	60 - 130%	78
	BH83(0.2m)	SE239041.073	%	60 - 130%	74
	BH84(0.1m)	SE239041.074	%	60 - 130%	77
	BH85(0.2m)	SE239041.075	%	60 - 130%	81
	BH86(0.7m)	SE239041.076	%	60 - 130%	84
	BH87(0.8m)	SE239041.077	%	60 - 130%	97
	BH88(0.2m)	SE239041.078	%	60 - 130%	100
	BH89(0.2m)	SE239041.079	%	60 - 130%	101
	BH90(0.2m)	SE239041.080	%	60 - 130%	105
	BH91(1.0m)	SE239041.081	%	60 - 130%	107
	BH92(0.2m)	SE239041.082	%	60 - 130%	94
	BH93(0.2m)	SE239041.083	%	60 - 130%	98
	BH94(0.2m)	SE239041.084	%	60 - 130%	98
	BH95(0.2m)	SE239041.085	%	60 - 130%	101
	BH96(0.7m)	SE239041.086	%	60 - 130%	101
	BH97(0.2m)	SE239041.087	%	60 - 130%	127
	BH98(0.2m)	SE239041.088	%	60 - 130%	97
	BR1	SE239041.089	%	60 - 130%	100
	BR2	SE239041.090	%	60 - 130%	93

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
d8-toluene (Surrogate)	BR3	SE239041.091	%	60 - 130%	97
	BR4	SE239041.092	%	60 - 130%	95
	WD1	SE239041.093	%	60 - 130%	79
	WD2	SE239041.094	%	60 - 130%	84
	TRIP BLANK	SE239041.098	%	60 - 130%	99

Volatile Petroleum Hydrocarbons in Water — Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	WD1	SE239041.095	%	40 - 130%	103
	WD2	SE239041.096	%	40 - 130%	102
	RIN	SE239041.097	%	40 - 130%	101
d4-1,2-dichloroethane (Surrogate)	WD1	SE239041.095	%	60 - 130%	82
	WD2	SE239041.096	%	60 - 130%	88
	RIN	SE239041.097	%	60 - 130%	88
d8-toluene (Surrogate)	WD1	SE239041.095	%	40 - 130%	104
	WD2	SE239041.096	%	40 - 130%	113
	RIN	SE239041.097	%	40 - 130%	108

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB263955.001	Mercury	mg/L	0.0001	<0.0001

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result
LB264256.001	Mercury	mg/kg	0.05	<0.05
LB264257.001	Mercury	mg/kg	0.05	<0.05
LB264259.001	Mercury	mg/kg	0.05	<0.05
LB264260.001	Mercury	mg/kg	0.05	<0.05
LB264261.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB263988.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Isodrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	102
LB263989.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Isodrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	98

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Sample Number		Parameter	Units	LOR	Result
LB263997.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Isodrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	99
LB263998.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Isodrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	106
LB263999.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Isodrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDE	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

OC Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB263999.001		Dieldrin	mg/kg	0.2	<0.2
		Endrin	mg/kg	0.2	<0.2
		Beta Endosulfan	mg/kg	0.2	<0.2
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	105

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB263924.001		Alpha BHC	µg/L	0.1	<0.1
		Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
		Beta BHC	µg/L	0.1	<0.1
		Lindane (gamma BHC)	µg/L	0.1	<0.1
		Delta BHC	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Aldrin	µg/L	0.1	<0.1
		Isodrin	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Gamma Chlordane	µg/L	0.1	<0.1
		Alpha Chlordane	µg/L	0.1	<0.1
		Alpha Endosulfan	µg/L	0.1	<0.1
		p,p'-DDE	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Beta Endosulfan	µg/L	0.1	<0.1
		p,p'-DDD	µg/L	0.1	<0.1
		Endrin aldehyde	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		p,p'-DDT	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	93

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB263988.001		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
		Bromophos Ethyl	mg/kg	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5
		Dichlorvos	mg/kg	0.5	<0.5
		Dimethoate	mg/kg	0.5	<0.5
		Ethion	mg/kg	0.2	<0.2
		Fenitrothion	mg/kg	0.2	<0.2
		Malathion	mg/kg	0.2	<0.2
		Methidathion	mg/kg	0.5	<0.5
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	94
		d14-p-terphenyl (Surrogate)	%	-	101
LB263989.001		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
		Bromophos Ethyl	mg/kg	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5
		Dichlorvos	mg/kg	0.5	<0.5
		Dimethoate	mg/kg	0.5	<0.5
		Ethion	mg/kg	0.2	<0.2
		Fenitrothion	mg/kg	0.2	<0.2

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

OP Pesticides in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB263989.001		Malathion	mg/kg	0.2	<0.2
		Methidathion	mg/kg	0.5	<0.5
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	94
		d14-p-terphenyl (Surrogate)	%	-	97
LB263997.001		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
		Bromophos Ethyl	mg/kg	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5
		Dichlorvos	mg/kg	0.5	<0.5
		Dimethoate	mg/kg	0.5	<0.5
		Ethion	mg/kg	0.2	<0.2
		Fenitrothion	mg/kg	0.2	<0.2
		Malathion	mg/kg	0.2	<0.2
		Methidathion	mg/kg	0.5	<0.5
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	95
		d14-p-terphenyl (Surrogate)	%	-	99
LB263998.001		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
		Bromophos Ethyl	mg/kg	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5
		Dichlorvos	mg/kg	0.5	<0.5
		Dimethoate	mg/kg	0.5	<0.5
		Ethion	mg/kg	0.2	<0.2
		Fenitrothion	mg/kg	0.2	<0.2
		Malathion	mg/kg	0.2	<0.2
		Methidathion	mg/kg	0.5	<0.5
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	92
		d14-p-terphenyl (Surrogate)	%	-	96
LB263999.001		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
		Bromophos Ethyl	mg/kg	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5
		Dichlorvos	mg/kg	0.5	<0.5
		Dimethoate	mg/kg	0.5	<0.5
		Ethion	mg/kg	0.2	<0.2
		Fenitrothion	mg/kg	0.2	<0.2
		Malathion	mg/kg	0.2	<0.2
		Methidathion	mg/kg	0.5	<0.5
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	115
		d14-p-terphenyl (Surrogate)	%	-	117

OP Pesticides in Water — Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB263924.001		Azinphos-methyl	µg/L	0.2	<0.2
		Bromophos Ethyl	µg/L	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Dichlorvos	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Fenitrothion	µg/L	0.2	<0.2
		Malathion	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5
		Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	68
		d14-p-terphenyl (Surrogate)	%	-	82

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil — **Method: ME-(AU)-[ENV]AN420**

Sample Number		Parameter	Units	LOR	Result
LB263988.001		Naphthalene	mg/kg	0.1	<0.1
		2-methylnaphthalene	mg/kg	0.1	<0.1
		1-methylnaphthalene	mg/kg	0.1	<0.1
		Acenaphthylene	mg/kg	0.1	<0.1
		Acenaphthene	mg/kg	0.1	<0.1
		Fluorene	mg/kg	0.1	<0.1
		Phenanthrene	mg/kg	0.1	<0.1
		Anthracene	mg/kg	0.1	<0.1
		Fluoranthene	mg/kg	0.1	<0.1
		Pyrene	mg/kg	0.1	<0.1
		Benzo(a)anthracene	mg/kg	0.1	<0.1
		Chrysene	mg/kg	0.1	<0.1
		Benzo(a)pyrene	mg/kg	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
		Benzo(ghi)perylene	mg/kg	0.1	<0.1
		Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	107
		2-fluorobiphenyl (Surrogate)	%	-	94
		d14-p-terphenyl (Surrogate)	%	-	101
LB263989.001		Naphthalene	mg/kg	0.1	<0.1
		2-methylnaphthalene	mg/kg	0.1	<0.1
		1-methylnaphthalene	mg/kg	0.1	<0.1
		Acenaphthylene	mg/kg	0.1	<0.1
		Acenaphthene	mg/kg	0.1	<0.1
		Fluorene	mg/kg	0.1	<0.1
		Phenanthrene	mg/kg	0.1	<0.1
		Anthracene	mg/kg	0.1	<0.1
		Fluoranthene	mg/kg	0.1	<0.1
		Pyrene	mg/kg	0.1	<0.1
		Benzo(a)anthracene	mg/kg	0.1	<0.1
		Chrysene	mg/kg	0.1	<0.1
		Benzo(a)pyrene	mg/kg	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
		Benzo(ghi)perylene	mg/kg	0.1	<0.1
		Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	107
		2-fluorobiphenyl (Surrogate)	%	-	94
		d14-p-terphenyl (Surrogate)	%	-	97
LB263997.001		Naphthalene	mg/kg	0.1	<0.1
		2-methylnaphthalene	mg/kg	0.1	<0.1
		1-methylnaphthalene	mg/kg	0.1	<0.1
		Acenaphthylene	mg/kg	0.1	<0.1
		Acenaphthene	mg/kg	0.1	<0.1
		Fluorene	mg/kg	0.1	<0.1
		Phenanthrene	mg/kg	0.1	<0.1
		Anthracene	mg/kg	0.1	<0.1
		Fluoranthene	mg/kg	0.1	<0.1
		Pyrene	mg/kg	0.1	<0.1
		Benzo(a)anthracene	mg/kg	0.1	<0.1
		Chrysene	mg/kg	0.1	<0.1
		Benzo(a)pyrene	mg/kg	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
		Benzo(ghi)perylene	mg/kg	0.1	<0.1
		Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	111
		2-fluorobiphenyl (Surrogate)	%	-	95
		d14-p-terphenyl (Surrogate)	%	-	99
LB263998.001		Naphthalene	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB263998.001		2-methylnaphthalene	mg/kg	0.1	<0.1
		1-methylnaphthalene	mg/kg	0.1	<0.1
		Acenaphthylene	mg/kg	0.1	<0.1
		Acenaphthene	mg/kg	0.1	<0.1
		Fluorene	mg/kg	0.1	<0.1
		Phenanthrene	mg/kg	0.1	<0.1
		Anthracene	mg/kg	0.1	<0.1
		Fluoranthene	mg/kg	0.1	<0.1
		Pyrene	mg/kg	0.1	<0.1
		Benzo(a)anthracene	mg/kg	0.1	<0.1
		Chrysene	mg/kg	0.1	<0.1
		Benzo(a)pyrene	mg/kg	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
		Benzo(ghi)perylene	mg/kg	0.1	<0.1
		Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	110
		2-fluorobiphenyl (Surrogate)	%	-	92
		d14-p-terphenyl (Surrogate)	%	-	96
LB263999.001		Naphthalene	mg/kg	0.1	<0.1
		2-methylnaphthalene	mg/kg	0.1	<0.1
		1-methylnaphthalene	mg/kg	0.1	<0.1
		Acenaphthylene	mg/kg	0.1	<0.1
		Acenaphthene	mg/kg	0.1	<0.1
		Fluorene	mg/kg	0.1	<0.1
		Phenanthrene	mg/kg	0.1	<0.1
		Anthracene	mg/kg	0.1	<0.1
		Fluoranthene	mg/kg	0.1	<0.1
		Pyrene	mg/kg	0.1	<0.1
		Benzo(a)anthracene	mg/kg	0.1	<0.1
		Chrysene	mg/kg	0.1	<0.1
		Benzo(a)pyrene	mg/kg	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
		Benzo(ghi)perylene	mg/kg	0.1	<0.1
		Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	127
		2-fluorobiphenyl (Surrogate)	%	-	115
		d14-p-terphenyl (Surrogate)	%	-	117

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB263924.001		Naphthalene	µg/L	0.1	<0.1
		2-methylnaphthalene	µg/L	0.1	<0.1
		1-methylnaphthalene	µg/L	0.1	<0.1
		Acenaphthylene	µg/L	0.1	<0.1
		Acenaphthene	µg/L	0.1	<0.1
		Fluorene	µg/L	0.1	<0.1
		Phenanthrene	µg/L	0.1	<0.1
		Anthracene	µg/L	0.1	<0.1
		Fluoranthene	µg/L	0.1	<0.1
		Pyrene	µg/L	0.1	<0.1
		Benzo(a)anthracene	µg/L	0.1	<0.1
		Chrysene	µg/L	0.1	<0.1
		Benzo(a)pyrene	µg/L	0.1	<0.1
		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1
		Benzo(ghi)perylene	µg/L	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	56
		2-fluorobiphenyl (Surrogate)	%	-	68
		d14-p-terphenyl (Surrogate)	%	-	82

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB263988.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	98
LB263989.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	98
LB263997.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	99
LB263998.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	106
LB263999.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	105

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB263924.001	Arochlor 1016	µg/L	1	<1
	Arochlor 1221	µg/L	1	<1
	Arochlor 1232	µg/L	1	<1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PCBs in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB263924.001	Arochlor 1242	µg/L	1	<1
	Arochlor 1248	µg/L	1	<1
	Arochlor 1254	µg/L	1	<1
	Arochlor 1260	µg/L	1	<1
	Arochlor 1262	µg/L	1	<1
	Arochlor 1268	µg/L	1	<1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result
LB264247.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0
LB264249.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0
LB264250.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0
LB264253.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0
LB264254.001	Arsenic, As	mg/kg	1	<1
	Cadmium, Cd	mg/kg	0.3	<0.3
	Chromium, Cr	mg/kg	0.5	<0.5
	Copper, Cu	mg/kg	0.5	<0.5
	Nickel, Ni	mg/kg	0.5	<0.5
	Lead, Pb	mg/kg	1	<1
	Zinc, Zn	mg/kg	2	<2.0

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB263915.001	Arsenic	µg/L	1	<1
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Copper	µg/L	1	<1
	Lead	µg/L	1	<1
	Nickel	µg/L	1	<1
	Zinc	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB263988.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB263989.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110
LB263997.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110
LB263998.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110
LB263999.001	TRH C10-C14	mg/kg	20	<20
	TRH C15-C28	mg/kg	45	<45
	TRH C29-C36	mg/kg	45	<45
	TRH C37-C40	mg/kg	100	<100
	TRH C10-C36 Total	mg/kg	110	<110

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB263924.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB264031.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	130
		d8-toluene (Surrogate)	%	-	101
		Bromofluorobenzene (Surrogate)	%	-	111
	Totals	Total BTEX*	mg/kg	0.6	<0.6
LB264032.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	93
		d8-toluene (Surrogate)	%	-	93
		Bromofluorobenzene (Surrogate)	%	-	81
	Totals	Total BTEX*	mg/kg	0.6	<0.6
LB264033.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
		d8-toluene (Surrogate)	%	-	91
		Bromofluorobenzene (Surrogate)	%	-	87
	Totals	Total BTEX*	mg/kg	0.6	<0.6
LB264034.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB264034.001	Monocyclic Aromatic Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	88
		d8-toluene (Surrogate)	%	-	85
		Bromofluorobenzene (Surrogate)	%	-	83
	Totals	Total BTEX*	mg/kg	0.6	<0.6
LB264035.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	109
		d8-toluene (Surrogate)	%	-	112
		Bromofluorobenzene (Surrogate)	%	-	114
	Totals	Total BTEX*	mg/kg	0.6	<0.6

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB264092.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
		d8-toluene (Surrogate)	%	-	98
		Bromofluorobenzene (Surrogate)	%	-	99

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB264031.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	130
LB264032.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	93
LB264033.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
LB264034.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	88
LB264035.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	109

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB264092.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	95
		d8-toluene (Surrogate)	%	-	98
		Bromofluorobenzene (Surrogate)	%	-	99

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239071.006	LB263955.014	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	195
SE239071.009	LB263955.018	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	18

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.010	LB264256.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE239041.019	LB264256.024	Mercury	mg/kg	0.05	<0.05	<0.05	191	0
SE239041.029	LB264257.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE239041.038	LB264257.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE239041.048	LB264259.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE239041.057	LB264259.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE239041.067	LB264260.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE239041.076	LB264260.024	Mercury	mg/kg	0.05	<0.05	<0.05	180	0
SE239041.086	LB264261.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE239041.098	LB264261.024	Mercury	mg/kg	0.05	<0.05	<0.05	200	0

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.010	LB264044.011	% Moisture	%w/w	1	13.5	13.8	37	2
SE239041.019	LB264044.021	% Moisture	%w/w	1	20.2	21.6	35	6
SE239041.029	LB264048.011	% Moisture	%w/w	1	20.6	21.2	35	3
SE239041.038	LB264048.021	% Moisture	%w/w	1	16.4	17.3	36	5
SE239041.048	LB264049.011	% Moisture	%w/w	1	20.9	21.9	35	4
SE239041.067	LB264050.011	% Moisture	%w/w	1	27.1	25.4	34	6
SE239041.076	LB264050.021	% Moisture	%w/w	1	23.0	22.9	34	1
SE239041.086	LB264052.011	% Moisture	%w/w	1	23.2	23.0	34	1
SE239041.098	LB264052.021	% Moisture	%w/w	1	<1	<1	200	0

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.010	LB263988.014		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	0.4	0.4	55	19
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	192	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	192	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	183	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	30	2
SE239041.019	LB263988.024		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.019	LB263988.024		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.15	30	4
SE239041.029	LB263989.014		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.17	30	5
SE239041.038	LB263989.024		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.038	LB263989.024		Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	30	4
SE239041.048	LB263997.014		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.17	30	1
SE239041.057	LB263997.024		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.057	LB263997.024		Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	30	0
SE239041.067	LB263998.014		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.17	30	5
SE239041.076	LB263998.024		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.076	LB263998.024		Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	30	2
SE239041.086	LB263999.014		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.18	30	5
SE239041.094	LB263999.026		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.094	LB263999.026		Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.2	200	0
			Endrin	mg/kg	0.2	<0.2	<0.2	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.17	30	0

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.010	LB263988.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE239041.019	LB263988.024		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE239041.029	LB263989.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OP Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.029	LB263989.014		Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE239041.038	LB263989.024		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE239041.048	LB263997.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE239041.057	LB263997.024		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
SE239041.067	LB263998.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OP Pesticides in Soil (continued) — Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.067	LB263998.014		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	6
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	6
SE239041.076	LB263998.024		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	8
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	6
SE239041.086	LB263999.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	4
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE239041.094	LB263999.027		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2

PAH (Polynuclear Aromatic Hydrocarbons) in Soil — Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.010	LB263988.014	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.010	LB263988.014		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	1
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE239041.019	LB263988.024		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
SE239041.029	LB263989.014		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	1

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.029	LB263989.014	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE239041.038	LB263989.024		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE239041.048	LB263997.014		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	0
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	0
SE239041.057	LB263997.024		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.057	LB263997.024		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2
SE239041.067	LB263998.014		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.5	30	4
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	6
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	6
SE239041.076	LB263998.024		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.076	LB263998.024		Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	4
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	8
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	6
SE239041.086	LB263999.014		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	0
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	30	4
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	3
SE239041.094	LB263999.027		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.6	30	1
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	1
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	30	2

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.010	LB263988.014	Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
		Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PCBs in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.010	LB263988.014		Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	2
SE239041.019	LB263988.024		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	4
SE239041.029	LB263989.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	5
SE239041.038	LB263989.024		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	4
SE239041.048	LB263997.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	1
SE239041.057	LB263997.024		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PCBs in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.057	LB263997.024		Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	0
SE239041.067	LB263998.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	5
SE239041.076	LB263998.024		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	2
SE239041.086	LB263999.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	4
SE239041.094	LB263999.026		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	1

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES — **Method: ME-(AU)-[ENV]AN040/AN320**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.010	LB264249.014	Arsenic, As	mg/kg	1	10	9	41	3
		Cadmium, Cd	mg/kg	0.3	0.4	0.4	113	2
		Chromium, Cr	mg/kg	0.5	75	74	31	2
		Copper, Cu	mg/kg	0.5	13	12	34	2
		Nickel, Ni	mg/kg	0.5	13	14	34	3
		Lead, Pb	mg/kg	1	29	30	33	3
		Zinc, Zn	mg/kg	2	43	46	34	7
SE239041.019	LB264249.024	Arsenic, As	mg/kg	1	3	2	69	17
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	64	63	31	3
		Copper, Cu	mg/kg	0.5	20	19	33	4
		Nickel, Ni	mg/kg	0.5	34	32	32	4

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued) — **Method: ME-(AU)-[ENV]AN040/AN320**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.019	LB264249.024	Lead, Pb	mg/kg	1	13	12	38	7
		Zinc, Zn	mg/kg	2	30	34	36	12
SE239041.029	LB264250.014	Arsenic, As	mg/kg	1	3	3	65	17
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	38	45	31	16
		Copper, Cu	mg/kg	0.5	11	8.5	35	25
		Nickel, Ni	mg/kg	0.5	7.8	6.3	37	22
		Lead, Pb	mg/kg	1	14	15	37	5
		Zinc, Zn	mg/kg	2	12	15	45	19
SE239041.038	LB264250.024	Arsenic, As	mg/kg	1	3	3	68	4
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	33	31	32	6
		Copper, Cu	mg/kg	0.5	1.9	2.1	55	8
		Nickel, Ni	mg/kg	0.5	1.9	2.1	55	12
		Lead, Pb	mg/kg	1	12	14	38	10
		Zinc, Zn	mg/kg	2	4.2	4.6	76	10
SE239041.048	LB264247.014	Arsenic, As	mg/kg	1	3	2	72	20
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	110	110	30	3
		Copper, Cu	mg/kg	0.5	18	16	33	12
		Nickel, Ni	mg/kg	0.5	55	52	31	5
		Lead, Pb	mg/kg	1	11	12	39	7
		Zinc, Zn	mg/kg	2	27	25	38	6
SE239041.057	LB264247.024	Arsenic, As	mg/kg	1	3	3	64	28
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	87	75	31	15
		Copper, Cu	mg/kg	0.5	28	13	32	71 ②
		Nickel, Ni	mg/kg	0.5	68	31	31	75 ②
		Lead, Pb	mg/kg	1	8	11	40	33
		Zinc, Zn	mg/kg	2	25	15	40	52 ②
SE239041.067	LB264253.014	Arsenic, As	mg/kg	1	5	6	49	22
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	37	49	31	29
		Copper, Cu	mg/kg	0.5	6.0	5.2	39	15
		Nickel, Ni	mg/kg	0.5	3.8	3.4	44	10
		Lead, Pb	mg/kg	1	17	20	35	16
		Zinc, Zn	mg/kg	2	10	10	49	2
SE239041.076	LB264253.024	Arsenic, As	mg/kg	1	3	3	66	5
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	12	15	34	24
		Copper, Cu	mg/kg	0.5	9.4	12	35	21
		Nickel, Ni	mg/kg	0.5	5.6	7.1	38	23
		Lead, Pb	mg/kg	1	6	7	44	15
		Zinc, Zn	mg/kg	2	8.9	11	50	23
SE239041.098	LB264254.024	Arsenic, As	mg/kg	1	<1	<1	200	0
		Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
		Chromium, Cr	mg/kg	0.5	<0.5	<0.5	200	0
		Copper, Cu	mg/kg	0.5	<0.5	<0.5	161	0
		Nickel, Ni	mg/kg	0.5	<0.5	<0.5	200	0
		Lead, Pb	mg/kg	1	<1	<1	200	0
		Zinc, Zn	mg/kg	2	<2	<2	200	0

Trace Metals (Dissolved) in Water by ICPMS — **Method: ME-(AU)-[ENV]AN318**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239071.003	LB263915.014	Cadmium	µg/L	0.1	0.0	<0.1	200	199
		Chromium	µg/L	1	0	<1	200	199
		Copper	µg/L	1	2	2	66	3
		Lead	µg/L	1	0	<1	200	179
		Nickel	µg/L	1	4	4	41	1
		Zinc	µg/L	5	6	6	95	7
SE239110.002	LB263915.023	Copper	µg/L	1	2	3	57	10

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Trace Metals (Dissolved) in Water by ICPMS (continued) — **Method: ME-(AU)-[ENV]AN318**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239110.002	LB263915.023		Zinc	µg/L	5	9	10	68	1

TRH (Total Recoverable Hydrocarbons) in Soil — **Method: ME-(AU)-[ENV]AN403**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.010	LB263988.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE239041.019	LB263988.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE239041.029	LB263989.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE239041.038	LB263989.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE239041.048	LB263997.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE239041.057	LB263997.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.057	LB263997.024	TRH F Bands	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE239041.067	LB263998.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE239041.076	LB263998.024		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE239041.086	LB263999.014		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0
SE239041.094	LB263999.026		TRH C10-C14	mg/kg	20	<20	<20	200	0
			TRH C15-C28	mg/kg	45	<45	<45	200	0
			TRH C29-C36	mg/kg	45	<45	<45	200	0
			TRH C37-C40	mg/kg	100	<100	<100	200	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	200	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	200	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.010	LB264031.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.6	12.0	50	5
			d8-toluene (Surrogate)	mg/kg	-	9.8	9.0	50	8
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.9	9.5	50	5
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE239041.019	LB264031.024	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.019	LB264031.024	Monocyclic	o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.9	12.2	50	5
			d8-toluene (Surrogate)	mg/kg	-	9.6	9.0	50	6
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.8	9.3	50	5
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE239041.029	LB264032.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	8.9	50	1
			d8-toluene (Surrogate)	mg/kg	-	9.0	9.1	50	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.8	7.9	50	2
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE239041.038	LB264032.024	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	8.9	50	4
			d8-toluene (Surrogate)	mg/kg	-	8.8	9.0	50	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	7.8	50	3
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE239041.048	LB264033.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.4	9.3	50	0
			d8-toluene (Surrogate)	mg/kg	-	9.4	9.3	50	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.2	9.4	50	1
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE239041.057	LB264033.024	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.3	9.7	50	16
			d8-toluene (Surrogate)	mg/kg	-	11.0	9.8	50	12
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.2	9.6	50	4
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE239041.067	LB264034.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.6	7.1	50	6
			d8-toluene (Surrogate)	mg/kg	-	7.4	7.2	50	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.0	7.4	50	8
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.067	LB264034.014	Totals	Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE239041.076	LB264034.024	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.1	8.0	50	2
			d8-toluene (Surrogate)	mg/kg	-	8.4	8.8	50	5
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	8.3	50	0
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE239041.086	LB264035.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.1	9.6	50	5
			d8-toluene (Surrogate)	mg/kg	-	10.1	9.6	50	5
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.1	9.5	50	6
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE239041.093	LB264035.027	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	0.2	0.2	86	21
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.3	8.2	50	1
			d8-toluene (Surrogate)	mg/kg	-	7.9	8.0	50	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.9	8.0	50	1
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	197	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.096	LB264092.022	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	4.6	4.8	41	4
		Hydrocarbons	Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.8	10.7	30	19
			d8-toluene (Surrogate)	µg/L	-	11.3	10.5	30	7
			Bromofluorobenzene (Surrogate)	µg/L	-	10.2	10.1	30	1
		Totals	Total BTEX	µg/L	3	5	5	94	4

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.010	LB264031.014		TRH C6-C10 raw	µg/L	0.05	8.1	8.9	200	9
			TRH C6-C9 raw	µg/L	0.05	7.4	8.0	200	7
			TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.6	12.0	30	5
			d8-toluene (Surrogate)	mg/kg	-	9.8	9.0	30	8
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.9	9.5	30	5
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE239041.019	LB264031.024		TRH C6-C10 raw	µg/L	0.05	8.8	6.5	200	31
			TRH C6-C9 raw	µg/L	0.05	8.1	5.8	200	33
			TRH C6-C10	mg/kg	25	<25	<25	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Volatile Petroleum Hydrocarbons in Soil (continued) — **Method: ME-(AU)-[ENV]AN433**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.019	LB264031.024		TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.9	12.2	30	5
			d8-toluene (Surrogate)	mg/kg	-	9.6	9.0	30	6
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.8	9.3	30	5
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE239041.029	LB264032.014		TRH C6-C10 raw	µg/L	0.05	<0.05	<0.05	200	0
			TRH C6-C9 raw	µg/L	0.05	<0.05	<0.05	200	0
			TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	8.9	30	1
			d8-toluene (Surrogate)	mg/kg	-	9.0	9.1	30	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.8	7.9	30	2
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE239041.038	LB264032.024		TRH C6-C10 raw	µg/L	0.05	<0.05	0.17	200	111
			TRH C6-C9 raw	µg/L	0.05	0.083	0.24	200	98
			TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	8.9	30	4
			d8-toluene (Surrogate)	mg/kg	-	8.8	9.0	30	2
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.6	7.8	30	3
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE239041.048	LB264033.014		TRH C6-C10 raw	µg/L	0.05	<0.05	<0.05	200	0
			TRH C6-C9 raw	µg/L	0.05	<0.05	<0.05	200	0
			TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.4	9.3	30	0
			d8-toluene (Surrogate)	mg/kg	-	9.4	9.3	30	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.2	9.4	30	1
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE239041.057	LB264033.024		TRH C6-C10 raw	µg/L	0.05	<0.05	<0.05	200	0
			TRH C6-C9 raw	µg/L	0.05	<0.05	<0.05	200	0
			TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.3	9.7	30	16
			d8-toluene (Surrogate)	mg/kg	-	11.0	9.8	30	12
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.2	9.6	30	4
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE239041.067	LB264034.014		TRH C6-C10 raw	µg/L	0.05	<0.05	<0.05	200	0
			TRH C6-C9 raw	µg/L	0.05	<0.05	<0.05	200	0
			TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	7.6	7.1	30	6
			d8-toluene (Surrogate)	mg/kg	-	7.4	7.2	30	3
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.0	7.4	30	8
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE239041.076	LB264034.024		TRH C6-C10 raw	µg/L	0.05	<0.05	<0.05	200	0
			TRH C6-C9 raw	µg/L	0.05	<0.05	<0.05	200	0
			TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.1	8.0	30	2
			d8-toluene (Surrogate)	mg/kg	-	8.4	8.8	30	5
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.3	8.3	30	0
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE239041.086	LB264035.014		TRH C6-C10 raw	µg/L	0.05	<0.05	<0.05	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Volatile Petroleum Hydrocarbons in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.086	LB264035.014		TRH C6-C9 raw	µg/L	0.05	<0.05	<0.05	200	0
			TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.1	9.6	30	5
			d8-toluene (Surrogate)	mg/kg	-	10.1	9.6	30	5
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.1	9.5	30	6
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE239041.093	LB264035.027		TRH C6-C10 raw	µg/L	0.05	<0.05	4.4	200	196
			TRH C6-C9 raw	µg/L	0.05	<0.05	1.7	200	189
			TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.3	8.2	30	1
			d8-toluene (Surrogate)	mg/kg	-	7.9	8.0	30	1
			Bromofluorobenzene (Surrogate)	mg/kg	-	7.9	8.0	30	1
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041.096	LB264092.022		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.8	10.7	30	19
			d8-toluene (Surrogate)	µg/L	-	11.3	10.5	30	7
			Bromofluorobenzene (Surrogate)	µg/L	-	10.2	10.1	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0
SE239051.001	LB264092.023		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.8	10.2	30	15
			d8-toluene (Surrogate)	µg/L	-	10.6	10.2	30	4
			Bromofluorobenzene (Surrogate)	µg/L	-	10.1	10.2	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264256.002	Mercury	mg/kg	0.05	0.19	0.2	70 - 130	97
LB264257.002	Mercury	mg/kg	0.05	0.19	0.2	70 - 130	94
LB264259.002	Mercury	mg/kg	0.05	0.19	0.2	70 - 130	96
LB264260.002	Mercury	mg/kg	0.05	0.19	0.2	70 - 130	97
LB264261.002	Mercury	mg/kg	0.05	0.19	0.2	70 - 130	94

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263988.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	93
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	94
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	93
		Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	89
		Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	94
		p,p'-DDT	mg/kg	0.1	0.1	0.2	60 - 140	62
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.15	40 - 130	109
LB263989.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	98
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	102
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	98
		Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	97
		Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	95
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	84
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.15	40 - 130	106
LB263997.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	96
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	101
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	98
		Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	102
		Endrin	mg/kg	0.2	0.2	0.2	60 - 140	100
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	98
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.15	40 - 130	101
LB263998.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	89
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	93
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	94
		Dieldrin	mg/kg	0.2	<0.2	0.2	60 - 140	91
		Endrin	mg/kg	0.2	<0.2	0.2	60 - 140	97
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	103
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.15	40 - 130	104
LB263999.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	89
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	101
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	100
		Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	102
		Endrin	mg/kg	0.2	0.2	0.2	60 - 140	107
		p,p'-DDT	mg/kg	0.1	0.2	0.2	60 - 140	108
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.15	40 - 130	112

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263924.002		Delta BHC	µg/L	0.1	0.2	0.2	60 - 140	110
		Heptachlor	µg/L	0.1	0.2	0.2	60 - 140	109
		Aldrin	µg/L	0.1	0.2	0.2	60 - 140	90
		Dieldrin	µg/L	0.1	0.2	0.2	60 - 140	108
		Endrin	µg/L	0.1	0.2	0.2	60 - 140	104
		p,p'-DDT	µg/L	0.1	0.2	0.2	60 - 140	117
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.16	0.15	40 - 130	108

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263988.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.3	2	60 - 140	114
		Diazinon (Dimpylate)	mg/kg	0.5	2.3	2	60 - 140	116
		Dichlorvos	mg/kg	0.5	1.8	2	60 - 140	88
		Ethion	mg/kg	0.2	2.3	2	60 - 140	116
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	102
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.6	0.5	40 - 130	116

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

OP Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263989.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.7	2	60 - 140	85
		Diazinon (Dimpylate)	mg/kg	0.5	1.7	2	60 - 140	86
		Dichlorvos	mg/kg	0.5	1.6	2	60 - 140	78
		Ethion	mg/kg	0.2	1.4	2	60 - 140	69
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	92
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	95
LB263997.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.7	2	60 - 140	84
		Diazinon (Dimpylate)	mg/kg	0.5	1.7	2	60 - 140	83
		Dichlorvos	mg/kg	0.5	1.5	2	60 - 140	75
		Ethion	mg/kg	0.2	1.3	2	60 - 140	67
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	91
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	96
LB263998.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.7	2	60 - 140	84
		Diazinon (Dimpylate)	mg/kg	0.5	1.7	2	60 - 140	84
		Dichlorvos	mg/kg	0.5	1.5	2	60 - 140	75
		Ethion	mg/kg	0.2	1.3	2	60 - 140	67
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	93
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	98
LB263999.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.9	2	60 - 140	95
		Diazinon (Dimpylate)	mg/kg	0.5	2.0	2	60 - 140	101
		Dichlorvos	mg/kg	0.5	1.7	2	60 - 140	83
		Ethion	mg/kg	0.2	1.8	2	60 - 140	91
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	98
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	97

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263924.002		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	10	8	60 - 140	126
		Diazinon (Dimpylate)	µg/L	0.5	9.9	8	60 - 140	123
		Dichlorvos	µg/L	0.5	9.6	8	60 - 140	120
		Ethion	µg/L	0.2	9.8	8	60 - 140	122
	Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	72
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	84

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263988.002		Naphthalene	mg/kg	0.1	5.2	4	60 - 140	129
		Acenaphthylene	mg/kg	0.1	4.6	4	60 - 140	114
		Acenaphthene	mg/kg	0.1	4.8	4	60 - 140	120
		Phenanthrene	mg/kg	0.1	4.9	4	60 - 140	121
		Anthracene	mg/kg	0.1	4.8	4	60 - 140	120
		Fluoranthene	mg/kg	0.1	4.7	4	60 - 140	119
		Pyrene	mg/kg	0.1	4.8	4	60 - 140	120
		Benzo(a)pyrene	mg/kg	0.1	4.2	4	60 - 140	104
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.5	40 - 130	116
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	102
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.6	0.5	40 - 130	116
LB263989.002		Naphthalene	mg/kg	0.1	4.4	4	60 - 140	111
		Acenaphthylene	mg/kg	0.1	4.3	4	60 - 140	106
		Acenaphthene	mg/kg	0.1	4.5	4	60 - 140	112
		Phenanthrene	mg/kg	0.1	4.5	4	60 - 140	112
		Anthracene	mg/kg	0.1	4.3	4	60 - 140	108
		Fluoranthene	mg/kg	0.1	4.3	4	60 - 140	107
		Pyrene	mg/kg	0.1	4.5	4	60 - 140	112
		Benzo(a)pyrene	mg/kg	0.1	3.9	4	60 - 140	97
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	102
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	92
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	95
LB263997.002		Naphthalene	mg/kg	0.1	4.5	4	60 - 140	111
		Acenaphthylene	mg/kg	0.1	4.2	4	60 - 140	105
		Acenaphthene	mg/kg	0.1	4.5	4	60 - 140	112
		Phenanthrene	mg/kg	0.1	4.5	4	60 - 140	112

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263997.002		Anthracene	mg/kg	0.1	4.3	4	60 - 140	108
		Fluoranthene	mg/kg	0.1	4.3	4	60 - 140	107
		Pyrene	mg/kg	0.1	4.5	4	60 - 140	114
		Benzo(a)pyrene	mg/kg	0.1	3.9	4	60 - 140	97
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	103
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	91
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	96
LB263998.002		Naphthalene	mg/kg	0.1	4.5	4	60 - 140	111
		Acenaphthylene	mg/kg	0.1	4.3	4	60 - 140	107
		Acenaphthene	mg/kg	0.1	4.5	4	60 - 140	113
		Phenanthrene	mg/kg	0.1	4.5	4	60 - 140	114
		Anthracene	mg/kg	0.1	4.4	4	60 - 140	110
		Fluoranthene	mg/kg	0.1	4.3	4	60 - 140	109
		Pyrene	mg/kg	0.1	4.6	4	60 - 140	115
		Benzo(a)pyrene	mg/kg	0.1	3.9	4	60 - 140	98
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	106
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	93
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	98
LB263999.002		Naphthalene	mg/kg	0.1	4.5	4	60 - 140	112
		Acenaphthylene	mg/kg	0.1	4.4	4	60 - 140	110
		Acenaphthene	mg/kg	0.1	4.4	4	60 - 140	111
		Phenanthrene	mg/kg	0.1	4.5	4	60 - 140	111
		Anthracene	mg/kg	0.1	4.3	4	60 - 140	108
		Fluoranthene	mg/kg	0.1	4.3	4	60 - 140	108
		Pyrene	mg/kg	0.1	4.4	4	60 - 140	110
		Benzo(a)pyrene	mg/kg	0.1	4.1	4	60 - 140	103
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	107
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	98
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	40 - 130	97

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263924.002		Naphthalene	µg/L	0.1	32	40	60 - 140	79
		Acenaphthylene	µg/L	0.1	32	40	60 - 140	80
		Acenaphthene	µg/L	0.1	34	40	60 - 140	86
		Phenanthrene	µg/L	0.1	34	40	60 - 140	85
		Anthracene	µg/L	0.1	34	40	60 - 140	85
		Fluoranthene	µg/L	0.1	34	40	60 - 140	85
		Pyrene	µg/L	0.1	33	40	60 - 140	82
		Benzo(a)pyrene	µg/L	0.1	36	40	60 - 140	91
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.5	40 - 130	58
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	72
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	84

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263988.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	108
LB263989.002	Arochlor 1260	mg/kg	0.2	0.4	0.4	60 - 140	101
LB263997.002	Arochlor 1260	mg/kg	0.2	0.5	0.4	60 - 140	125
LB263998.002	Arochlor 1260	mg/kg	0.2	0.5	0.4	60 - 140	113
LB263999.002	Arochlor 1260	mg/kg	0.2	0.5	0.4	60 - 140	131

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263924.002	Arochlor 1260	µg/L	1	<1	0.4	60 - 140	127

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264247.002	Arsenic, As	mg/kg	1	330	318.22	80 - 120	105
	Cadmium, Cd	mg/kg	0.3	4.8	4.81	70 - 130	100
	Chromium, Cr	mg/kg	0.5	39	38.31	80 - 120	103

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264247.002	Copper, Cu	mg/kg	0.5	310	290	80 - 120	106
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	101
	Lead, Pb	mg/kg	1	93	89.9	80 - 120	104
	Zinc, Zn	mg/kg	2	270	273	80 - 120	101
LB264249.002	Arsenic, As	mg/kg	1	350	318.22	80 - 120	111
	Cadmium, Cd	mg/kg	0.3	4.9	4.81	70 - 130	101
	Chromium, Cr	mg/kg	0.5	42	38.31	80 - 120	110
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	112
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	106
	Lead, Pb	mg/kg	1	97	89.9	80 - 120	108
	Zinc, Zn	mg/kg	2	290	273	80 - 120	106
LB264250.002	Arsenic, As	mg/kg	1	350	318.22	80 - 120	110
	Cadmium, Cd	mg/kg	0.3	4.8	4.81	70 - 130	100
	Chromium, Cr	mg/kg	0.5	40	38.31	80 - 120	105
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	111
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	107
	Lead, Pb	mg/kg	1	99	89.9	80 - 120	110
	Zinc, Zn	mg/kg	2	290	273	80 - 120	106
LB264253.002	Arsenic, As	mg/kg	1	350	318.22	80 - 120	109
	Cadmium, Cd	mg/kg	0.3	4.8	4.81	70 - 130	99
	Chromium, Cr	mg/kg	0.5	41	38.31	80 - 120	107
	Copper, Cu	mg/kg	0.5	320	290	80 - 120	111
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	107
	Lead, Pb	mg/kg	1	98	89.9	80 - 120	109
	Zinc, Zn	mg/kg	2	290	273	80 - 120	106
LB264254.002	Arsenic, As	mg/kg	1	360	318.22	80 - 120	112
	Cadmium, Cd	mg/kg	0.3	5.0	4.81	70 - 130	104
	Chromium, Cr	mg/kg	0.5	45	38.31	80 - 120	117
	Copper, Cu	mg/kg	0.5	330	290	80 - 120	112
	Nickel, Ni	mg/kg	0.5	200	187	80 - 120	107
	Lead, Pb	mg/kg	1	99	89.9	80 - 120	110
	Zinc, Zn	mg/kg	2	290	273	80 - 120	108

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263915.002	Arsenic	µg/L	1	19	20	80 - 120	97
	Cadmium	µg/L	0.1	21	20	80 - 120	103
	Chromium	µg/L	1	20	20	80 - 120	101
	Copper	µg/L	1	21	20	80 - 120	105
	Lead	µg/L	1	19	20	80 - 120	94
	Nickel	µg/L	1	21	20	80 - 120	103
	Zinc	µg/L	5	22	20	80 - 120	108

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263988.002		TRH C10-C14	mg/kg	20	47	40	60 - 140	118
		TRH C15-C28	mg/kg	45	49	40	60 - 140	124
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	90
	TRH F Bands	TRH >C10-C16	mg/kg	25	48	40	60 - 140	120
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	112
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	88
LB263989.002		TRH C10-C14	mg/kg	20	46	40	60 - 140	115
		TRH C15-C28	mg/kg	45	48	40	60 - 140	120
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	95
	TRH F Bands	TRH >C10-C16	mg/kg	25	46	40	60 - 140	115
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	110
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	100
LB263997.002		TRH C10-C14	mg/kg	20	48	40	60 - 140	120
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	105
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	90
	TRH F Bands	TRH >C10-C16	mg/kg	25	46	40	60 - 140	115
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	100

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263998.002		TRH C10-C14	mg/kg	20	46	40	60 - 140	115
		TRH C15-C28	mg/kg	45	46	40	60 - 140	115
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	85
	TRH F Bands	TRH >C10-C16	mg/kg	25	46	40	60 - 140	115
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	105
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	90
LB263999.002		TRH C10-C14	mg/kg	20	46	40	60 - 140	115
		TRH C15-C28	mg/kg	45	<45	40	60 - 140	110
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	95
	TRH F Bands	TRH >C10-C16	mg/kg	25	46	40	60 - 140	115
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	105
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	98

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB263924.002		TRH C10-C14	µg/L	50	1200	1200	60 - 140	100
		TRH C15-C28	µg/L	200	1300	1200	60 - 140	104
		TRH C29-C36	µg/L	200	1100	1200	60 - 140	92
	TRH F Bands	TRH >C10-C16	µg/L	60	1300	1200	60 - 140	106
		TRH >C16-C34 (F3)	µg/L	500	1300	1200	60 - 140	110
		TRH >C34-C40 (F4)	µg/L	500	500	600	60 - 140	83

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264031.002	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	4.9	5	60 - 140	98
		Toluene	mg/kg	0.1	5.8	5	60 - 140	117
		Ethylbenzene	mg/kg	0.1	5.0	5	60 - 140	100
		m/p-xylene	mg/kg	0.2	10	10	60 - 140	105
		o-xylene	mg/kg	0.1	5.6	5	60 - 140	112
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.8	10	70 - 130	108
		d8-toluene (Surrogate)	mg/kg	-	9.7	10	70 - 130	97
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.2	10	70 - 130	102
LB264032.002	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	4.8	5	60 - 140	96
		Toluene	mg/kg	0.1	4.8	5	60 - 140	95
		Ethylbenzene	mg/kg	0.1	4.9	5	60 - 140	98
		m/p-xylene	mg/kg	0.2	9.4	10	60 - 140	94
		o-xylene	mg/kg	0.1	5.0	5	60 - 140	100
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.9	10	70 - 130	99
		d8-toluene (Surrogate)	mg/kg	-	10.3	10	70 - 130	103
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.1	10	70 - 130	101
LB264033.002	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	5.2	5	60 - 140	104
		Toluene	mg/kg	0.1	5.1	5	60 - 140	101
		Ethylbenzene	mg/kg	0.1	5.1	5	60 - 140	101
		m/p-xylene	mg/kg	0.2	9.8	10	60 - 140	98
		o-xylene	mg/kg	0.1	5.3	5	60 - 140	106
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.0	10	70 - 130	120
		d8-toluene (Surrogate)	mg/kg	-	11.4	10	70 - 130	114
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.7	10	70 - 130	107
LB264034.002	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	5.0	5	60 - 140	99
		Toluene	mg/kg	0.1	4.7	5	60 - 140	95
		Ethylbenzene	mg/kg	0.1	4.5	5	60 - 140	91
		m/p-xylene	mg/kg	0.2	8.6	10	60 - 140	86
		o-xylene	mg/kg	0.1	4.7	5	60 - 140	95
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	10	70 - 130	93
		d8-toluene (Surrogate)	mg/kg	-	9.4	10	70 - 130	94
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.9	10	70 - 130	89
LB264035.002	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	5.1	5	60 - 140	102
		Toluene	mg/kg	0.1	4.8	5	60 - 140	95
		Ethylbenzene	mg/kg	0.1	4.7	5	60 - 140	93
		m/p-xylene	mg/kg	0.2	7.8	10	60 - 140	78
		o-xylene	mg/kg	0.1	4.8	5	60 - 140	95
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.4	10	70 - 130	124

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264035.002	Surrogates	d8-toluene (Surrogate)	mg/kg	-	11.6	10	70 - 130	116
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.6	10	70 - 130	106

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264092.002	Monocyclic	Benzene	µg/L	0.5	53	45.45	60 - 140	116
	Aromatic	Toluene	µg/L	0.5	51	45.45	60 - 140	112
	Hydrocarbons	Ethylbenzene	µg/L	0.5	51	45.45	60 - 140	111
		m/p-xylene	µg/L	1	100	90.9	60 - 140	111
		o-xylene	µg/L	0.5	51	45.45	60 - 140	111
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.8	10	60 - 140	108
		d8-toluene (Surrogate)	µg/L	-	10.3	10	70 - 130	103
		Bromofluorobenzene (Surrogate)	µg/L	-	10.1	10	70 - 130	101

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264031.002		TRH C6-C10	mg/kg	25	75	92.5	60 - 140	81
		TRH C6-C9	mg/kg	20	50	80	60 - 140	63
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.8	10	70 - 130	108
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.2	10	70 - 130	102
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	43	62.5	60 - 140	69
LB264032.002		TRH C6-C10	mg/kg	25	73	92.5	60 - 140	79
		TRH C6-C9	mg/kg	20	64	80	60 - 140	80
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.9	10	70 - 130	99
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.1	10	70 - 130	101
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	44	62.5	60 - 140	71
LB264033.002		TRH C6-C10	mg/kg	25	97	92.5	60 - 140	104
		TRH C6-C9	mg/kg	20	85	80	60 - 140	106
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.0	10	70 - 130	120
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.7	10	70 - 130	107
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	66	62.5	60 - 140	106
LB264034.002		TRH C6-C10	mg/kg	25	67	92.5	60 - 140	72
		TRH C6-C9	mg/kg	20	53	80	60 - 140	67
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.3	10	70 - 130	93
		Bromofluorobenzene (Surrogate)	mg/kg	-	8.9	10	70 - 130	89
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	39	62.5	60 - 140	63
LB264035.002		TRH C6-C10	mg/kg	25	100	92.5	60 - 140	111
		TRH C6-C9	mg/kg	20	90	80	60 - 140	113
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	12.4	10	70 - 130	124
		Bromofluorobenzene (Surrogate)	mg/kg	-	10.6	10	70 - 130	106
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	76	62.5	60 - 140	122

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264092.002		TRH C6-C10	µg/L	50	930	946.63	60 - 140	98
		TRH C6-C9	µg/L	40	800	818.71	60 - 140	98
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.8	10	60 - 140	108
		d8-toluene (Surrogate)	µg/L	-	10.3	10	70 - 130	103
		Bromofluorobenzene (Surrogate)	µg/L	-	10.1	10	70 - 130	101
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	620	639.67	60 - 140	98

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.095	LB263955.004	Mercury	mg/L	0.0001	0.0017	<0.0001	0.008	82

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.001	LB264256.004	Mercury	mg/kg	0.05	0.19	<0.05	0.2	92
SE239041.020	LB264257.004	Mercury	mg/kg	0.05	0.21	<0.05	0.2	88
SE239041.039	LB264259.004	Mercury	mg/kg	0.05	0.25	0.06	0.2	98
SE239041.058	LB264260.004	Mercury	mg/kg	0.05	0.21	<0.05	0.2	97
SE239041.077	LB264261.004	Mercury	mg/kg	0.05	0.20	<0.05	0.2	86

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.001	LB263988.004		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
			Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	-	-
			Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	94
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	95
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	94
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	<0.2	<0.2	0.2	90
			Endrin	mg/kg	0.2	<0.2	<0.2	0.2	92
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.1	<0.1	0.2	60
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	-	-
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
			Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
			Total OC VIC EPA	mg/kg	1	1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.17	-	111
SE239041.020	LB263989.004		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
			Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	-	-
			Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	94
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	97
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	93
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	<0.2	<0.2	0.2	93
			Endrin	mg/kg	0.2	<0.2	<0.2	0.2	90
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.020	LB263989.004		o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	80
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	-	-
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
			Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
			Total OC VIC EPA	mg/kg	1	1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	-	110
SE239041.039	LB263997.004		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
			Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	-	-
			Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	121
			Heptachlor	mg/kg	0.1	0.3	<0.1	0.2	127
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	123
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	0.3	<0.2	0.2	129
			Endrin	mg/kg	0.2	0.3	<0.2	0.2	126
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	112
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	-	-
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
			Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
			Total OC VIC EPA	mg/kg	1	1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.15	-	99
SE239041.058	LB263998.004		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
			Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	-	-
			Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	97
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	107
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	108
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	0.2	<0.2	0.2	106
			Endrin	mg/kg	0.2	0.2	<0.2	0.2	113
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.058	LB263998.004		p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	121
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	-	-
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
			Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
			Total OC VIC EPA	mg/kg	1	1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.16	0.16	-	105
SE239041.077	LB263999.004		Alpha BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	-	-
			Beta BHC	mg/kg	0.1	<0.1	<0.1	-	-
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	-	-
			Delta BHC	mg/kg	0.1	0.2	<0.1	0.2	93
			Heptachlor	mg/kg	0.1	0.2	<0.1	0.2	105
			Aldrin	mg/kg	0.1	0.2	<0.1	0.2	105
			Isodrin	mg/kg	0.1	<0.1	<0.1	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	-	-
			Dieldrin	mg/kg	0.2	0.2	<0.2	0.2	105
			Endrin	mg/kg	0.2	0.2	<0.2	0.2	106
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	-	-
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	-	-
			Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	-	-
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	-	-
			p,p'-DDT	mg/kg	0.1	0.2	<0.1	0.2	108
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	-	-
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	-	-
			Mirex	mg/kg	0.1	<0.1	<0.1	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	-	-
			Total CLP OC Pesticides	mg/kg	1	1	<1	-	-
			Total OC VIC EPA	mg/kg	1	1	<1	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.17	0.17	-	112

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.001	LB263988.004		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.9	<0.2	2	95
			Diazinon (Dimpylate)	mg/kg	0.5	2.1	<0.5	2	106
			Dichlorvos	mg/kg	0.5	1.6	<0.5	2	80
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	2.0	<0.2	2	98
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
			Malathion	mg/kg	0.2	<0.2	<0.2	-	-
			Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
			Total OP Pesticides*	mg/kg	1.7	7.6	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.6	0.4	-	114
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	102
SE239041.020	LB263989.004		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OP Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.020	LB263989.004		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.9	<0.2	2	93
			Diazinon (Dimpylate)	mg/kg	0.5	1.9	<0.5	2	94
			Dichlorvos	mg/kg	0.5	1.7	<0.5	2	84
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	1.6	<0.2	2	79
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
			Malathion	mg/kg	0.2	<0.2	<0.2	-	-
			Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
			Total OP Pesticides*	mg/kg	1.7	7.0	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	97
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	102
SE239041.039	LB263997.004		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.6	<0.2	2	81
			Diazinon (Dimpylate)	mg/kg	0.5	1.6	<0.5	2	80
			Dichlorvos	mg/kg	0.5	1.5	<0.5	2	73
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	1.3	<0.2	2	63
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
			Malathion	mg/kg	0.2	<0.2	<0.2	-	-
			Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
			Total OP Pesticides*	mg/kg	1.7	6.0	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	92
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	96
SE239041.058	LB263998.004		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.6	<0.2	2	80
			Diazinon (Dimpylate)	mg/kg	0.5	1.6	<0.5	2	80
			Dichlorvos	mg/kg	0.5	1.4	<0.5	2	70
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	1.3	<0.2	2	63
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
			Malathion	mg/kg	0.2	<0.2	<0.2	-	-
			Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
			Total OP Pesticides*	mg/kg	1.7	5.9	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	-	89
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	94
SE239041.077	LB263999.004		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.9	<0.2	2	92
			Diazinon (Dimpylate)	mg/kg	0.5	2.0	<0.5	2	98
			Dichlorvos	mg/kg	0.5	1.5	<0.5	2	73
			Dimethoate	mg/kg	0.5	<0.5	<0.5	-	-
			Ethion	mg/kg	0.2	1.7	<0.2	2	86
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	-	-
			Malathion	mg/kg	0.2	<0.2	<0.2	-	-
			Methidathion	mg/kg	0.5	<0.5	<0.5	-	-
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	-	-
			Total OP Pesticides*	mg/kg	1.7	7.0	<1.7	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	98
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	98

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.001	LB263988.004	Naphthalene	mg/kg	0.1	4.9	<0.1	4	122
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
		Acenaphthylene	mg/kg	0.1	4.9	<0.1	4	123

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.001	LB263988.004		Acenaphthene	mg/kg	0.1	4.7	<0.1	4	117
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.7	<0.1	4	116
			Anthracene	mg/kg	0.1	4.5	<0.1	4	111
			Fluoranthene	mg/kg	0.1	4.4	<0.1	4	108
			Pyrene	mg/kg	0.1	4.7	<0.1	4	116
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1	4.3	<0.1	4	108
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	4.3	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	4.4	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	4.5	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	37	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.6	0.5	-	114
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.6	0.4	-	114
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	102
SE239041.020	LB263989.004		Naphthalene	mg/kg	0.1	4.6	<0.1	4	115
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			Acenaphthylene	mg/kg	0.1	4.5	<0.1	4	111
			Acenaphthene	mg/kg	0.1	4.7	<0.1	4	116
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.7	<0.1	4	118
			Anthracene	mg/kg	0.1	4.6	<0.1	4	114
			Fluoranthene	mg/kg	0.1	4.6	<0.1	4	114
			Pyrene	mg/kg	0.1	4.7	<0.1	4	117
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1	4.2	<0.1	4	104
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	4.2	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	4.3	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	4.3	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	37	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	108
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	97
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	102
SE239041.039	LB263997.004		Naphthalene	mg/kg	0.1	4.4	<0.1	4	110
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			Acenaphthylene	mg/kg	0.1	4.2	<0.1	4	103
			Acenaphthene	mg/kg	0.1	4.4	<0.1	4	110
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.5	<0.1	4	111
			Anthracene	mg/kg	0.1	4.3	<0.1	4	106
			Fluoranthene	mg/kg	0.1	4.2	<0.1	4	105
			Pyrene	mg/kg	0.1	4.5	<0.1	4	111
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1	3.8	<0.1	4	95

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued) — **Method: ME-(AU)-[ENV]AN420**

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.039	LB263997.004		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	3.8	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	3.9	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	4.0	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	34	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	102
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	92
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	96
SE239041.058	LB263998.004		Naphthalene	mg/kg	0.1	4.3	<0.1	4	108
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			Acenaphthylene	mg/kg	0.1	4.1	<0.1	4	102
			Acenaphthene	mg/kg	0.1	4.3	<0.1	4	108
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.3	<0.1	4	108
			Anthracene	mg/kg	0.1	4.2	<0.1	4	104
			Fluoranthene	mg/kg	0.1	4.1	<0.1	4	103
			Pyrene	mg/kg	0.1	4.4	<0.1	4	110
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1	3.8	<0.1	4	94
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	3.8	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	3.9	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	3.9	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	34	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	100
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	-	89
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	94
SE239041.077	LB263999.004		Naphthalene	mg/kg	0.1	4.4	<0.1	4	110
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	-	-
			Acenaphthylene	mg/kg	0.1	4.3	<0.1	4	107
			Acenaphthene	mg/kg	0.1	4.4	<0.1	4	109
			Fluorene	mg/kg	0.1	<0.1	<0.1	-	-
			Phenanthrene	mg/kg	0.1	4.4	<0.1	4	109
			Anthracene	mg/kg	0.1	4.3	<0.1	4	106
			Fluoranthene	mg/kg	0.1	4.2	<0.1	4	105
			Pyrene	mg/kg	0.1	4.4	<0.1	4	108
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Chrysene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(a)pyrene	mg/kg	0.1	4.0	<0.1	4	100
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	-	-
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	4.0	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	4.1	<0.2	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	4.2	<0.3	-	-
			Total PAH (18)	mg/kg	0.8	34	<0.8	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	-	105
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	98
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.5	0.5	-	98

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.001	LB263988.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.4	<0.2	0.4	107
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	-	107
SE239041.020	LB263989.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.5	<0.2	0.4	124
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	-	110
SE239041.039	LB263997.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.5	<0.2	0.4	132
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	-	99
SE239041.058	LB263998.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.5	<0.2	0.4	132
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	-	105
SE239041.077	LB263999.004		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1260	mg/kg	0.2	0.5	<0.2	0.4	125
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	-	113

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.001	LB264249.004	Arsenic, As	mg/kg	1	47	4	50	86
		Cadmium, Cd	mg/kg	0.3	41	<0.3	50	82
		Chromium, Cr	mg/kg	0.5	120	89	50	54 ④

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.001	LB264249.004	Copper, Cu	mg/kg	0.5	50	5.8	50	89
		Nickel, Ni	mg/kg	0.5	52	8.7	50	86
		Lead, Pb	mg/kg	1	61	16	50	91
		Zinc, Zn	mg/kg	2	50	7.5	50	85
SE239041.020	LB264250.004	Arsenic, As	mg/kg	1	43	2	50	82
		Cadmium, Cd	mg/kg	0.3	40	<0.3	50	79
		Chromium, Cr	mg/kg	0.5	110	93	50	41 ④
		Copper, Cu	mg/kg	0.5	64	27	50	74
		Nickel, Ni	mg/kg	0.5	79	48	50	61 ④
		Lead, Pb	mg/kg	1	46	9	50	74
		Zinc, Zn	mg/kg	2	88	71	50	35 ④
SE239041.039	LB264247.004	Arsenic, As	mg/kg	1	54	3	50	102
		Cadmium, Cd	mg/kg	0.3	46	<0.3	50	93
		Chromium, Cr	mg/kg	0.5	55	4.8	50	100
		Copper, Cu	mg/kg	0.5	53	2.0	50	102
		Nickel, Ni	mg/kg	0.5	51	1.1	50	100
		Lead, Pb	mg/kg	1	57	7	50	100
		Zinc, Zn	mg/kg	2	58	8.6	50	98
SE239041.058	LB264253.004	Arsenic, As	mg/kg	1	49	4	50	90
		Cadmium, Cd	mg/kg	0.3	46	<0.3	50	91
		Chromium, Cr	mg/kg	0.5	190	130	50	110
		Copper, Cu	mg/kg	0.5	74	24	50	100
		Nickel, Ni	mg/kg	0.5	130	71	50	121
		Lead, Pb	mg/kg	1	49	3	50	92
		Zinc, Zn	mg/kg	2	85	32	50	106
SE239041.077	LB264254.004	Arsenic, As	mg/kg	1	48	4	50	89
		Cadmium, Cd	mg/kg	0.3	44	<0.3	50	89
		Chromium, Cr	mg/kg	0.5	69	25	50	89
		Copper, Cu	mg/kg	0.5	65	20	50	89
		Nickel, Ni	mg/kg	0.5	52	7.0	50	91
		Lead, Pb	mg/kg	1	55	10	50	90
		Zinc, Zn	mg/kg	2	61	17	50	88

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.095	LB263915.004	Arsenic	µg/L	1	21	2	20	99
		Cadmium	µg/L	0.1	21	<0.1	20	103
		Chromium	µg/L	1	23	3	20	100
		Copper	µg/L	1	23	2	20	103
		Lead	µg/L	1	19	<1	20	95
		Nickel	µg/L	1	27	7	20	102
		Zinc	µg/L	5	26	<5	20	107

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.001	LB263988.004		TRH C10-C14	mg/kg	20	42	<20	40	105
			TRH C15-C28	mg/kg	45	47	<45	40	97
			TRH C29-C36	mg/kg	45	<45	<45	40	77
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	42	<25	40	95
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	42	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	66
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE239041.020	LB263989.004		TRH C10-C14	mg/kg	20	44	<20	40	110
			TRH C15-C28	mg/kg	45	46	<45	40	115
			TRH C29-C36	mg/kg	45	<45	<45	40	100
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F	TRH >C10-C16	mg/kg	25	46	<25	40	115

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.020	LB263989.004	TRH F Bands	TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	46	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	110
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE239041.039	LB263997.004		TRH C10-C14	mg/kg	20	46	<20	40	115
			TRH C15-C28	mg/kg	45	<45	<45	40	110
			TRH C29-C36	mg/kg	45	<45	<45	40	95
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	46	<25	40	115
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	46	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	110
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE239041.058	LB263998.004		TRH C10-C14	mg/kg	20	44	<20	40	110
			TRH C15-C28	mg/kg	45	46	<45	40	115
			TRH C29-C36	mg/kg	45	<45	<45	40	85
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	44	<25	40	110
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	44	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	105
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-
SE239041.077	LB263999.004		TRH C10-C14	mg/kg	20	42	<20	40	105
			TRH C15-C28	mg/kg	45	<45	<45	40	100
			TRH C29-C36	mg/kg	45	<45	<45	40	85
			TRH C37-C40	mg/kg	100	<100	<100	-	-
			TRH C10-C36 Total	mg/kg	110	<110	<110	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	42	<25	40	105
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	42	<25	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	40	100
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	-	-

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.001	LB264031.004	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	5.5	<0.1	5	109
			Toluene	mg/kg	0.1	6.9	<0.1	5	137
			Ethylbenzene	mg/kg	0.1	5.8	<0.1	5	115
			m/p-xylene	mg/kg	0.2	12	<0.2	10	121
			o-xylene	mg/kg	0.1	6.5	<0.1	5	130
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.9	10.0	10	99
			d8-toluene (Surrogate)	mg/kg	-	9.1	7.5	10	91
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.8	8.3	10	98
		Totals	Total BTEX*	mg/kg	0.6	37	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	19	<0.3	-	-
SE239041.020	LB264032.004	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	5.8	<0.1	5	116
			Toluene	mg/kg	0.1	5.9	<0.1	5	117
			Ethylbenzene	mg/kg	0.1	6.1	<0.1	5	121
			m/p-xylene	mg/kg	0.2	12	<0.2	10	118
			o-xylene	mg/kg	0.1	6.3	<0.1	5	126
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	8.6	10	86
			d8-toluene (Surrogate)	mg/kg	-	8.7	8.9	10	87
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.9	7.9	10	89
		Totals	Total BTEX*	mg/kg	0.6	36	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	18	<0.3	-	-
SE239041.039	LB264033.004	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	5.2	<0.1	5	105
			Toluene	mg/kg	0.1	5.3	<0.1	5	107
			Ethylbenzene	mg/kg	0.1	5.2	<0.1	5	104

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.039	LB264033.004	Monocyclic	m/p-xylene	mg/kg	0.2	10	<0.2	10	100
		Aromatic	o-xylene	mg/kg	0.1	5.4	<0.1	5	108
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.4	9.6	10	114
			d8-toluene (Surrogate)	mg/kg	-	12.4	9.5	10	124
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.8	9.7	10	98
		Totals	Total BTEX*	mg/kg	0.6	31	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	16	<0.3	-	-
SE239041.058	LB264034.004	Monocyclic	Benzene	mg/kg	0.1	5.1	<0.1	5	103
		Aromatic	Toluene	mg/kg	0.1	5.1	<0.1	5	101
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	5.0	<0.1	5	100
			m/p-xylene	mg/kg	0.2	9.7	<0.2	10	96
			o-xylene	mg/kg	0.1	5.2	<0.1	5	104
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	8.1	10	88
			d8-toluene (Surrogate)	mg/kg	-	8.2	7.9	10	82
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.5	8.5	10	85
		Totals	Total BTEX*	mg/kg	0.6	30	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	15	<0.3	-	-
SE239041.077	LB264035.004	Monocyclic	Benzene	mg/kg	0.1	5.2	<0.1	5	103
		Aromatic	Toluene	mg/kg	0.1	5.1	<0.1	5	102
		Hydrocarbons	Ethylbenzene	mg/kg	0.1	5.5	<0.1	5	109
			m/p-xylene	mg/kg	0.2	11	<0.2	10	107
			o-xylene	mg/kg	0.1	5.9	<0.1	5	117
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.9	9.8	10	109
			d8-toluene (Surrogate)	mg/kg	-	10.3	9.7	10	103
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.3	10.1	10	103
		Totals	Total BTEX*	mg/kg	0.6	32	<0.6	-	-
			Total Xylenes*	mg/kg	0.3	17	<0.3	-	-

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.001	LB264031.004		TRH C6-C10 raw	µg/L	0.05	800	7.4	-	-
			TRH C6-C9 raw	µg/L	0.05	540	6.1	-	-
			TRH C6-C10	mg/kg	25	84	<25	92.5	90
			TRH C6-C9	mg/kg	20	57	<20	80	70
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.9	10.0	10	99
			d8-toluene (Surrogate)	mg/kg	-	9.1	7.5	10	91
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.8	8.3	-	98
		VPH F	Benzene (F0)	mg/kg	0.1	5.5	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	48	<25	62.5	75
SE239041.020	LB264032.004		TRH C6-C10 raw	µg/L	0.05	760	3.7	-	-
			TRH C6-C9 raw	µg/L	0.05	680	2.7	-	-
			TRH C6-C10	mg/kg	25	97	<25	92.5	105
			TRH C6-C9	mg/kg	20	87	<20	80	109
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.6	8.6	10	86
			d8-toluene (Surrogate)	mg/kg	-	8.7	8.9	10	87
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.9	7.9	-	89
		VPH F	Benzene (F0)	mg/kg	0.1	5.8	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	61	<25	62.5	98
SE239041.039	LB264033.004		TRH C6-C10 raw	µg/L	0.05	970	9.1	-	-
			TRH C6-C9 raw	µg/L	0.05	850	6.3	-	-
			TRH C6-C10	mg/kg	25	93	<25	92.5	100
			TRH C6-C9	mg/kg	20	81	<20	80	101
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	11.4	9.6	10	114
			d8-toluene (Surrogate)	mg/kg	-	12.4	9.5	10	124
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.8	9.7	-	98
		VPH F	Benzene (F0)	mg/kg	0.1	5.2	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	62	<25	62.5	98
SE239041.058	LB264034.004		TRH C6-C10 raw	µg/L	0.05	730	3.2	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Soil (continued) — Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239041.058	LB264034.004		TRH C6-C9 raw	µg/L	0.05	670	<0.050	-	-
			TRH C6-C10	mg/kg	25	72	<25	92.5	77
			TRH C6-C9	mg/kg	20	66	<20	80	82
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	8.1	10	88
			d8-toluene (Surrogate)	mg/kg	-	8.2	7.9	10	82
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.5	8.5	-	85
		VPH F	Benzene (F0)	mg/kg	0.1	5.1	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	42	<25	62.5	66
SE239041.077	LB264035.004		TRH C6-C10 raw	µg/L	0.05	810	2.8	-	-
			TRH C6-C9 raw	µg/L	0.05	730	<0.050	-	-
			TRH C6-C10	mg/kg	25	98	<25	92.5	106
			TRH C6-C9	mg/kg	20	88	<20	80	110
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.9	9.8	10	109
			d8-toluene (Surrogate)	mg/kg	-	10.3	9.7	10	103
			Bromofluorobenzene (Surrogate)	mg/kg	-	10.3	10.1	-	103
		VPH F	Benzene (F0)	mg/kg	0.1	5.2	<0.1	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	66	<25	62.5	105

Volatile Petroleum Hydrocarbons in Water — Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239044.001	LB264092.024		TRH C6-C10	µg/L	50	910	<50	946.63	96
			TRH C6-C9	µg/L	40	800	<50	818.71	97
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.4	0.0	-	94
			d8-toluene (Surrogate)	µg/L	-	9.9	0.0	-	99
			Bromofluorobenzene (Surrogate)	µg/L	-	11.1	0.0	-	111
		VPH F	Benzene (F0)	µg/L	0.5		<0.5	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	590	<50	639.67	92

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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source: SE_Autoscan.pdf page: 1 SGS Ref: SE239041_COC

E-MAILED
14/11@12.23

SGS

LIMS No: _____

Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 16, 33 Maddox Street, Alexandria, NSW 2015 Ph: +61 2 8594 0400 Fax: +61 2 8594 0499 Email: au.samplereceipt.sydney@sgs.com

Laboratory Section

Received Date: 11/11/22 Received By: [signature] Cooling Method: ☐ Ice ☑ Icepack ☐ None Samples intact: ☑ Yes ☐ No

Logged-in Date: _____ Time of Receipt: 4:20 Cooler Sealed: ☑ Yes ☐ No ☐ N/A Temperature: ☐ Ambient ☑ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

INVOICE TO:

Name:	Kannan Kaliappan
Company:	K2 Consulting group
Address:	Suite 222, Building B, 20 Lexington Drive, Bella Vista, NSW 2153
Email:	kannan@consultinggroup.com.au ; info@k2consultinggroup.com.au
Phone:	1800523000 Fax:

Quote #: _____

Attached Parameter List: ☐ Yes ☐ No

Replacement Sample Containers Required: ☐ Yes ☐ No

Results Required By: 5 days TAT Urgent TA requires lab approval

Notes:

Client information | **PO No.:** | **Project No.:** ST-01-1533 (515 CROOKWELL ROAD, KINGSDALE NSW 2580

Company Name: K2 Consulting Group

SGS EHS Sydney COC

SE239041

Contact Name:	Kannan Kaliappan		
Address:	Suite 222, Building B, 20 Lexington Drive, Bella Vista, NSW 2153		
Phone Number:	449669559	**After Hours Phone Number:**	
Fax Number:	**Email:**	kannan@consultinggroup.com.au ; info@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au	

Note: Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

Indicate results format (please check one): Email ☐ Fax ☐

SAMPLE INFORMATION

Lab Sample ID	Sample Identifier	Date Sampled	Time	Matrix: Soil Water Other	# of Bottles	# of Ziplock bags	Analysis Requested											
								CL17 (TRH/BTEXN/PAH/OC/OP/PCB/8HM)	Asbestos in Soil										
1	ST-01-1533-BH11 (0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH11 (0.5m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH11(1.2m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH12(0.2m)	7.11.2022		Soil	1			HOLD										
2	ST-01-1533-BH12(0.7m)	7.11.2022		Soil	1			X										
3	ST-01-1533-BH13(0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH13(0.6m)	7.11.2022		Soil	1			HOLD										
4	ST-01-1533-BH14(0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH14(0.8m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH14(1.6m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH15(0.2m)	7.11.2022		Soil	1			HOLD										
5	ST-01-1533-BH15(0.5m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH15(1.9m)	7.11.2022		Soil	1			HOLD										
6	ST-01-1533-BH16(0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH16(1.0m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH17(0.2m)	7.11.2022		Soil	1			HOLD										
7	ST-01-1533-BH17(0.7m)	7.11.2022		Soil	1			X										
8	ST-01-1533-BH18(0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH18(0.4m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH18(0.9m)	7.11.2022		Soil	1			HOLD										
9	ST-01-1533-BH19(0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH19(0.6m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH19(2.0m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH19(3.0m)	7.11.2022		Soil	1			HOLD										
10	ST-01-1533-BH20(0.2m)	10.11.2022		Soil	1			X										
	ST-01-1533-BH20(0.5m)	10.11.2022		Soil	1			HOLD										
	ST-01-1533-BH21(0.2m)	7.11.2022		Soil	1			HOLD										
11	ST-01-1533-BH21(0.5m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH21(1.2m)	7.11.2022		Soil	1			HOLD										
12	ST-01-1533-BH22(0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH22(0.6m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH22(1.0m)	7.11.2022		Soil	1			HOLD										
13	ST-01-1533-BH23(0.2m)	10.11.2022		Soil	1			X										
	ST-01-1533-BH23(0.5m)	10.11.2022		Soil	1			HOLD										
	ST-01-1533-BH23(0.8m)	10.11.2022		Soi	1			HOLD										
14	ST-01-1533-BH24(0.2m)	7.11.2022		Soil	1			X										

	ST-01-1533-BH24(0.5m)	7.11.2022		Soil	1			HOLD											
	ST-01-1533-BH24(1.3m)	7.11.2022		Soil	1			HOLD											
15	ST-01-1533-BH25(0.2m)	7.11.2022		Soil	1			X											
	ST-01-1533-BH25(0.5m)	7.11.2022		Soil	1			HOLD											
16	ST-01-1533-BH26(surface sample)	7.11.2022		Soil	1			X											
	ST-01-1533-BH26(0.2m)	10.11.2022		Soil	1			HOLD											
	ST-01-1533-BH26(0.5m)	10.11.2022		Soil	1			HOLD											
17	ST-01-1533-BH27(0.2m)	10.11.2022		Soil	1			X											
	ST-01-1533-BH27(0.5m)	10.11.2022		Soil	1			HOLD											
	ST-01-1533-BH28(0.2m)	7.11.2022		Soil	1			HOLD											
18	ST-01-1533-BH28(0.4m)	7.11.2022		Soil	1			X											
	ST-01-1533-BH28(0.9m)	7.11.2022		Soil	1			HOLD											
	ST-01-1533-BH29(0.2m)	10.11.2022		Soil	1			HOLD											
19	ST-01-1533-BH29(0.5m)	10.11.2022		Soil	1			X											
20	ST-01-1533-BH30(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH30(0.5m)	09.11.2022		Soil	1			HOLD											
21	ST-01-1533-BH31(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH31(0.5m)	09.11.2022		Soil	1			HOLD											
22	ST-01-1533-BH32(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH32(0.5m)	08.11.2022			1			HOLD											
23	ST-01-1533-BH33(0.2m)	08.11.2022			1			X											
	ST-01-1533-BH33(0.5m)	08.11.2022		Soil	1			HOLD											
24	ST-01-1533-BH34(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH34(0.8m)	08.11.2022		Soil	1			HOLD											
25	ST-01-1533-BH35(0.2m)	7.11.2022		Soil	1			X											
	ST-01-1533-BH35(0.8m)	7.11.2022		Soil	1			HOLD											
26	ST-01-1533-BH36(0.6m)	7.11.2022		Soil	1			X											
	ST-01-1533-BH37(0.2m)	09.11.2022		Soil	1			HOLD											
27	ST-01-1533-BH37(0.6m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH37(0.8m)	09.11.2022		Soil	1			HOLD											
28	ST-01-1533-BH38(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH38(0.8m)	09.11.2022		Soil	1			HOLD											
29	ST-01-1533-BH39(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH39(0.75m)	09.11.2022		Soil	1			HOLD											
30	ST-01-1533-BH40(0.2m)	7.11.2022		Soil	1			X											
	ST-01-1533-BH40(0.5m)	7.11.2022		Soil	1			HOLD											
	ST-01-1533-BH40(1.4m)	7.11.2022		Soil	1			HOLD											
	ST-01-1533-BH41(0.2m)	7.11.2022		Soil	1			HOLD											
31	ST-01-1533-BH41(0.5m)	7.11.2022		Soil	1			X											
	ST-01-1533-BH41(1.4m)	7.11.2022		Soil	1			HOLD											
32	ST-01-1533-BH42(0.2m)	7.11.2022		Soil	1			X											
	ST-01-1533-BH42(0.5m)	7.11.2022		Soil	1			HOLD											
	ST-01-1533-BH42(1.2m)	7.11.2022		Soil	1			HOLD											
33	ST-01-1533-BH43(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH43(0.5m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH43(1.1m)	09.11.2022		Soil	1			HOLD											
34	ST-01-1533-BH44(0.2m)	09.11.2022		Soil	1			X											

	ST-01-1533-BH44(0.6m)	09.11.2022		Soil	1			HOLD											
35	ST-01-1533-BH45(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH45(0.7m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH45(1.1m)	09.11.2022		Soil	1			HOLD											
36	ST-01-1533-BH46(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH46(0.5m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH47(0.2m)	08.11.2022		Soil	1			HOLD											
37	ST-01-1533-BH47(0.7m)	08.11.2022		Soil	1			X											
38	ST-01-1533-BH48(0.1m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH48(0.6m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH49(0.2m)	08.11.2022		Soil	1			HOLD											
39	ST-01-1533-BH49(0.5m)	08.11.2022		Soil	1			X											
40	ST-01-1533-BH50(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH50(0.6m)	08.11.2022		Soil	1			HOLD											
41	ST-01-1533-BH51(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH51(0.6m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH52(0.2m)	08.11.2022		Soil	1			HOLD											
42	ST-01-1533-BH52(0.7m)	08.11.2022		Soil	1			X											
43	ST-01-1533-BH53(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH53(0.8m)	08.11.2022		Soil	1			HOLD											
44	ST-01-1533-BH54(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH54(0.5m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH54(0.9m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH55(0.2m)	09.11.2022		Soil	1			HOLD											
45	ST-01-1533-BH55(0.7m)	09.11.2022		Soil	1			X											
46	ST-01-1533-BH56(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH56(0.9m)	09.11.2022		Soil	1			HOLD											
47	ST-01-1533-BH57(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH57(0.5m)	09.11.2022		Soil	1			HOLD											
48	ST-01-1533-BH58(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH58(0.5m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH58(1.1m)	09.11.2022		Soil	1			HOLD											
49	ST-01-1533-BH59(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH59(0.6m)	09.11.2022		Soil	1			HOLD											
50	ST-01-1533-BH60(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH60(0.6m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH61(0.2m)	09.11.2022		Soil	1			HOLD											
51	ST-01-1533-BH61(0.5m)	09.11.2022		Soil	1			X											
52	ST-01-1533-BH62(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH62(0.7m)	09.11.2022		Soil	1			HOLD											
53	ST-01-1533-BH63(0.2m)	7.11.2022		Soil	1			X											
	ST-01-1533-BH63(0.6m)	08.11.2022		Soil	1			HOLD											
54	ST-01-1533-BH64(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH64(0.5m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH64(0.9m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH65(0.2m)	08.11.2022		Soil	1			HOLD											
55	ST-01-1533-BH65(0.9m)	08.11.2022		Soil	1			X											

56	ST-01-1533-BH66(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH66(0.6m)	08.11.2022		Soil	1			HOLD											
57	ST-01-1533-BH67(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH67(0.6m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH67(1.0m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH68(0.2m)	08.11.2022		Soil	1			HOLD											
58	ST-01-1533-BH68(0.6m)	08.11.2022		Soil	1			X											
59	ST-01-1533-BH69(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH69(0.4m)	08.11.2022			1			HOLD											
60	ST-01-1533-BH70(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH70(0.9m)	08.11.2022		Soil	1			HOLD											
61	ST-01-1533-BH71(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH71(0.9m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH72(0.2m)	08.11.2022		Soil	1			HOLD											
62	ST-01-1533-BH72(0.8m)	08.11.2022		Soil	1			X											
63	ST-01-1533-BH73(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH73(0.9m)	08.11.2022		Soil	1			HOLD											
64	ST-01-1533-BH74(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH74(0.5m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH74(1.1m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH75(0.2m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH75(0.7m)	08.11.2022		Soil	1			HOLD											
65	ST-01-1533-BH75(1.0m)	08.11.2022		Soil	1			X											
66	ST-01-1533-BH76(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH76(0.6m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH76(1.1m)	08.11.2022		Soil	1			HOLD											
67	ST-01-1533-BH77(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH77(0.7m)	08.11.2022		Soil	1			HOLD											
68	ST-01-1533-BH78(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH78(0.8m)	09.11.2022		Soil	1			HOLD											
69	ST-01-1533-BH79(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH79(0.4m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH79(1.1m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH80(0.2m)	09.11.2022		Soil	1			HOLD											
70	ST-01-1533-BH80(0.6m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH81(0.2m)	09.11.2022		Soil	1			HOLD											
71	ST-01-1533-BH81(0.8m)	09.11.2022		Soil	1			X											
72	ST-01-1533-BH82(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH82(0.7m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH82(1.2m)	09.11.2022		Soil	1			HOLD											
73	ST-01-1533-BH83(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH83(0.5m)	09.11.2022		Soil	1			HOLD											
74	ST-01-1533-BH84(0.1m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH84(0.7m)	09.11.2022		Soil	1			HOLD											
75	ST-01-1533-BH85(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH85(0.5m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH85(1.1m)	09.11.2022		Soil	1			HOLD											

	ST-01-1533-BH86(0.1m)	09.11.2022		Soil	1			HOLD											
76	ST-01-1533-BH86(0.7m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH86(1.1m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH87(0.2m)	09.11.2022		Soil	1			HOLD											
77	ST-01-1533-BH87(0.8m)	09.11.2022		Soil	1			X											
78	ST-01-1533-BH88(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH88(0.8m)	09.11.2022		Soil	1			HOLD											
79	ST-01-1533-BH89(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH89(0.5m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH89(1.1m)	09.11.2022		Soil	1			HOLD											
80	ST-01-1533-BH90(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH90(0.5m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH90(0.9m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH91(0.2m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH91(0.8m)	09.11.2022		Soil	1			HOLD											
81	ST-01-1533-BH91(1.0m)	09.11.2022		Soil	1			X											
82	ST-01-1533-BH92(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH92(0.8m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH92(1.1m)	09.11.2022		Soil	1			HOLD											
83	ST-01-1533-BH93(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH93(0.6m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH93(1.2m)	08.11.2022		Soil	1			HOLD											
84	ST-01-1533-BH94(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH94(0.5m)	08.11.2022		Soil	1			HOLD											
85	ST-01-1533-BH95(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH95(0.6m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH95(1.1m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH96(0.2m)	08.11.2022		Soil	1			HOLD											
86	ST-01-1533-BH96(0.7m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH96(1.2m)	08.11.2022		Soil	1			HOLD											
87	ST-01-1533-BH97(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH97(0.8m)	08.11.2022		Soil	1			HOLD											
88	ST-01-1533-BH98(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH98(0.5m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH98(1.1m)	08.11.2022		Soil	1			HOLD											
89	ST-01-1533-BR1	07.11.2022		Soil	1			X											
90	ST-01-1533-BR2	08.11.2022		Soil	1			X											
91	ST-01-1533-BR3	09.11.2022		Soil	1			X											
92	ST-01-1533-BR4	09.11.2022		Soil	1			X											
93	ST-01-1533-WD1	10.11.2022		Soil	1			X											
94	ST-01-1533-WD2	10.11.2022		Soil	1			X											
	ST-01-1533-BH11-ASB (0.2m)	07.11.2022		Soil		1			X										
	ST-01-1533-BH11-ASB (0.5m)	07.11.2022		Soil		1			HOLD										
	ST-01-1533-BH11-ASB(1.2m)	07.11.2022		Soil		1			HOLD										
	ST-01-1533-BH12-ASB(0.2m)	07.11.2022		Soil		1			X										
	ST-01-1533-BH12-ASB(0.7m)	07.11.2022		Soil		1			HOLD										
	ST-01-1533-BH13-ASB(0.2m)	07.11.2022		Soil		1			HOLD										

	ST-01-1533-BH53ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH54-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH55-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH56-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH57-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH58-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH59-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH60-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH61-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH62-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH63-ASB(0.2m)	7.11.2022		Soil		1			X										
	ST-01-1533-BH64-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
	ST-01-1533-BH65-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH66-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
	ST-01-1533-BH67-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH68-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
	ST-01-1533-BH69-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH70-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
	ST-01-1533-BH71-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH72-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
	ST-01-1533-BH74-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH75-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
	ST-01-1533-BH76-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH77-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
	ST-01-1533-BH78-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH79-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH80-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH81-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH82-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH83-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH84-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH85-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH86-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH87-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH88-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH89-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH90-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH91-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH93-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH95-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
	ST-01-1533-BH96-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH97-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
	ST-01-1533-BH98-ASB(0.2m)	08.11.2022		Soil		1			X										
95	ST-01-1533-WD1	10.11.2022		Water	4			X											
96	ST-01-1533-WD2	10.11.2022		Water	4			X											
97	ST-01-1533-RIN	10.11.2022		Rinsate	4			X											
98	TRIP BLANK				1			X											

99	TRIP SPIKE				1			X											

Sampled By:	Sirish Baniya			Date:	07/11/2022 - 10/11/2022
Relinquished By:	Sirish Baniya			Date:	11/11/2022 Time: 3pm

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Kannan Kaliappan
Client	K2 CONSULTING GROUP
Address	SUITE 222, 20B LEXINGTON DRIVE BELLA VISTA NSW 2153
Telephone	61 8 00 523 000
Facsimile	(Not specified)
Email	kannan@k2consultinggroup.com.au
Project	**ST-01-1533 (515 Crookwell Road,Kingsdale**
Order Number	**ST-01-1533**
Samples	44

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE239042 R0**
Date Received	11 Nov 2022
Date Reported	21 Nov 2022

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all soil samples using trace analysis technique.
Asbestos analysed by Approved Identifiers Ravee Sivasubramaniam and Yusuf Kuthpudin .

SIGNATORIES

S. Ravensdale

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

RESULTS

Fibre Identification in soil — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE239042.001	ST-01-1533-BH1 1-ASB(0.2m)	Soil	50g Clay,Rocks	07 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.002	ST-01-1533-BH1 2-ASB(0.2m)	Soil	42g Clay,Sand,Soil, Rocks	07 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.003	ST-01-1533-BH1 4-ASB(0.2m)	Soil	69g Clay,Sand,Rock s	07 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.004	ST-01-1533-BH1 5-ASB(0.2m)	Soil	73g Clay,Sand,Rock s	07 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.005	ST-01-1533-BH1 6-ASB(0.2m)	Soil	57g Sand,Soil,Rocks	07 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.006	ST-01-1533-BH1 9-ASB(0.2m)	Soil	64g Clay,Sand,Soil	07 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.007	ST-01-1533-BH2 0-ASB(0.2m)	Soil	61g Clay,Sand,Rock s	10 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.008	ST-01-1533-BH2 3-ASB(0.2m)	Soil	70g Clay,Sand,Soil, Rocks	10 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.009	ST-01-1533-BH4 1-ASB(0.2m)	Soil	56g Clay,Sand,Rock s	07 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.010	ST-01-1533-BH2 6-ASB(0.2m)	Soil	72g Clay,Sand,Soil, Rocks	10 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.011	ST-01-1533-BH2 7-ASB(0.2m)	Soil	58g Clay,Sand,Soil, Rocks	10 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.012	ST-01-1533-BH2 9-ASB(0.2m)	Soil	64g Clay,Sand,Rock s	10 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.013	ST-01-1533-BH3 1-ASB(0.2m)	Soil	49g Clay,Sand,Rock s	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.014	ST-01-1533-BH3 3-ASB(0.2m)	Soil	70g Clay,Rocks	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.015	ST-01-1533-BH3 7-ASB(0.2m)	Soil	71g Clay,Sand,Rock s	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.016	ST-01-1533-BH4 0-ASB(0.2m)	Soil	60g Clay,Sand,Rock s	07 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.017	ST-01-1533-BH4 2-ASB(0.2m)	Soil	24g Clay,Sand,Soil, Rocks	07 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.018	ST-01-1533-BH4 3-ASB(0.2m)	Soil	61g Clay,Sand,Soil	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.019	ST-01-1533-BH4 5-ASB(0.2m)	Soil	59g Soil,Rocks	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.020	ST-01-1533-BH4 7-ASB(0.2m)	Soil	60g Clay,Sand	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.021	ST-01-1533-BH4 9-ASB(0.2m)	Soil	24g Soil,Plant Matter	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01

RESULTS

Fibre Identification in soil — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE239042.022	ST-01-1533-BH5 1-ASB(0.2m)	Soil	53g Soil,Rocks,Plant Matter	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.023	ST-01-1533-BH5 3-ASB(0.2m)	Soil	96g Clay,Soil	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.024	ST-01-1533-BH5 5-ASB(0.2m)	Soil	56g Clay,Soil	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.025	ST-01-1533-BH5 7-ASB(0.2m)	Soil	49g Clay,Soil	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.026	ST-01-1533-BH5 9-ASB(0.2m)	Soil	38g Clay,Soil	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.027	ST-01-1533-BH6 1-ASB(0.2m)	Soil	67g Clay,Sand,Soil	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.028	ST-01-1533-BH6 3-ASB(0.2m)	Soil	66g Clay,Sand	07 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.029	ST-01-1533-BH6 5-ASB(0.2m)	Soil	49g Clay,Sand	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.030	ST-01-1533-BH6 7-ASB(0.2m)	Soil	56g Clay,Sand,Rock s	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.031	ST-01-1533-BH6 9-ASB(0.2m)	Soil	58g Clay	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.032	ST-01-1533-BH7 1-ASB(0.2m)	Soil	57g Clay,Soil	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.033	ST-01-1533-BH7 4-ASB(0.2m)	Soil	54g Clay,Sand	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.034	ST-01-1533-BH7 6-ASB(0.2m)	Soil	60g Clay,Sand	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.035	ST-01-1533-BH7 8-ASB(0.2m)	Soil	81g Clay,Sand	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.036	ST-01-1533-BH8 0-ASB(0.2m)	Soil	103g Clay,Sand	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.037	ST-01-1533-BH8 2-ASB(0.2m)	Soil	58g Clay,Sand,Rock s,Plant Matter	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.038	ST-01-1533-BH8 4-ASB(0.2m)	Soil	62g Clay,Sand,Rock s,Plant Matter	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.039	ST-01-1533-BH8 6-ASB(0.2m)	Soil	59g Clay,Sand,Rock s	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.040	ST-01-1533-BH8 8-ASB(0.2m)	Soil	57g Clay,Rocks	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.041	ST-01-1533-BH9 0-ASB(0.2m)	Soil	75g Clay,Sand,Rock s,Plant Matter	09 Nov 2022	No Asbestos Found at RL of 0.1g/kg Organic Fibres Detected	<0.01
SE239042.042	ST-01-1533-BH9 3-ASB(0.2m)	Soil	78g Clay,Sand,Rock s	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.043	ST-01-1533-BH9 6-ASB(0.2m)	Soil	63g Clay,Sand,Rock s	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01
SE239042.044	ST-01-1533-BH9 8-ASB(0.2m)	Soil	71g Clay,Sand,Rock s	08 Nov 2022	No Asbestos Found at RL of 0.1g/kg	<0.01

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples , Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."
AN602	The sample can be reported “no asbestos found at the reporting limit (RL) of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (a) no trace asbestos fibres have been detected (i.e. no ‘respirable ’ fibres): (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	NATA accreditation does not cover the performance of this service .
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.
			***	-	Indicates that both * and ** apply.

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.
Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.
Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos -containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company 's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

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source: SE_Autoscan.pdf page: 1 SGS Ref: SE239042_COC

E-MAILED
17/4/12-23

SGS

LIMS No: _____

Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 16, 33 Maddox Street, Alexandria, NSW 2015 Ph: +61 2 8594 0400 Fax: +61 2 8594 0499 Email: au.samplereceipt.sydney@sgs.com

Laboratory Section

Received Date: 11/11/22 Received By: Subaraj Cooling Method: ☐ Ice ☑ Icepack ☐ None Samples intact: ☑ Yes ☐ No

Logged-In Date: _____ Time of Receipt: 4:20 Cooler Sealed: ☑ Yes ☐ No ☐ N/A Temperature: ☐ Ambient ☑ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

INVOICE TO:

Name:	Kannan Kaliappan
Company:	K2 Consulting group
Address:	Suite 222, Building B, 20 Lexington Drive, Bella Vista, NSW 2153
Email:	kannan@consultingroup.com.au, info@k2consultingroup.com.au
Phone:	1800523000 Fax:

Quote #: _____

Attached Parameter List: ☐ Yes ☐ No

Replacement Sample Containers Required: ☐ Yes ☐ No

Results Required By: 5 days TAT Urgent TA requires lab approval

Notes:

Client Information | PO No.: | Project No.: ST-01-1533 (515 CROOKWELL ROAD, KINGSDALE NSW 2580

Company Name: K2 Consulting Group

SGS EHS Sydney

SE239042

Contact Name:	Kannan Kaliappan		
Address:	Suite 222, Building B, 20 Lexington Drive, Bella Vista, NSW 2153		
Phone Number:	449669559	**After Hours Phone Number:**	
Fax Number:		**Email:**	kannan@consultinggroup.com.au ; info@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

Note: Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

Indicate results format (please check one): Email ☐ Fax ☐

SAMPLE INFORMATION

Lab Sample ID	Sample Identifier	Date Sampled	Time	Matrix: Soil Water Other	# of Bottles	# of Ziplock bags	Analysis Requested											
								CL17 (TRH/BTEXN/PAH/OC/OP/PCB/8HM)	Asbestos in Soil										
	ST-01-1533-BH11 (0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH11 (0.5m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH11(1.2m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH12(0.2m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH12(0.7m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH13(0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH13(0.6m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH14(0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH14(0.8m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH14(1.6m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH15(0.2m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH15(0.5m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH15(1.9m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH16(0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH16(1.0m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH17(0.2m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH17(0.7m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH18(0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH18(0.4m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH18(0.9m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH19(0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH19(0.6m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH19(2.0m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH19(3.0m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH20(0.2m)	10.11.2022		Soil	1			X										
	ST-01-1533-BH20(0.5m)	10.11.2022		Soil	1			HOLD										
	ST-01-1533-BH21(0.2m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH21(0.5m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH21(1.2m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH22(0.2m)	7.11.2022		Soil	1			X										
	ST-01-1533-BH22(0.6m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH22(1.0m)	7.11.2022		Soil	1			HOLD										
	ST-01-1533-BH23(0.2m)	10.11.2022		Soil	1			X										
	ST-01-1533-BH23(0.5m)	10.11.2022		Soil	1			HOLD										
	ST-01-1533-BH23(0.8m)	10.11.2022		Soi	1			HOLD										
	ST-01-1533-BH24(0.2m)	7.11.2022		Soil	1			X										

	ST-01-1533-BH86(0.1m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH86(0.7m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH86(1.1m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH87(0.2m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH87(0.8m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH88(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH88(0.8m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH89(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH89(0.5m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH89(1.1m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH90(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH90(0.5m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH90(0.9m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH91(0.2m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH91(0.8m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH91(1.0m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH92(0.2m)	09.11.2022		Soil	1			X											
	ST-01-1533-BH92(0.8m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH92(1.1m)	09.11.2022		Soil	1			HOLD											
	ST-01-1533-BH93(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH93(0.6m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH93(1.2m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH94(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH94(0.5m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH95(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH95(0.6m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH95(1.1m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH96(0.2m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH96(0.7m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH96(1.2m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH97(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH97(0.8m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH98(0.2m)	08.11.2022		Soil	1			X											
	ST-01-1533-BH98(0.5m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BH98(1.1m)	08.11.2022		Soil	1			HOLD											
	ST-01-1533-BR1	07.11.2022		Soil	1			X											
	ST-01-1533-BR2	08.11.2022		Soil	1			X											
	ST-01-1533-BR3	09.11.2022		Soil	1			X											
	ST-01-1533-BR4	09.11.2022		Soil	1			X											
	ST-01-1533-WD1	10.11.2022		Soil	1			X											
	ST-01-1533-WD2	10.11.2022		Soil	1			X											
1	ST-01-1533-BH11-ASB (0.2m)	07.11.2022		Soil		1			X										
	ST-01-1533-BH11-ASB (0.5m)	07.11.2022		Soil		1			HOLD										
	ST-01-1533-BH11-ASB(1.2m)	07.11.2022		Soil		1			HOLD										
2	ST-01-1533-BH12-ASB(0.2m)	07.11.2022		Soil		1			X										
	ST-01-1533-BH12-ASB(0.7m)	07.11.2022		Soil		1			HOLD										
	ST-01-1533-BH13-ASB(0.2m)	07.11.2022		Soil		1			HOLD										

3	ST-01-1533-BH14-ASB(0.2m)	07.11.2022		Soil		1			X										
	ST-01-1533-BH14-ASB(0.8m)	07.11.2022		Soil		1			HOLD										
	ST-01-1533-BH14-ASB(1.6m)	07.11.2022		Soil		1			HOLD										
4	ST-01-1533-BH15-ASB(0.2m)	07.11.2022		Soil		1			X										
	ST-01-1533-BH15-ASB(0.9m)	07.11.2022		Soil		1			HOLD										
5	ST-01-1533-BH16-ASB(0.2m)	07.11.2022		Soil		1			X										
	ST-01-1533-BH16-ASB(1.0m)	07.11.2022		Soil		1			HOLD										
	ST-01-1533-BH17-ASB(0.7m)	07.11.2022		Soil		1			HOLD										
	ST-01-1533-BH17-ASB(0.2m)	07.11.2022		Soil		1			HOLD										
6	ST-01-1533-BH19-ASB(0.2m)	07.11.2022		Soil		1			X										
	ST-01-1533-BH19-ASB(0.6m)	07.11.2022		Soil		1			HOLD										
7	ST-01-1533-BH20-ASB(0.2m)	10.11.2022		Soil		1			X										
	ST-01-1533-BH22-ASB(0.2m)	07.11.2022		Soil		1			HOLD										
	ST-01-1533-BH22-ASB(0.6m)	07.11.2022		Soil		1			HOLD										
8	ST-01-1533-BH23-ASB(0.2m)	10.11.2022		Soil		1			X										
X	ST-01-1533-BH24-ASB(0.2m)	07.11.2022		Soil		1			X										
	ST-01-1533-BH25-ASB(0.2m)	07.11.2022		Soil		1			HOLD										
10	ST-01-1533-BH26-ASB(0.2m)	10.11.2022		Soil		1			X										
11	ST-01-1533-BH27-ASB(0.2m)	10.11.2022		Soil		1			X										
	ST-01-1533-BH28-ASB(0.2m)	07.11.2022		Soil		1			HOLD										
12	ST-01-1533-BH29-ASB(0.2m)	10.11.2022		Soil		1			X										
	ST-01-1533-BH30-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
13	ST-01-1533-BH31-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH32-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
14	ST-01-1533-BH33-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH34-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
15	ST-01-1533-BH37-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH38-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
	ST-01-1533-BH39-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
16	ST-01-1533-BH40-ASB(0.2m)	07.11.2022		Soil		1			X										
	ST-01-1533-BH40-ASB(0.5m)	07.11.2022		Soil		1			HOLD										
	ST-01-1533-BH40-ASB(1.4m)	07.11.2022		Soil		1			HOLD										
	ST-01-1533-BH41-ASB(0.5m)	07.11.2022		Soil		1			HOLD										
9	ST-01-1533-BH41-ASB(0.2m)	07.11.2022		Soil		1			HOLD										
17	ST-01-1533-BH42-ASB(0.2m)	07.11.2022		Soil		1			X										
	ST-01-1533-BH42-ASB(0.5m)	07.11.2022		Soil		1			HOLD										
	ST-01-1533-BH42-ASB(1.2m)	07.11.2022		Soil		1			HOLD										
18	ST-01-1533-BH43-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH44-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
19	ST-01-1533-BH45-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH46-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
20	ST-01-1533-BH47-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH48-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
21	ST-01-1533-BH49-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH50-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
22	ST-01-1533-BH51-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH52-ASB(0.2m)	08.11.2022		Soil		1			HOLD										

23	ST-01-1533-BH53ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH54-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
24	ST-01-1533-BH55-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH56-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
25	ST-01-1533-BH57-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH58-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
26	ST-01-1533-BH59-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH60-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
27	ST-01-1533-BH61-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH62-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
28	ST-01-1533-BH63-ASB(0.2m)	7.11.2022		Soil		1			X										
	ST-01-1533-BH64-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
29	ST-01-1533-BH65-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH66-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
30	ST-01-1533-BH67-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH68-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
31	ST-01-1533-BH69-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH70-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
32	ST-01-1533-BH71-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH72-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
33	ST-01-1533-BH74-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH75-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
34	ST-01-1533-BH76-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH77-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
35	ST-01-1533-BH78-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH79-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
36	ST-01-1533-BH80-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH81-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
37	ST-01-1533-BH82-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH83-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
38	ST-01-1533-BH84-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH85-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
39	ST-01-1533-BH86-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH87-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
40	ST-01-1533-BH88-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH89-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
41	ST-01-1533-BH90-ASB(0.2m)	09.11.2022		Soil		1			X										
	ST-01-1533-BH91-ASB(0.2m)	09.11.2022		Soil		1			HOLD										
42	ST-01-1533-BH93-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH95-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
43	ST-01-1533-BH96-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-BH97-ASB(0.2m)	08.11.2022		Soil		1			HOLD										
44	ST-01-1533-BH98-ASB(0.2m)	08.11.2022		Soil		1			X										
	ST-01-1533-WD1	10.11.2022		Water	4			X											
	ST-01-1533-WD2	10.11.2022		Water	4			X											
	ST-01-1533-RIN	10.11.2022		Rinsate	4			X											
	TRIP BLANK				1			X											

	TRIP SPIKE				1			X											

Sampled By:	Sirish Baniya			Date:	07/11/2022 - 10/11/2022
Relinquished By:	Sirish Baniya			Date:	11/11/2022 Time: 3pm

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Kannan Kaliappan
Client	K2 CONSULTING GROUP
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Project	**ST-01-1533 (515 Crookwell Road, Kingsdal**
Order Number	**ST-01-1533**
Samples	101

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
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Email	au.environmental.sydney@sgs.com
SGS Reference	**SE239041C R0**
Date Received	12/1/2023
Date Reported	20/1/2023

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Shane MCDERMOTT
Inorganic/Metals Chemist

Hexavalent Chromium in Soil UV/Vis [AN075/AN201] Tested: 16/1/2023

PARAMETER	UOM	LOR	BH12(0.7m) SOIL - 7/11/2022 SE239041C.002	BH18(0.2m) SOIL - 7/11/2022 SE239041C.008	BH22(0.2m) SOIL - 7/11/2022 SE239041C.012	BH23(0.2m) SOIL - 10/11/2022 SE239041C.013	BH24(0.2m) SOIL - 7/11/2022 SE239041C.014
Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	BH25(0.2m) SOIL - 7/11/2022 SE239041C.015	BH29(0.5m) SOIL - 10/11/2022 SE239041C.019	BH30(0.2m) SOIL - 9/11/2022 SE239041C.020	BH32(0.2m) SOIL - 8/11/2022 SE239041C.022	BH38(0.2m) SOIL - 9/11/2022 SE239041C.028
Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	BH43(0.2m) SOIL - 9/11/2022 SE239041C.033	BH45(0.2m) SOIL - 9/11/2022 SE239041C.035	BH46(0.2m) SOIL - 9/11/2022 SE239041C.036	BH51(0.2m) SOIL - 8/11/2022 SE239041C.041	BH55(0.7m) SOIL - 9/11/2022 SE239041C.045
Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	BH61(0.5m) SOIL - 9/11/2022 SE239041C.051	BH63(0.2m) SOIL - 7/11/2022 SE239041C.053	BH67(0.2m) SOIL - 8/11/2022 SE239041C.057	BH71(0.2m) SOIL - 8/11/2022 SE239041C.061	BH75(1.0m) SOIL - 8/11/2022 SE239041C.065
Hexavalent Chromium, Cr6+	mg/kg	0.5	**0.5**	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	BH78(0.2m) SOIL - 9/11/2022 SE239041C.068	BH82(0.2m) SOIL - 9/11/2022 SE239041C.072	BH85(0.2m) SOIL - 9/11/2022 SE239041C.075	BH89(0.2m) SOIL - 9/11/2022 SE239041C.079	BH93(0.2m) SOIL - 8/11/2022 SE239041C.083
Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	**1.3**	<0.5	**1.2**	<0.5

PARAMETER	UOM	LOR	BH94(0.2m) SOIL - 8/11/2022 SE239041C.084	BH98(0.2m) SOIL - 8/11/2022 SE239041C.088
Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5

Hexavalent Chromium in water ASLP DI by Discrete Analyser [AN283] Tested: 18/1/2023

PARAMETER	UOM	LOR	BH13(0.2m) SOIL - 7/11/2022 SE239041C.003	BH14(0.2m) SOIL - 7/11/2022 SE239041C.004	BH21(0.5m) SOIL - 7/11/2022 SE239041C.011	BH33(0.2m) SOIL - 8/11/2022 SE239041C.023	BH40(0.2m) SOIL - 7/11/2022 SE239041C.030
Hexavalent Chromium, Cr6+	mg/L	0.004	<0.004	<0.004	<0.004	<0.004	<0.004

PARAMETER	UOM	LOR	BH57(0.2m) SOIL - 9/11/2022 SE239041C.047	BH59(0.2m) SOIL - 9/11/2022 SE239041C.049	BH60(0.2m) SOIL - 9/11/2022 SE239041C.050	BH62(0.2m) SOIL - 9/11/2022 SE239041C.052	BH64(0.2m) SOIL - 8/11/2022 SE239041C.054
Hexavalent Chromium, Cr6+	mg/L	0.004	<0.004	<0.004	<0.004	<0.004	<0.004

METHOD	METHODOLOGY SUMMARY
AN007/AS4439.3	Contaminants of interest in a waste material are leached out of the waste with a selected leaching solution under controlled conditions. The ratio of sample to extraction fluid is 100 g to 2 L (1 to 20 by mass). The concentration of each contaminant of interest is determined in the leachate by appropriate methods after separation from the sample by filtering. Based on AS4439.3.
AN075	This method uses an alkaline digestion to solubilise both water-soluble and water-insoluble forms of hexavalent chromium in solids. The solution is then pH adjusted and the hexavalent chromium concentration in solution determined colourimetrically.
AN201	Cr6+ is determined colourimetrically by reaction with diphenylcarbazide in acid solution. A red-violet colour of unknown composition is produced.
AN283	Hexavalent Chromium via DA: Soluble hexavalent chromium forms a red/violet colour with diphenylcarbazide in acidic solution. This procedure is very sensitive and nearly specific for Cr6+. If total chromium is also measured the trivalent form of chromium Cr3+ can be calculated from the difference (Total Cr - Cr6+). Reference APHA3500CrB.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE239041C R0

CLIENT DETAILS

Contact	Kannan Kaliappan
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Project	**ST-01-1533 (515 Crookwell Road, Kingsdal**
Order Number	**ST-01-1533**
Samples	101

LABORATORY DETAILS

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SGS Reference	**SE239041C R0**
Date Received	12 Jan 2023
Date Reported	20 Jan 2023

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	Hexavalent Chromium in Soil UV/Vis	27 items
	Hexavalent Chromium in water ASLP DI by Discrete Analyser	10 items
Analysis Date	Hexavalent Chromium in water ASLP DI by Discrete Analyser	10 items

SAMPLE SUMMARY

Sample counts by matrix	37 Soil	Type of documentation received	COC
Date documentation received	12/1/2023@8:51am	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	14.6°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE239041C R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH12(0.7m)	SE239041C.002	LB268863	07 Nov 2022	12 Jan 2023	05 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH18(0.2m)	SE239041C.008	LB268863	07 Nov 2022	12 Jan 2023	05 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH22(0.2m)	SE239041C.012	LB268863	07 Nov 2022	12 Jan 2023	05 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH23(0.2m)	SE239041C.013	LB268863	10 Nov 2022	12 Jan 2023	08 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH24(0.2m)	SE239041C.014	LB268863	07 Nov 2022	12 Jan 2023	05 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH25(0.2m)	SE239041C.015	LB268863	07 Nov 2022	12 Jan 2023	05 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH29(0.5m)	SE239041C.019	LB268863	10 Nov 2022	12 Jan 2023	08 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH30(0.2m)	SE239041C.020	LB268863	09 Nov 2022	12 Jan 2023	07 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH32(0.2m)	SE239041C.022	LB268863	08 Nov 2022	12 Jan 2023	06 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH38(0.2m)	SE239041C.028	LB268863	09 Nov 2022	12 Jan 2023	07 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH43(0.2m)	SE239041C.033	LB268863	09 Nov 2022	12 Jan 2023	07 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH45(0.2m)	SE239041C.035	LB268863	09 Nov 2022	12 Jan 2023	07 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH46(0.2m)	SE239041C.036	LB268863	09 Nov 2022	12 Jan 2023	07 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH51(0.2m)	SE239041C.041	LB268863	08 Nov 2022	12 Jan 2023	06 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH55(0.7m)	SE239041C.045	LB268863	09 Nov 2022	12 Jan 2023	07 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH61(0.5m)	SE239041C.051	LB268863	09 Nov 2022	12 Jan 2023	07 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH63(0.2m)	SE239041C.053	LB268863	07 Nov 2022	12 Jan 2023	05 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH67(0.2m)	SE239041C.057	LB268863	08 Nov 2022	12 Jan 2023	06 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH71(0.2m)	SE239041C.061	LB268863	08 Nov 2022	12 Jan 2023	06 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH75(1.0m)	SE239041C.065	LB268863	08 Nov 2022	12 Jan 2023	06 Dec 2022	16 Jan 2023†	23 Jan 2023	19 Jan 2023
BH78(0.2m)	SE239041C.068	LB268967	09 Nov 2022	12 Jan 2023	07 Dec 2022	18 Jan 2023†	25 Jan 2023	19 Jan 2023
BH82(0.2m)	SE239041C.072	LB268967	09 Nov 2022	12 Jan 2023	07 Dec 2022	18 Jan 2023†	25 Jan 2023	19 Jan 2023
BH85(0.2m)	SE239041C.075	LB268967	09 Nov 2022	12 Jan 2023	07 Dec 2022	18 Jan 2023†	25 Jan 2023	19 Jan 2023
BH89(0.2m)	SE239041C.079	LB268967	09 Nov 2022	12 Jan 2023	07 Dec 2022	18 Jan 2023†	25 Jan 2023	19 Jan 2023
BH93(0.2m)	SE239041C.083	LB268967	08 Nov 2022	12 Jan 2023	06 Dec 2022	18 Jan 2023†	25 Jan 2023	19 Jan 2023
BH94(0.2m)	SE239041C.084	LB268967	08 Nov 2022	12 Jan 2023	06 Dec 2022	18 Jan 2023†	25 Jan 2023	19 Jan 2023
BH98(0.2m)	SE239041C.088	LB268967	08 Nov 2022	12 Jan 2023	06 Dec 2022	18 Jan 2023†	25 Jan 2023	19 Jan 2023

Hexavalent Chromium in water ASLP DI by Discrete Analyser — **Method: ME-(AU)-[ENV]AN283**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH13(0.2m)	SE239041C.003	LB269082	07 Nov 2022	12 Jan 2023	12 Dec 2022	18 Jan 2023†	12 Dec 2022	18 Jan 2023†
BH14(0.2m)	SE239041C.004	LB269082	07 Nov 2022	12 Jan 2023	12 Dec 2022	18 Jan 2023†	12 Dec 2022	18 Jan 2023†
BH21(0.5m)	SE239041C.011	LB269082	07 Nov 2022	12 Jan 2023	12 Dec 2022	18 Jan 2023†	12 Dec 2022	18 Jan 2023†
BH33(0.2m)	SE239041C.023	LB269082	08 Nov 2022	12 Jan 2023	13 Dec 2022	18 Jan 2023†	13 Dec 2022	18 Jan 2023†
BH40(0.2m)	SE239041C.030	LB269082	07 Nov 2022	12 Jan 2023	12 Dec 2022	18 Jan 2023†	12 Dec 2022	18 Jan 2023†
BH57(0.2m)	SE239041C.047	LB269082	09 Nov 2022	12 Jan 2023	14 Dec 2022	18 Jan 2023†	14 Dec 2022	18 Jan 2023†
BH59(0.2m)	SE239041C.049	LB269082	09 Nov 2022	12 Jan 2023	14 Dec 2022	18 Jan 2023†	14 Dec 2022	18 Jan 2023†
BH60(0.2m)	SE239041C.050	LB269082	09 Nov 2022	12 Jan 2023	14 Dec 2022	18 Jan 2023†	14 Dec 2022	18 Jan 2023†
BH62(0.2m)	SE239041C.052	LB269082	09 Nov 2022	12 Jan 2023	14 Dec 2022	18 Jan 2023†	14 Dec 2022	18 Jan 2023†
BH64(0.2m)	SE239041C.054	LB269082	08 Nov 2022	12 Jan 2023	13 Dec 2022	18 Jan 2023†	13 Dec 2022	18 Jan 2023†

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Sample Number	Parameter	Units	LOR	Result
LB268863.001	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5
LB268967.001	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041C.028	LB268863.014	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	150	0
SE239041C.065	LB268863.025	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	200	0
SE241523.003	LB268967.014	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	200	0

Hexavalent Chromium in water ASLP DI by Discrete Analyser — **Method: ME-(AU)-[ENV]AN283**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041C.054	LB269082.014	Hexavalent Chromium, Cr6+	mg/L	0.004	<0.004	<0.004	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268863.002	Hexavalent Chromium, Cr6+	mg/kg	0.5	18	20	70 - 130	91
LB268967.002	Hexavalent Chromium, Cr6+	mg/kg	0.5	19	20	70 - 130	97

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spikes were required for this job.

MATRIX SPIKE DUPLICATES

SE239041C R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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source: SE_Autoscan.pdf page: 1 SGS Ref: SE239041C_COC

E-MAILED
12/1/23 8:57a

SGS

LIMS No: _____

Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 16, 33 Maddox Street, Alexandria, NSW 2015 Ph: +61 2 8594 0400 Fax: +61 2 8594 0499 Email: au.samplereceipt.sydney@sgs.com

Laboratory Section

Received Date: _____ Received By: _____ Cooling Method: ☐ Ice ☐ Icepack ☐ None Samples intact: ☐ Yes ☐ No

Logged-in Date: _____ Time of Receipt: _____ Cooler Sealed: ☐ Yes ☐ No ☐ N/A Temperature: ☐ Ambient ☐ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

INVOICE TO:

Name: Kannan Kaliappan

Company: K2 Consulting Group

Address: Suite 222 (Building B)

20 Lexington Drive, Bella Vista 2153

Email: kannan@k2consultinggroup.com.au; admin@k2consultinggroup.com.au

Phone: 449669559 Fax:

Quote #: _____

Attached Parameter List: ☐ Yes ☐ No

Replacement Sample Containers Required: ☐ Yes ☐ No

Results Required By: _____ Urgent TA requires lab approval

Notes:

Client information | PO No.: | Project No.: ST-01-1533 (515 Crookwell Road, Kingsdale NSW)

Company Name:

Contact Name:

Address:

Phone Number: | After Hours Phone Number:

Fax Number: | Email:

Note: Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

Indicate results format (please check one): Email ☐ Fax ☐

SAMPLE INFORMATION

Lab Sample ID	Sample Identifier	Date Sampled	Time	Matrix: Soil Water Other	# of Bottles	Analysis Requested: Chromium VI (mg/kg)	Analysis Requested: ASLP (Chromium III and Chromium VI)
2	ST-01-1533-BH12(0.7m)	7/11/2022		SOIL	1	X	
8	ST-01-1533-BH18(0.2m)	7/11/2022		SOIL	1	X	
12	ST-01-1533-BH22(0.2m)	7/11/2022		SOIL	1	X	
13	ST-01-1533-BH23(0.2m)	7/11/2022		SOIL	1	X	
14	ST-01-1533-BH24(0.2m)	7/11/2022		SOIL	1	X	
15	ST-01-1533-BH25(0.2m)	7/11/2022		SOIL	1	X	
19	ST-01-1533-BH29(0.5m)	10/11/2022		SOIL	1	X	
20	ST-01-1533-BH30(0.2m)	9/11/2022		SOIL	1	X	
22	ST-01-1533-BH32(0.2m)	8/11/2022		SOIL	1	X	
28	ST-01-1533-BH38(0.2m)	9/11/2022		SOIL	1	X	
33	ST-01-1533-BH43(0.2m)	9/11/2022		SOIL	1	X	
35	ST-01-1533-BH45(0.2m)	9/11/2022		SOIL	1	X	
36	ST-01-1533-BH46(0.2m)	9/11/2022		SOIL	1	X	
41	ST-01-1533-BH51(0.2m)	8/11/2022		SOIL	1	X	
45	ST-01-1533-BH55(0.7m)	9/11/2022		SOIL	1	X	
51	ST-01-1533-BH61(0.5m)	9/11/2022		SOIL	1	X	
53	ST-01-1533-BH63(0.2m)	8/11/2022		SOIL	1	X	
57	ST-01-1533-BH67(0.2m)	8/11/2022		SOIL	1	X	
61	ST-01-1533-BH71(0.2m)	8/11/2022		SOIL	1	X	
65	ST-01-1533-BH75(1.0m)	8/11/2022		SOIL	1	X	
68	ST-01-1533-BH78(0.2m)	9/11/2022		SOIL	1	X	
72	ST-01-1533-BH82(0.2m)	9/11/2022		SOIL	1	X	
75	ST-01-1533-BH85(0.2m)	9/11/2022		SOIL	1	X	
79	ST-01-1533-BH89(0.2m)	9/11/2022		SOIL	1	X	
83	ST-01-1533-BH93(0.2m)	8/11/2022		SOIL	1	X	
84	ST-01-1533-BH94(0.2m)	8/11/2022		SOIL	1	X	
88	ST-01-1533-BH98(0.2m)	8/11/2022		SOIL	1	X	
3	ST-01-1533-BH13(0.2m)	7/11/2022		SOIL	1		X
4	ST-01-1533-BH14(0.2m)	7/11/2022		SOIL	1		X
11	ST-01-1533-BH21(0.5m)	7/11/2022		SOIL	1		X
23	ST-01-1533-BH33(0.2m)	8/11/2022		SOIL	1		X
30	ST-01-1533-BH40(0.2m)	7/11/2022		SOIL	1		X
47	ST-01-1533-BH57(0.2m)	9/11/2022		SOIL	1		X
49	ST-01-1533-BH59(0.2m)	9/11/2022		SOIL	1		X
50	ST-01-1533-BH60(0.2m)	9/11/2022		SOIL	1		X
52	ST-01-1533-BH62(0.2m)	9/11/2022		SOIL	1		X
54	ST-01-1533-BH64(0.2m)	8/11/2022		SOIL	1		X

Sampled By: Sirish Baniya Date: 7/11/2022 - 10/11/2022

Relinquished By: SB Date: 11/11/2022 Time:

SGS EHS Alexandria Laboratory

SE239041C COC

Received: 12 – Jan – 2023

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Kannan Kaliappan
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Project	**ST-01-1533 (515 Crookwell Road, Kingsdal**
Order Number	**ST-01-1533**
Samples	101

LABORATORY DETAILS

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Laboratory	SGS Alexandria Environmental
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SGS Reference	**SE239041B R0**
Date Received	14/12/2022
Date Reported	20/12/2022

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Huong CRAWFORD
Production Manager

Shane MCDERMOTT
Inorganic/Metals Chemist

Hexavalent Chromium in Soil UV/Vis [AN075/AN201] Tested: 16/12/2022

PARAMETER	UOM	LOR	BH13(0.2m) SOIL - 7/11/2022 SE239041B.003	BH14(0.2m) SOIL - 7/11/2022 SE239041B.004	BH15(0.5m) SOIL - 7/11/2022 SE239041B.005	BH16(0.2m) SOIL - 7/11/2022 SE239041B.006	BH19(0.2m) SOIL - 7/11/2022 SE239041B.009
Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	BH21(0.5m) SOIL - 7/11/2022 SE239041B.011	BH27(0.2m) SOIL - 10/11/2022 SE239041B.017	BH28(0.4m) SOIL - 7/11/2022 SE239041B.018	BH31(0.2m) SOIL - 9/11/2022 SE239041B.021	BH33(0.2m) SOIL - 8/11/2022 SE239041B.023
Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	BH40(0.2m) SOIL - 7/11/2022 SE239041B.030	BH41(0.5m) SOIL - 7/11/2022 SE239041B.031	BH54(0.2m) SOIL - 9/11/2022 SE239041B.044	BH57(0.2m) SOIL - 9/11/2022 SE239041B.047	BH58(0.2m) SOIL - 9/11/2022 SE239041B.048
Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	BH59(0.2m) SOIL - 9/11/2022 SE239041B.049	BH60(0.2m) SOIL - 9/11/2022 SE239041B.050	BH62(0.2m) SOIL - 9/11/2022 SE239041B.052	BH64(0.2m) SOIL - 8/11/2022 SE239041B.054	BH68(0.6m) SOIL - 8/11/2022 SE239041B.058
Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PARAMETER	UOM	LOR	BH84(0.1m) SOIL - 9/11/2022 SE239041B.074	BH91(1.0m) SOIL - 9/11/2022 SE239041B.081
Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5

METHOD	METHODOLOGY SUMMARY
AN075	This method uses an alkaline digestion to solubilise both water-soluble and water-insoluble forms of hexavalent chromium in solids. The solution is then pH adjusted and the hexavalent chromium concentration in solution determined colourimetrically.
AN201	Cr6+ is determined colourimetrically by reaction with diphenylcarbazide in acid solution. A red-violet colour of unknown composition is produced.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE239041B R0

CLIENT DETAILS

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Email	kannan@k2consultinggroup.com.au
Project	**ST-01-1533 (515 Crookwell Road, Kingsdal**
Order Number	**ST-01-1533**
Samples	101

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE239041B R0**
Date Received	14 Dec 2022
Date Reported	20 Dec 2022

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	Hexavalent Chromium in Soil UV/Vis	22 items

SAMPLE SUMMARY

Sample counts by matrix	22 Soil	Type of documentation received	COC
Date documentation received	14/12/2022@7:00pr	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	14.6°C
Sample container provider	SGS	Turnaround time requested	Three Days
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice Bricks	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE239041B R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
BH13(0.2m)	SE239041B.003	LB267170	07 Nov 2022	14 Dec 2022	05 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH14(0.2m)	SE239041B.004	LB267170	07 Nov 2022	14 Dec 2022	05 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH15(0.5m)	SE239041B.005	LB267170	07 Nov 2022	14 Dec 2022	05 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH16(0.2m)	SE239041B.006	LB267170	07 Nov 2022	14 Dec 2022	05 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH19(0.2m)	SE239041B.009	LB267170	07 Nov 2022	14 Dec 2022	05 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH21(0.5m)	SE239041B.011	LB267170	07 Nov 2022	14 Dec 2022	05 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH27(0.2m)	SE239041B.017	LB267170	10 Nov 2022	14 Dec 2022	08 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH28(0.4m)	SE239041B.018	LB267170	07 Nov 2022	14 Dec 2022	05 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH31(0.2m)	SE239041B.021	LB267170	09 Nov 2022	14 Dec 2022	07 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH33(0.2m)	SE239041B.023	LB267170	08 Nov 2022	14 Dec 2022	06 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH40(0.2m)	SE239041B.030	LB267170	07 Nov 2022	14 Dec 2022	05 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH41(0.5m)	SE239041B.031	LB267170	07 Nov 2022	14 Dec 2022	05 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH54(0.2m)	SE239041B.044	LB267170	09 Nov 2022	14 Dec 2022	07 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH57(0.2m)	SE239041B.047	LB267170	09 Nov 2022	14 Dec 2022	07 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH58(0.2m)	SE239041B.048	LB267170	09 Nov 2022	14 Dec 2022	07 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH59(0.2m)	SE239041B.049	LB267170	09 Nov 2022	14 Dec 2022	07 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH60(0.2m)	SE239041B.050	LB267170	09 Nov 2022	14 Dec 2022	07 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH62(0.2m)	SE239041B.052	LB267170	09 Nov 2022	14 Dec 2022	07 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH64(0.2m)	SE239041B.054	LB267170	08 Nov 2022	14 Dec 2022	06 Dec 2022	16 Dec 2022†	23 Dec 2022	20 Dec 2022
BH68(0.6m)	SE239041B.058	LB267238	08 Nov 2022	14 Dec 2022	06 Dec 2022	19 Dec 2022†	26 Dec 2022	20 Dec 2022
BH84(0.1m)	SE239041B.074	LB267238	09 Nov 2022	14 Dec 2022	07 Dec 2022	19 Dec 2022†	26 Dec 2022	20 Dec 2022
BH91(1.0m)	SE239041B.081	LB267238	09 Nov 2022	14 Dec 2022	07 Dec 2022	19 Dec 2022†	26 Dec 2022	20 Dec 2022

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Sample Number	Parameter	Units	LOR	Result
LB267170.001	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5
LB267238.001	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239041B.023	LB267170.014	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	200	0
SE239041B.054	LB267170.024	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	200	0
SE239041B.081	LB267238.008	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5	<0.5	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB267170.002	Hexavalent Chromium, Cr6+	mg/kg	0.5	18	20	70 - 130	88
LB267238.002	Hexavalent Chromium, Cr6+	mg/kg	0.5	18	20	70 - 130	92

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spikes were required for this job.

MATRIX SPIKE DUPLICATES

SE239041B R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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source: SE_Autoscan.pdf page: 1 SGS Ref: SE239041B_COC

E-MAILED
14/12 @ 7pm.

SGS

LIMS No: _____

Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 16, 33 Maddox Street, Alexandria, NSW 2015 Ph: +61 2 8594 0400 Fax: +61 2 8594 0499 Email: au.samplereceipt.sydney@sgs.com

Laboratory Section

Received Date: 14/12/22 | Received By: [illegible] | Cooling Method: ☐ Ice ☐ Icepack ☐ None | Samples intact: ☐ Yes ☐ No

Logged-in Date: 14/12/22 ✓ | Time of Receipt: 9pm | Cooler Sealed: ☐ Yes ☐ No ☐ N/A | Temperature: ☐ Ambient ☐ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

INVOICE TO:

Name: K2 Consulting Group
Company: K2 Consulting Group
Address: Suite 222 (Building B)
20 Lexington Drive, Bella Vista NSW 2153
Email: kannan@k2consultinggroup.com.au, admin@k2consultinggroup.com.au
Phone: 449669559 Fax:

Quote #:
Attached Parameter List: ☐ Yes ☐ No
Replacement Sample Containers Required: ☐ Yes ☐ No
Results Required By: 3 day TAT Urgent TA requires lab approval
Notes:

Client information | PO No.: | Project No.: ST-01-1533 (515 Crookwell Road, Kingsdale)

Company Name: K2 Consulting Group
Contact Name: Kannan Kaliappan
Address: Suite 222 (Building B), 20 Lexington Drive, Bella Vista NSW 2153
Phone Number: 449669559 | **After Hours Phone Number:**
Fax Number: | **Email:** kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

Note: Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

Indicate results format (please check one): Email ☐ Fax ☐

SAMPLE INFORMATION

Lab Sample ID	Sample Identifier	Date Sampled	Time	Matrix: Soil Water Other	# of Bottles	Analysis Requested: Chromium VI	
3	ST-01-1533-BH13 (0.2m)	7/11/2022		Soil	1	X	
4	ST-01-1533-BH14 (0.2m)	7/11/2022		Soil	1	X	
5	ST-01-1533-BH15 (0.5m)	7/11/2022		Soil	1	X	
6	ST-01-1533-BH16 (0.2m)	7/11/2022		Soil	1	X	
9	ST-01-1533-BH19 (0.2m)	7/11/2022		Soil	1	X	
11	ST-01-1533-BH21 (0.5m)	7/11/2022		Soil	1	X	
17	ST-01-1533-BH27 (0.2m)	10/11/2022		Soil	1	X	
18	ST-01-1533-BH28 (0.4m)	7/11/2022		Soil	1	X	
21	ST-01-1533-BH31 (0.2m)	9/11/2022		Soil	1	X	
23	ST-01-1533-BH33 (0.2m)	8/11/2022		Soil	1	X	
30	ST-01-1533-BH40 (0.2m)	7/11/2022		Soil	1	X	
31	ST-01-1533-BH41 (0.5m)	7/11/2022		Soil	1	X	
44	ST-01-1533-BH54 (0.2m)	9/11/2022		Soil	1	X	
47	ST-01-1533-BH57 (0.2m)	9/11/2022		Soil	1	X	
48	ST-01-1533-BH58 (0.2m)	9/11/2022		Soil	1	X	
49	ST-01-1533-BH59 (0.2m)	9/11/2022		Soil	1	X	
50	ST-01-1533-BH60 (0.2m)	9/11/2022		Soil	1	X	
52	ST-01-1533-BH62 (0.2m)	9/11/2022		Soil	1	X	
54	ST-01-1533-BH64 (0.2m)	8/11/2022		Soil	1	X	
58	ST-01-1533-BH68 (0.6m)	8/11/2022		Soil	1	X	
74	ST-01-1533-BH84 (0.1m)	8/11/2022		Soil	1	X	
81	ST-01-1533-BH91 (1.0m)	9/11/2022		Soil	1	X	

SGS EHS Alexandria Laboratory

SE239041B COC
Received: 14 – Dec – 2022

Sampled By: Sirish Baniya **Date:** 7th to 10th November 2022

Relinquished By: Sirish Baniya **Date:** 11/11/2022 **Time:** 3pm

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Kannan Kaliappan	Manager	Huong Crawford
Client	K2 CONSULTING GROUP	Laboratory	SGS Alexandria Environmental
Address	SUITE 222, 20B LEXINGTON DRIVE BELLA VISTA NSW 2153	Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	61 8 00 523 000	Telephone	+61 2 8594 0400
Facsimile	(Not specified)	Facsimile	+61 2 8594 0499
Email	kannan@k2consultinggroup.com.au	Email	au.environmental.sydney@sgs.com
Project	**ST-01-1533(515 Crookwell Road, Kingsdale**	SGS Reference	**SE241552B R0**
Order Number	**ST-01-1533**	Date Received	18 Jan 2023
Samples	7	Date Reported	20 Jan 2023

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE241552B.001 Water 10 Jan 2023 ST-01-1533-GW4	SE241552B.002 Water 10 Jan 2023 ST-01-1533-GW5	SE241552B.003 Water 10 Jan 2023 ST-01-1533-WD1	SE241552B.004 Water 10 Jan 2023 ST-01-1533-WD2
Hexavalent Chromium in water by Discrete Analyser Method: AN283 Tested: 19/1/2023							
Hexavalent Chromium, Cr6+	mg/L	0.004		<0.004	**0.014**	<0.004	<0.004
Hexavalent Chromium in Soil UV/Vis Method: AN075/AN201 Tested: 20/1/2023							
Hexavalent Chromium, Cr6+	mg/kg	0.5		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE241552B.005 Water 10 Jan 2023 Trip Spike	SE241552B.006 Water 10 Jan 2023 Trip Blank	SE241552B.007 Soil 10 Jan 2023 ST-01-1533-WD1(Sediment)
Hexavalent Chromium in water by Discrete Analyser Method: AN283 Tested: 20/1/2023					
Hexavalent Chromium, Cr6+	mg/L	0.004	-	-	-
Hexavalent Chromium in Soil UV/Vis Method: AN075/AN201 Tested: 20/1/2023					
Hexavalent Chromium, Cr6+	mg/kg	0.5	-	-	**0.7**

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Hexavalent Chromium in Soil UV/Vis **Method: ME-(AU)-[ENV]AN075/AN201**

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Hexavalent Chromium, Cr6+	LB269309	mg/kg	0.5	<0.5	29%	96%

Hexavalent Chromium in water by Discrete Analyser **Method: ME-(AU)-[ENV]AN283**

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Hexavalent Chromium, Cr6+	LB269177	mg/L	0.004	<0.004	0%	98%	101%

METHOD	METHODOLOGY SUMMARY
AN075	This method uses an alkaline digestion to solubilise both water-soluble and water-insoluble forms of hexavalent chromium in solids. The solution is then pH adjusted and the hexavalent chromium concentration in solution determined colourimetrically.
AN201	Cr6+ is determined colourimetrically by reaction with diphenylcarbazide in acid solution. A red-violet colour of unknown composition is produced.
AN283	Hexavalent Chromium via DA: Soluble hexavalent chromium forms a red/violet colour with diphenylcarbazide in acidic solution. This procedure is very sensitive and nearly specific for Cr6+. If total chromium is also measured the trivalent form of chromium Cr3+ can be calculated from the difference (Total Cr - Cr6+). Reference APHA3500CrB.

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
		QFL	QC result is below the lower tolerance
**	Indicative data, theoretical holding time exceeded.	-	The sample was not analysed for this analyte
***	Indicates that both * and ** apply.	NVL	Not Validated

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calcuated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE241552B R0

CLIENT DETAILS

Contact	Kannan Kaliappan
Client	K2 CONSULTING GROUP
Address	SUITE 222, 20B LEXINGTON DRIVE BELLA VISTA NSW 2153
Telephone	61 8 00 523 000
Facsimile	(Not specified)
Email	kannan@k2consultinggroup.com.au
Project	**ST-01-1533(515 Crookwell Road, Kingsdale**
Order Number	**ST-01-1533**
Samples	7

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE241552B R0**
Date Received	18 Jan 2023
Date Reported	20 Jan 2023

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Sample counts by matrix	4 Water, 1 Soil	Type of documentation received	COC
Date documentation received	18/1/2023@12:11pn	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	10.0°C
Sample container provider	SGS	Turnaround time requested	Two Days
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE241552B R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Hexavalent Chromium in Soil UV/Vis — Method: ME-(AU)-[ENV]AN075/AN201

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-WD1(Sediment	SE241552B.007	LB269309	10 Jan 2023	18 Jan 2023	07 Feb 2023	20 Jan 2023	27 Jan 2023	20 Jan 2023

Hexavalent Chromium in water by Discrete Analyser — Method: ME-(AU)-[ENV]AN283

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE241552B.001	LB269177	10 Jan 2023	18 Jan 2023	07 Feb 2023	19 Jan 2023	07 Feb 2023	19 Jan 2023
ST-01-1533-GW5	SE241552B.002	LB269177	10 Jan 2023	18 Jan 2023	07 Feb 2023	19 Jan 2023	07 Feb 2023	19 Jan 2023
ST-01-1533-WD1	SE241552B.003	LB269177	10 Jan 2023	18 Jan 2023	07 Feb 2023	19 Jan 2023	07 Feb 2023	19 Jan 2023
ST-01-1533-WD2	SE241552B.004	LB269177	10 Jan 2023	18 Jan 2023	07 Feb 2023	19 Jan 2023	07 Feb 2023	19 Jan 2023

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Hexavalent Chromium in Soil UV/Vis — Method: ME-(AU)-[ENV]AN075/AN201

Sample Number	Parameter	Units	LOR	Result
LB269309.001	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5

Hexavalent Chromium in water by Discrete Analyser — Method: ME-(AU)-[ENV]AN283

Sample Number	Parameter	Units	LOR	Result
LB269177.001	Hexavalent Chromium, Cr6+	mg/L	0.004	<0.004

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552B.007	LB269309.004	Hexavalent Chromium, Cr6+	mg/kg	0.5	0.7	0.5	111	29

Hexavalent Chromium in water by Discrete Analyser — **Method: ME-(AU)-[ENV]AN283**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241824.001	LB269177.009	Hexavalent Chromium, Cr6+	mg/L	0.004	0.001422	0.001311	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Hexavalent Chromium in Soil UV/Vis — Method: ME-(AU)-[ENV]AN075/AN201

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB269309.002	Hexavalent Chromium, Cr6+	mg/kg	0.5	19	20	70 - 130	96

Hexavalent Chromium in water by Discrete Analyser — Method: ME-(AU)-[ENV]AN283

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB269177.002	Hexavalent Chromium, Cr6+	mg/L	0.004	0.049	0.05	80 - 120	98

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Hexavalent Chromium in water by Discrete Analyser — **Method: ME-(AU)-[ENV]AN283**

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241552B.001	LB269177.004	Hexavalent Chromium, Cr6+	mg/L	0.004	0.053	<0.004	0.05	101

MATRIX SPIKE DUPLICATES

SE241552B R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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SGS

LIMS No: _____

Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 16, 33 Maddox Street, Alexandria, NSW 2015 Ph: +61 2 8594 0400 Fax: +61 2 8594 0499 Email: au.samplereceipt.sydney@sgs.com

Laboratory Section

Received Date: 18/1/23 Received By: [illegible] Cooling Method: ☐ Ice ☑ Icepack ☐ None Samples Intact: ☑ Yes ☐ No

Logged-in Date: _____ Time of Receipt: 12.14pm Cooler Sealed: ☐ Yes ☐ No ☐ N/A Temperature: ☐ Ambient ☐ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

INVOICE TO:

Name: K2 Consulting Group

Company: K2 Consulting Group

Address: Suite 222 (Building B)

20 Lexington Drive, Bella Vista NSW 2153

Email: kannan@k2consultinggroup.com.au, admin@k2consultinggroup.com.au

Phone: 449669559 Fax:

Quote #: 292320

Attached Parameter List: ☐ Yes ☐ No

Replacement Sample Containers Required: ☐ Yes ☐ No

Results Required By: 2 Day TAT Urgent TA requires lab approval

Notes: Please provide results by lunchtime Friday (20/01/2023) (Mathew said it can be provided by then)

Client Information	PO No.:	Project No.: ST-01-1533 (515 Crookwell Road, Kingsdale)

Company Name: K2 Consulting Group

Contact Name: Kannan Kaliappan

Address: Suite 222 (Building B), 20 Lexington Drive, Bella Vista NSW 2153

Phone Number: 449669559 **After Hours Phone Number:**

Fax Number: **Email:** kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

Note: Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

Indicate results format (please check one): ☐ Email ☐ Fax

SAMPLE INFORMATION

Lab Sample ID	Sample Identifier	Date Sampled	Lab reference	Matrix: Soil Water Other	# of Bottles	Analysis Requested: Chromium VI
1	ST-01-1533-GW4	10/01/2023	SE241552	Water		X
2	ST-01-1533-GW5	10/01/2023	SE241552	Water		X
3	ST-01-1533-WD1	10/01/2023	SE241552	Water		X
4	ST-01-1533-WD2	10/01/2023	SE241552	Water		X
7	ST-01-1533-WD1 (sediment)	10/01/2023	SE241552	Soil		X

Sampled By: Sirish Baniya **Date:** 10/01/2023

Relinquished By: Sirish Baniya **Date:** 11/01/2023 **Time:** 3pm

SGS EHS Alexandria Laboratory

SE241552B COC

Received: 18 – Jan – 2023

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Kannan Kaliappan	Manager	Huong Crawford
Client	K2 CONSULTING GROUP	Laboratory	SGS Alexandria Environmental
Address	SUITE 222, 20B LEXINGTON DRIVE BELLA VISTA NSW 2153	Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	61 8 00 523 000	Telephone	+61 2 8594 0400
Facsimile	(Not specified)	Facsimile	+61 2 8594 0499
Email	kannan@k2consultinggroup.com.au	Email	au.environmental.sydney@sgs.com
Project	**ST-01-1533(515 Crookwell Road, Kingsdale**	SGS Reference	**SE241552B R0**
Order Number	**ST-01-1533**	Date Received	18 Jan 2023
Samples	7	Date Reported	20 Jan 2023

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE241552B.001 Water 10 Jan 2023 ST-01-1533-GW4	SE241552B.002 Water 10 Jan 2023 ST-01-1533-GW5	SE241552B.003 Water 10 Jan 2023 ST-01-1533-WD1	SE241552B.004 Water 10 Jan 2023 ST-01-1533-WD2
Hexavalent Chromium in water by Discrete Analyser Method: AN283 Tested: 19/1/2023							
Hexavalent Chromium, Cr6+	mg/L	0.004		<0.004	**0.014**	<0.004	<0.004
Hexavalent Chromium in Soil UV/Vis Method: AN075/AN201 Tested: 20/1/2023							
Hexavalent Chromium, Cr6+	mg/kg	0.5		-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE241552B.005 Water 10 Jan 2023 Trip Spike	SE241552B.006 Water 10 Jan 2023 Trip Blank	SE241552B.007 Soil 10 Jan 2023 ST-01-1533-WD1(Sediment)
Hexavalent Chromium in water by Discrete Analyser Method: AN283 Tested: 20/1/2023					
Hexavalent Chromium, Cr6+	mg/L	0.004	-	-	-
Hexavalent Chromium in Soil UV/Vis Method: AN075/AN201 Tested: 20/1/2023					
Hexavalent Chromium, Cr6+	mg/kg	0.5	-	-	**0.7**

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Hexavalent Chromium in Soil UV/Vis **Method: ME-(AU)-[ENV]AN075/AN201**

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
Hexavalent Chromium, Cr6+	LB269309	mg/kg	0.5	<0.5	29%	96%

Hexavalent Chromium in water by Discrete Analyser **Method: ME-(AU)-[ENV]AN283**

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Hexavalent Chromium, Cr6+	LB269177	mg/L	0.004	<0.004	0%	98%	101%

METHOD	METHODOLOGY SUMMARY
AN075	This method uses an alkaline digestion to solubilise both water-soluble and water-insoluble forms of hexavalent chromium in solids. The solution is then pH adjusted and the hexavalent chromium concentration in solution determined colourimetrically.
AN201	Cr6+ is determined colourimetrically by reaction with diphenylcarbazide in acid solution. A red-violet colour of unknown composition is produced.
AN283	Hexavalent Chromium via DA: Soluble hexavalent chromium forms a red/violet colour with diphenylcarbazide in acidic solution. This procedure is very sensitive and nearly specific for Cr6+. If total chromium is also measured the trivalent form of chromium Cr3+ can be calculated from the difference (Total Cr - Cr6+). Reference APHA3500CrB.

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
		QFL	QC result is below the lower tolerance
**	Indicative data, theoretical holding time exceeded.	-	The sample was not analysed for this analyte
***	Indicates that both * and ** apply.	NVL	Not Validated

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calcuated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE241552B R0

CLIENT DETAILS

Contact	Kannan Kaliappan
Client	K2 CONSULTING GROUP
Address	SUITE 222, 20B LEXINGTON DRIVE BELLA VISTA NSW 2153
Telephone	61 8 00 523 000
Facsimile	(Not specified)
Email	kannan@k2consultinggroup.com.au
Project	**ST-01-1533(515 Crookwell Road, Kingsdale**
Order Number	**ST-01-1533**
Samples	7

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE241552B R0**
Date Received	18 Jan 2023
Date Reported	20 Jan 2023

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Sample counts by matrix	4 Water, 1 Soil	Type of documentation received	COC
Date documentation received	18/1/2023@12:11pn	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	10.0°C
Sample container provider	SGS	Turnaround time requested	Two Days
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE241552B R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Hexavalent Chromium in Soil UV/Vis — Method: ME-(AU)-[ENV]AN075/AN201

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-WD1(Sediment	SE241552B.007	LB269309	10 Jan 2023	18 Jan 2023	07 Feb 2023	20 Jan 2023	27 Jan 2023	20 Jan 2023

Hexavalent Chromium in water by Discrete Analyser — Method: ME-(AU)-[ENV]AN283

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE241552B.001	LB269177	10 Jan 2023	18 Jan 2023	07 Feb 2023	19 Jan 2023	07 Feb 2023	19 Jan 2023
ST-01-1533-GW5	SE241552B.002	LB269177	10 Jan 2023	18 Jan 2023	07 Feb 2023	19 Jan 2023	07 Feb 2023	19 Jan 2023
ST-01-1533-WD1	SE241552B.003	LB269177	10 Jan 2023	18 Jan 2023	07 Feb 2023	19 Jan 2023	07 Feb 2023	19 Jan 2023
ST-01-1533-WD2	SE241552B.004	LB269177	10 Jan 2023	18 Jan 2023	07 Feb 2023	19 Jan 2023	07 Feb 2023	19 Jan 2023

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Hexavalent Chromium in Soil UV/Vis — Method: ME-(AU)-[ENV]AN075/AN201

Sample Number	Parameter	Units	LOR	Result
LB269309.001	Hexavalent Chromium, Cr6+	mg/kg	0.5	<0.5

Hexavalent Chromium in water by Discrete Analyser — Method: ME-(AU)-[ENV]AN283

Sample Number	Parameter	Units	LOR	Result
LB269177.001	Hexavalent Chromium, Cr6+	mg/L	0.004	<0.004

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Hexavalent Chromium in Soil UV/Vis — **Method: ME-(AU)-[ENV]AN075/AN201**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552B.007	LB269309.004	Hexavalent Chromium, Cr6+	mg/kg	0.5	0.7	0.5	111	29

Hexavalent Chromium in water by Discrete Analyser — **Method: ME-(AU)-[ENV]AN283**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241824.001	LB269177.009	Hexavalent Chromium, Cr6+	mg/L	0.004	0.001422	0.001311	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Hexavalent Chromium in Soil UV/Vis — Method: ME-(AU)-[ENV]AN075/AN201

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB269309.002	Hexavalent Chromium, Cr6+	mg/kg	0.5	19	20	70 - 130	96

Hexavalent Chromium in water by Discrete Analyser — Method: ME-(AU)-[ENV]AN283

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB269177.002	Hexavalent Chromium, Cr6+	mg/L	0.004	0.049	0.05	80 - 120	98

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Hexavalent Chromium in water by Discrete Analyser — **Method: ME-(AU)-[ENV]AN283**

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241552B.001	LB269177.004	Hexavalent Chromium, Cr6+	mg/L	0.004	0.053	<0.004	0.05	101

MATRIX SPIKE DUPLICATES

SE241552B R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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SGS

LIMS No: _____

Request for Laboratory Services and Chain of Custody Form

SGS Australia, Unit 16, 33 Maddox Street, Alexandria, NSW 2015 Ph: +61 2 8594 0400 Fax: +61 2 8594 0499 Email: au.samplereceipt.sydney@sgs.com

Laboratory Section

Received Date: 18/1/23 Received By: [illegible] Cooling Method: ☐ Ice ☑ Icepack ☐ None Samples Intact: ☑ Yes ☐ No

Logged-in Date: _____ Time of Receipt: 12.14pm Cooler Sealed: ☐ Yes ☐ No ☐ N/A Temperature: ☐ Ambient ☐ Chilled

COD must pay via cheque or credit card before analysis is commenced. AMEX & DINERS cards incur a 5% surcharge

INVOICE TO:

Name: K2 Consulting Group

Company: K2 Consulting Group

Address: Suite 222 (Building B)

20 Lexington Drive, Bella Vista NSW 2153

Email: kannan@k2consultinggroup.com.au, admin@k2consultinggroup.com.au

Phone: 449669559 Fax:

Quote #: 292320

Attached Parameter List: ☐ Yes ☐ No

Replacement Sample Containers Required: ☐ Yes ☐ No

Results Required By: 2 Day TAT Urgent TA requires lab approval

Notes: Please provide results by lunchtime Friday (20/01/2023) (Mathew said it can be provided by then)

Client Information	PO No.:	Project No.: ST-01-1533 (515 Crookwell Road, Kingsdale)

Company Name: K2 Consulting Group

Contact Name: Kannan Kaliappan

Address: Suite 222 (Building B), 20 Lexington Drive, Bella Vista NSW 2153

Phone Number: 449669559 **After Hours Phone Number:**

Fax Number: **Email:** kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

Note: Results will be sent via email to an unlimited number of addresses for no additional fee. In the absence of email, fax is available upon request.

Indicate results format (please check one): ☐ Email ☐ Fax

SAMPLE INFORMATION

Lab Sample ID	Sample Identifier	Date Sampled	Lab reference	Matrix: Soil Water Other	# of Bottles	Analysis Requested: Chromium VI
1	ST-01-1533-GW4	10/01/2023	SE241552	Water		X
2	ST-01-1533-GW5	10/01/2023	SE241552	Water		X
3	ST-01-1533-WD1	10/01/2023	SE241552	Water		X
4	ST-01-1533-WD2	10/01/2023	SE241552	Water		X
7	ST-01-1533-WD1 (sediment)	10/01/2023	SE241552	Soil		X

Sampled By: Sirish Baniya **Date:** 10/01/2023

Relinquished By: Sirish Baniya **Date:** 11/01/2023 **Time:** 3pm

SGS EHS Alexandria Laboratory

SE241552B COC

Received: 18 – Jan – 2023

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Kannan Kaliappan
Client	K2 CONSULTING GROUP
Address	SUITE 222, 20B LEXINGTON DRIVE BELLA VISTA NSW 2153
Telephone	61 8 00 523 000
Facsimile	(Not specified)
Email	kannan@k2consultinggroup.com.au
Project	**ST-01-1533 (515 Crookwell Road, Kingsdal**
Order Number	**ST-01-1533**
Samples	101

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE239041A R0**
Date Received	28/11/2022
Date Reported	6/12/2022

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

% Clay subcontracted to SGS Cairns, 2/58 Comport St, Portsmith QLD 4870, NATA Accreditation Number: 2562, Site Number: 3146. Report No. CE163216.

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Shane MCDERMOTT
Inorganic/Metals Chemist

pH in soil (1:5) [AN101] Tested: 5/12/2022

PARAMETER	UOM	LOR	ST-01-1533-BH19(0.(m) SOIL - 7/11/2022 SE239041A.100	ST-01-1533-BH74(0.5 m) SOIL - 8/11/2022 SE239041A.101
pH	pH Units	0.1	**9.0**	**6.0**

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 5/12/2022

PARAMETER	UOM	LOR	ST-01-1533-BH19(0.(m) SOIL - 7/11/2022 SE239041A.100	ST-01-1533-BH74(0.5 m) SOIL - 8/11/2022 SE239041A.101
Exchangeable Calcium, Ca	mg/kg	2	**1400**	**560**
Exchangeable Calcium, Ca	meq/100g	0.01	**7.1**	**2.8**
Exchangeable Calcium Percentage*	%	0.1	**57.7**	**30.0**
Exchangeable Potassium, K	mg/kg	2	**17**	**130**
Exchangeable Potassium, K	meq/100g	0.01	**0.04**	**0.33**
Exchangeable Potassium Percentage*	%	0.1	**0.4**	**3.6**
Exchangeable Magnesium, Mg	mg/kg	2	**600**	**700**
Exchangeable Magnesium, Mg	meq/100g	0.02	**4.9**	**5.8**
Exchangeable Magnesium Percentage*	%	0.1	**40.0**	**62.5**
Exchangeable Sodium, Na	mg/kg	2	**55**	**84**
Exchangeable Sodium, Na	meq/100g	0.01	**0.24**	**0.36**
Exchangeable Sodium Percentage*	%	0.1	**2.0**	**3.9**
Cation Exchange Capacity	meq/100g	0.02	**12**	**9.2**

Moisture Content [AN002] Tested: 5/12/2022

PARAMETER	UOM	LOR	ST-01-1533-BH19(0.(m) SOIL - 7/11/2022 SE239041A.100	ST-01-1533-BH74(0.5 m) SOIL - 8/11/2022 SE239041A.101
% Moisture	%w/w	1	**5.3**	**21**

Particle sizing of soils by sieving [AN005] Tested: 6/12/2022

PARAMETER	UOM	LOR	ST-01-1533-BH19(0.(m) SOIL - 7/11/2022 SE239041A.100	ST-01-1533-BH74(0.5 m) SOIL - 8/11/2022 SE239041A.101
Passing 75µm*	%w/w	1	**5**	**80**
Retained 75µm*	%w/w	1	**95**	**20**

Particle sizing of soils <75µm by hydrometer [AN005] Tested: 6/12/2022

PARAMETER	UOM	LOR	ST-01-1533-BH19(0.(m) SOIL - 7/11/2022 SE239041A.100	ST-01-1533-BH74(0.5 m) SOIL - 8/11/2022 SE239041A.101
Clay (<0.002mm)*	%w/w	0.1	**2.0**	**40**

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN005	The particle size distribution of a soil is determined by wet sieving, using a maximum of 900 mL of deionised water to sieve all fractions down to 75 µm. Referenced to AS1289.3.6.1 and AS1141.11.
AN005	Following wet sieving of the sample,(particles smaller than 75 µm) a dispersing solution is added and a hydrometer is used to measure sedimentation. Soil density is determined and the percentage of each size fraction calculated. Referenced to AS1289.3.6.3.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN122	Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g.
AN122	The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100. ESP can be used to categorise the sodicity of the soil as below: ESP < 6% non-sodic ESP 6-15% sodic ESP >15% strongly sodic Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.-

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		
***	Indicates that both * and ** apply.				

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE239041A R0

CLIENT DETAILS

Contact	Kannan Kaliappan
Client	K2 CONSULTING GROUP
Address	SUITE 222, 20B LEXINGTON DRIVE BELLA VISTA NSW 2153
Telephone	61 8 00 523 000
Facsimile	(Not specified)
Email	kannan@k2consultinggroup.com.au
Project	**ST-01-1533 (515 Crookwell Road, Kingsdal**
Order Number	**ST-01-1533**
Samples	101

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE239041A R0**
Date Received	28 Nov 2022
Date Reported	06 Dec 2022

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Extraction Date	Moisture Content	2 items
	pH in soil (1:5)	2 items

SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	2 Soil
Date documentation received	28/11/2022@1:29pn	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	14.6C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

HOLDING TIME SUMMARY

SE239041A R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) — Method: ME-(AU)-[ENV]AN122

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-BH19(0.6m)	SE239041A.100	LB265599	07 Nov 2022	28 Nov 2022	05 Dec 2022	05 Dec 2022	05 Dec 2022	05 Dec 2022
ST-01-1533-BH74(0.5m)	SE239041A.101	LB265599	08 Nov 2022	28 Nov 2022	06 Dec 2022	05 Dec 2022	06 Dec 2022	05 Dec 2022

Moisture Content — Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-BH19(0.6m)	SE239041A.100	LB265644	07 Nov 2022	28 Nov 2022	21 Nov 2022	05 Dec 2022†	10 Dec 2022	05 Dec 2022
ST-01-1533-BH74(0.5m)	SE239041A.101	LB265644	08 Nov 2022	28 Nov 2022	22 Nov 2022	05 Dec 2022†	10 Dec 2022	05 Dec 2022

pH in soil (1:5) — Method: ME-(AU)-[ENV]AN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-BH19(0.6m)	SE239041A.100	LB265683	07 Nov 2022	28 Nov 2022	14 Nov 2022	05 Dec 2022†	06 Dec 2022	05 Dec 2022
ST-01-1533-BH74(0.5m)	SE239041A.101	LB265683	08 Nov 2022	28 Nov 2022	15 Nov 2022	05 Dec 2022†	06 Dec 2022	05 Dec 2022

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) — **Method: ME-(AU)-[ENV]AN122**

Sample Number	Parameter	Units	LOR	Result
LB265599.001	Exchangeable Sodium, Na	mg/kg	2	0.4399
	Exchangeable Potassium, K	mg/kg	2	-0.2399
	Exchangeable Calcium, Ca	mg/kg	2	-1.3979
	Exchangeable Magnesium, Mg	mg/kg	2	-0.0786

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

pH in soil (1:5) **Method: ME-(AU)-[ENV]AN101**

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239286A.013	LB265683.007	pH	pH Units	0.1	6.9	6.8	31	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) — Method: ME-(AU)-[ENV]AN122

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB265599.002	Exchangeable Sodium, Na	meq/100g	0.01	0.18	0.194	80 - 120	90
	Exchangeable Potassium, K	meq/100g	0.01	0.51	0.63	80 - 120	80
	Exchangeable Calcium, Ca	meq/100g	0.01	5.9	6.3	80 - 120	94
	Exchangeable Magnesium, Mg	meq/100g	0.02	0.95	1.11	80 - 120	86

pH in soil (1:5) — Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB265683.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spikes were required for this job.

MATRIX SPIKE DUPLICATES

SE239041A R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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CHAIN OF CUSTODY & ANALYSIS REQUEST

Page____of ____

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499

Email: au.samplereceipt.sydney@sgs.com

Company Name:	K2 Consulting Group	Project Name/No:	ST-01-1533 (515 Crookwell Road, Kingsdale NSW 2580)
Address:	Suite 222 (Building B)	Purchase Order No:	
	20 Lexington Drive, Bella Vista NSW 2153	Results Required By:	5 Days TAT
		Telephone:	0449 669 559
Contact Name:	Kannan Kaliappan	Facsimile:	
		Email Results:	kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

Client Sample ID	Date Sampled	Lab Sample ID	pH	%Clay	Cation Exchange Capacity (CEC)
ST-01-1533-BH19 (0.6m)	07/11/2022		X	X	X
ST-01-1533-BH74 (0.5m)	08/11/2022		X	X	X

Relinquished By: Sirish Baniya	Date/Time:11/11/2022	Received By:		Date/Time
Relinquished By:	Date/Time:	Received By:		Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No		Laboratory Quotation No:
	Comments:			

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Kannan Kaliappan	Manager	Huong Crawford
Client	K2 CONSULTING GROUP	Laboratory	SGS Alexandria Environmental
Address	SUITE 222, 20B LEXINGTON DRIVE BELLA VISTA NSW 2153	Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	61 8 00 523 000	Telephone	+61 2 8594 0400
Facsimile	(Not specified)	Facsimile	+61 2 8594 0499
Email	kannan@k2consultinggroup.com.au	Email	au.environmental.sydney@sgs.com
Project	**ST-01-1533(515 Crookwell Road, Kingsdale**	SGS Reference	**SE241552A R0**
Order Number	**ST-01-1533**	Date Received	12 Jan 2023
Samples	7	Date Reported	17 Jan 2023

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

OC/PCB - TRH-Detection limit(s) raised due to high moisture content of the sample.

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Shane MCDERMOTT
Inorganic/Metals Chemist

Teresa NGUYEN
Organic Chemist

Parameter	Units	LOR	Sample Number: SE241552A.001 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: ST-01-1533-GW4	SE241552A.002 Water 10 Jan 2023 ST-01-1533-GW5	SE241552A.003 Water 10 Jan 2023 ST-01-1533-WD1	SE241552A.004 Water 10 Jan 2023 ST-01-1533-WD2
VOC's in Soil Method: AN433 Tested: 17/1/2023						
Monocyclic Aromatic Hydrocarbons						
Benzene	mg/kg	0.1	-	-	-	-
Toluene	mg/kg	0.1	-	-	-	-
Ethylbenzene	mg/kg	0.1	-	-	-	-
m/p-xylene	mg/kg	0.2	-	-	-	-
o-xylene	mg/kg	0.1	-	-	-	-
Polycyclic VOCs						
Naphthalene (VOC)*	mg/kg	0.1	-	-	-	-
Surrogates						
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-
Totals						
Total BTEX*	mg/kg	0.6	-	-	-	-
Total Xylenes*	mg/kg	0.3	-	-	-	-
Volatile Petroleum Hydrocarbons in Soil Method: AN433 Tested: 17/1/2023						
TRH C6-C10	mg/kg	25	-	-	-	-
TRH C6-C9	mg/kg	20	-	-	-	-
Surrogates						
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	-	-
d8-toluene (Surrogate)	%	-	-	-	-	-
Bromofluorobenzene (Surrogate)	%	-	-	-	-	-
VPH F Bands						
Benzene (F0)	mg/kg	0.1	-	-	-	-
TRH C6-C10 minus BTEX (F1)	mg/kg	25	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE241552A.001 Water 10 Jan 2023 ST-01-1533-GW4	SE241552A.002 Water 10 Jan 2023 ST-01-1533-GW5	SE241552A.003 Water 10 Jan 2023 ST-01-1533-WD1	SE241552A.004 Water 10 Jan 2023 ST-01-1533-WD2
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403 Tested: 17/1/2023						
TRH C10-C14	mg/kg	20	-	-	-	-
TRH C15-C28	mg/kg	45	-	-	-	-
TRH C29-C36	mg/kg	45	-	-	-	-
TRH C37-C40	mg/kg	100	-	-	-	-
TRH C10-C36 Total	mg/kg	110	-	-	-	-
TRH >C10-C40 Total (F bands)	mg/kg	210	-	-	-	-
TRH F Bands						
TRH >C10-C16	mg/kg	25	-	-	-	-
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	-	-	-	-
TRH >C16-C34 (F3)	mg/kg	90	-	-	-	-
TRH >C34-C40 (F4)	mg/kg	120	-	-	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 Tested: 17/1/2023						
Naphthalene	mg/kg	0.1	-	-	-	-
2-methylnaphthalene	mg/kg	0.1	-	-	-	-
1-methylnaphthalene	mg/kg	0.1	-	-	-	-
Acenaphthylene	mg/kg	0.1	-	-	-	-
Acenaphthene	mg/kg	0.1	-	-	-	-
Fluorene	mg/kg	0.1	-	-	-	-
Phenanthrene	mg/kg	0.1	-	-	-	-
Anthracene	mg/kg	0.1	-	-	-	-
Fluoranthene	mg/kg	0.1	-	-	-	-
Pyrene	mg/kg	0.1	-	-	-	-
Benzo(a)anthracene	mg/kg	0.1	-	-	-	-
Chrysene	mg/kg	0.1	-	-	-	-
Benzo(b&j)fluoranthene	mg/kg	0.1	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-
Benzo(a)pyrene	mg/kg	0.1	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	-	-	-	-
Dibenzo(ah)anthracene	mg/kg	0.1	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.1	-	-	-	-
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	-	-	-	-
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	-	-	-	-
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	-	-	-	-
Total PAH (18)	mg/kg	0.8	-	-	-	-
Total PAH (NEPM/WHO 16)	mg/kg	0.8	-	-	-	-
Surrogates						
d5-nitrobenzene (Surrogate)	%	-	-	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-
OC Pesticides in Soil Method: AN420 Tested: 17/1/2023						
Alpha BHC	mg/kg	0.1	-	-	-	-
Hexachlorobenzene (HCB)	mg/kg	0.1	-	-	-	-
Beta BHC	mg/kg	0.1	-	-	-	-
Lindane (gamma BHC)	mg/kg	0.1	-	-	-	-
Delta BHC	mg/kg	0.1	-	-	-	-
Heptachlor	mg/kg	0.1	-	-	-	-
Aldrin	mg/kg	0.1	-	-	-	-
Isodrin	mg/kg	0.1	-	-	-	-
Heptachlor epoxide	mg/kg	0.1	-	-	-	-
Gamma Chlordane	mg/kg	0.1	-	-	-	-
Alpha Chlordane	mg/kg	0.1	-	-	-	-
Alpha Endosulfan	mg/kg	0.2	-	-	-	-
o,p'-DDE*	mg/kg	0.1	-	-	-	-
p,p'-DDE	mg/kg	0.1	-	-	-	-
Dieldrin	mg/kg	0.2	-	-	-	-
Endrin	mg/kg	0.2	-	-	-	-

Parameter	Units	LOR	Sample Number: SE241552A.001 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: ST-01-1533-GW4	SE241552A.002 Water 10 Jan 2023 ST-01-1533-GW5	SE241552A.003 Water 10 Jan 2023 ST-01-1533-WD1	SE241552A.004 Water 10 Jan 2023 ST-01-1533-WD2
OC Pesticides in Soil Method: AN420 Tested: 17/1/2023 (continued)						
Beta Endosulfan	mg/kg	0.2	-	-	-	-
o,p'-DDD*	mg/kg	0.1	-	-	-	-
p,p'-DDD	mg/kg	0.1	-	-	-	-
Endrin aldehyde	mg/kg	0.1	-	-	-	-
Endosulfan sulphate	mg/kg	0.1	-	-	-	-
o,p'-DDT*	mg/kg	0.1	-	-	-	-
p,p'-DDT	mg/kg	0.1	-	-	-	-
Endrin ketone	mg/kg	0.1	-	-	-	-
Methoxychlor	mg/kg	0.1	-	-	-	-
Mirex	mg/kg	0.1	-	-	-	-
trans-Nonachlor	mg/kg	0.1	-	-	-	-
Total CLP OC Pesticides	mg/kg	1	-	-	-	-
Total OC VIC EPA	mg/kg	1	-	-	-	-
Surrogates						
Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	-	-	-
OP Pesticides in Soil Method: AN420 Tested: 17/1/2023						
Azinphos-methyl (Guthion)	mg/kg	0.2	-	-	-	-
Bromophos Ethyl	mg/kg	0.2	-	-	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	-	-	-	-
Diazinon (Dimpylate)	mg/kg	0.5	-	-	-	-
Dichlorvos	mg/kg	0.5	-	-	-	-
Dimethoate	mg/kg	0.5	-	-	-	-
Ethion	mg/kg	0.2	-	-	-	-
Fenitrothion	mg/kg	0.2	-	-	-	-
Malathion	mg/kg	0.2	-	-	-	-
Methidathion	mg/kg	0.5	-	-	-	-
Parathion-ethyl (Parathion)	mg/kg	0.2	-	-	-	-
Total OP Pesticides*	mg/kg	1.7	-	-	-	-
Surrogates						
2-fluorobiphenyl (Surrogate)	%	-	-	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-	-	-
PCBs in Soil Method: AN420 Tested: 17/1/2023						
Arochlor 1016	mg/kg	0.2	-	-	-	-
Arochlor 1221	mg/kg	0.2	-	-	-	-
Arochlor 1232	mg/kg	0.2	-	-	-	-
Arochlor 1242	mg/kg	0.2	-	-	-	-
Arochlor 1248	mg/kg	0.2	-	-	-	-
Arochlor 1254	mg/kg	0.2	-	-	-	-
Arochlor 1260	mg/kg	0.2	-	-	-	-
Arochlor 1262	mg/kg	0.2	-	-	-	-
Arochlor 1268	mg/kg	0.2	-	-	-	-
Total PCBs (Arochlors)	mg/kg	1	-	-	-	-
Surrogates						
TCMX (Surrogate)	%	-	-	-	-	-

Parameter	Units	LOR	Sample Number: SE241552A.001 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: ST-01-1533-GW4	SE241552A.002 Water 10 Jan 2023 ST-01-1533-GW5	SE241552A.003 Water 10 Jan 2023 ST-01-1533-WD1	SE241552A.004 Water 10 Jan 2023 ST-01-1533-WD2
Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES Method: AN040/AN320 Tested: 17/1/2023						
Arsenic, As	mg/kg	1	-	-	-	-
Cadmium, Cd	mg/kg	0.3	-	-	-	-
Chromium, Cr	mg/kg	0.5	-	-	-	-
Copper, Cu	mg/kg	0.5	-	-	-	-
Nickel, Ni	mg/kg	0.5	-	-	-	-
Lead, Pb	mg/kg	1	-	-	-	-
Zinc, Zn	mg/kg	2	-	-	-	-
Mercury in Soil Method: AN312 Tested: 17/1/2023						
Mercury	mg/kg	0.05	-	-	-	-
Moisture Content Method: AN002 Tested: 17/1/2023						
% Moisture	%w/w	1	-	-	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE241552A.005 Water 10 Jan 2023 Trip Spike	SE241552A.006 Water 10 Jan 2023 Trip Blank	SE241552A.007 Soil 10 Jan 2023 ST-01-1533-WD1(Sediment)
VOC's in Soil Method: AN433 Tested: 17/1/2023					
Monocyclic Aromatic Hydrocarbons					
Benzene	mg/kg	0.1	-	-	<0.1
Toluene	mg/kg	0.1	-	-	<0.1
Ethylbenzene	mg/kg	0.1	-	-	<0.1
m/p-xylene	mg/kg	0.2	-	-	<0.2
o-xylene	mg/kg	0.1	-	-	<0.1
Polycyclic VOCs					
Naphthalene (VOC)*	mg/kg	0.1	-	-	<0.1
Surrogates					
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	**96**
d8-toluene (Surrogate)	%	-	-	-	**92**
Bromofluorobenzene (Surrogate)	%	-	-	-	**94**
Totals					
Total BTEX*	mg/kg	0.6	-	-	<0.6
Total Xylenes*	mg/kg	0.3	-	-	<0.3
Volatile Petroleum Hydrocarbons in Soil Method: AN433 Tested: 17/1/2023					
TRH C6-C10	mg/kg	25	-	-	<25
TRH C6-C9	mg/kg	20	-	-	<20
Surrogates					
d4-1,2-dichloroethane (Surrogate)	%	-	-	-	**96**
d8-toluene (Surrogate)	%	-	-	-	**92**
Bromofluorobenzene (Surrogate)	%	-	-	-	**94**
VPH F Bands					
Benzene (F0)	mg/kg	0.1	-	-	<0.1
TRH C6-C10 minus BTEX (F1)	mg/kg	25	-	-	<25

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name	SE241552A.005 Water 10 Jan 2023 Trip Spike	SE241552A.006 Water 10 Jan 2023 Trip Blank	SE241552A.007 Soil 10 Jan 2023 ST-01-1533-WD1(Sediment)
TRH (Total Recoverable Hydrocarbons) in Soil Method: AN403 Tested: 17/1/2023						
TRH C10-C14	mg/kg	20		-	-	<40↑
TRH C15-C28	mg/kg	45		-	-	<90↑
TRH C29-C36	mg/kg	45		-	-	<90↑
TRH C37-C40	mg/kg	100		-	-	<200↑
TRH C10-C36 Total	mg/kg	110		-	-	<220↑
TRH >C10-C40 Total (F bands)	mg/kg	210		-	-	<420↑
TRH F Bands						
TRH >C10-C16	mg/kg	25		-	-	<50↑
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25		-	-	<50↑
TRH >C16-C34 (F3)	mg/kg	90		-	-	<180↑
TRH >C34-C40 (F4)	mg/kg	120		-	-	<240↑
PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: AN420 Tested: 17/1/2023						
Naphthalene	mg/kg	0.1		-	-	<0.1
2-methylnaphthalene	mg/kg	0.1		-	-	<0.1
1-methylnaphthalene	mg/kg	0.1		-	-	<0.1
Acenaphthylene	mg/kg	0.1		-	-	<0.1
Acenaphthene	mg/kg	0.1		-	-	<0.1
Fluorene	mg/kg	0.1		-	-	<0.1
Phenanthrene	mg/kg	0.1		-	-	<0.1
Anthracene	mg/kg	0.1		-	-	<0.1
Fluoranthene	mg/kg	0.1		-	-	<0.1
Pyrene	mg/kg	0.1		-	-	<0.1
Benzo(a)anthracene	mg/kg	0.1		-	-	<0.1
Chrysene	mg/kg	0.1		-	-	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1		-	-	<0.1
Benzo(k)fluoranthene	mg/kg	0.1		-	-	<0.1
Benzo(a)pyrene	mg/kg	0.1		-	-	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1		-	-	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1		-	-	<0.1
Benzo(ghi)perylene	mg/kg	0.1		-	-	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2		-	-	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2		-	-	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3		-	-	<0.3
Total PAH (18)	mg/kg	0.8		-	-	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8		-	-	<0.8
Surrogates						
d5-nitrobenzene (Surrogate)	%	-		-	-	**90**
2-fluorobiphenyl (Surrogate)	%	-		-	-	**78**
d14-p-terphenyl (Surrogate)	%	-		-	-	**84**
OC Pesticides in Soil Method: AN420 Tested: 17/1/2023						
Alpha BHC	mg/kg	0.1		-	-	<0.2↑
Hexachlorobenzene (HCB)	mg/kg	0.1		-	-	<0.2↑
Beta BHC	mg/kg	0.1		-	-	<0.2↑
Lindane (gamma BHC)	mg/kg	0.1		-	-	<0.2↑
Delta BHC	mg/kg	0.1		-	-	<0.2↑
Heptachlor	mg/kg	0.1		-	-	<0.2↑
Aldrin	mg/kg	0.1		-	-	<0.2↑
Isodrin	mg/kg	0.1		-	-	<0.2↑
Heptachlor epoxide	mg/kg	0.1		-	-	<0.2↑
Gamma Chlordane	mg/kg	0.1		-	-	<0.2↑
Alpha Chlordane	mg/kg	0.1		-	-	<0.2↑
Alpha Endosulfan	mg/kg	0.2		-	-	<0.4↑
o,p'-DDE*	mg/kg	0.1		-	-	<0.2↑
p,p'-DDE	mg/kg	0.1		-	-	<0.2↑
Dieldrin	mg/kg	0.2		-	-	<0.4↑

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE241552A.005 Water 10 Jan 2023 Trip Spike	SE241552A.006 Water 10 Jan 2023 Trip Blank	SE241552A.007 Soil 10 Jan 2023 ST-01-1533-WD1(Sediment)
OC Pesticides in Soil Method: AN420 Tested: 13/1/2023 (continued)					
Endrin	mg/kg	0.2	-	-	<0.4↑
Beta Endosulfan	mg/kg	0.2	-	-	<0.4↑
o,p'-DDD*	mg/kg	0.1	-	-	<0.2↑
p,p'-DDD	mg/kg	0.1	-	-	<0.2↑
Endrin aldehyde	mg/kg	0.1	-	-	<0.2↑
Endosulfan sulphate	mg/kg	0.1	-	-	<0.2↑
o,p'-DDT*	mg/kg	0.1	-	-	<0.2↑
p,p'-DDT	mg/kg	0.1	-	-	<0.2↑
Endrin ketone	mg/kg	0.1	-	-	<0.2↑
Methoxychlor	mg/kg	0.1	-	-	<0.2↑
Mirex	mg/kg	0.1	-	-	<0.2↑
trans-Nonachlor	mg/kg	0.1	-	-	<0.2↑
Total CLP OC Pesticides	mg/kg	1	-	-	<2↑
Total OC VIC EPA	mg/kg	1	-	-	<2↑
Surrogates					
Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	-	**96**
OP Pesticides in Soil Method: AN420 Tested: 17/1/2023					
Azinphos-methyl (Guthion)	mg/kg	0.2	-	-	<0.2
Bromophos Ethyl	mg/kg	0.2	-	-	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	-	-	<0.2
Diazinon (Dimpylate)	mg/kg	0.5	-	-	<0.5
Dichlorvos	mg/kg	0.5	-	-	<0.5
Dimethoate	mg/kg	0.5	-	-	<0.5
Ethion	mg/kg	0.2	-	-	<0.2
Fenitrothion	mg/kg	0.2	-	-	<0.2
Malathion	mg/kg	0.2	-	-	<0.2
Methidathion	mg/kg	0.5	-	-	<0.5
Parathion-ethyl (Parathion)	mg/kg	0.2	-	-	<0.2
Total OP Pesticides*	mg/kg	1.7	-	-	<1.7
Surrogates					
2-fluorobiphenyl (Surrogate)	%	-	-	-	**78**
d14-p-terphenyl (Surrogate)	%	-	-	-	**84**
PCBs in Soil Method: AN420 Tested: 17/1/2023					
Arochlor 1016	mg/kg	0.2	-	-	<0.2
Arochlor 1221	mg/kg	0.2	-	-	<0.2
Arochlor 1232	mg/kg	0.2	-	-	<0.2
Arochlor 1242	mg/kg	0.2	-	-	<0.2
Arochlor 1248	mg/kg	0.2	-	-	<0.2
Arochlor 1254	mg/kg	0.2	-	-	<0.2
Arochlor 1260	mg/kg	0.2	-	-	<0.2
Arochlor 1262	mg/kg	0.2	-	-	<0.2
Arochlor 1268	mg/kg	0.2	-	-	<0.2
Total PCBs (Arochlors)	mg/kg	1	-	-	<1

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE241552A.005 Water 10 Jan 2023 Trip Spike	SE241552A.006 Water 10 Jan 2023 Trip Blank	SE241552A.007 Soil 10 Jan 2023 ST-01-1533-WD1(Sediment)
PCBs in Soil Method: AN420 Tested: 17/1/2023 (continued)					
Surrogates					
TCMX (Surrogate)	%	-	-	-	**98**
Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES Method: AN040/AN320 Tested: 17/1/2023					
Arsenic, As	mg/kg	1	-	-	**2**
Cadmium, Cd	mg/kg	0.3	-	-	<0.3
Chromium, Cr	mg/kg	0.5	-	-	**56**
Copper, Cu	mg/kg	0.5	-	-	**18**
Nickel, Ni	mg/kg	0.5	-	-	**31**
Lead, Pb	mg/kg	1	-	-	**8**
Zinc, Zn	mg/kg	2	-	-	**34**
Mercury in Soil Method: AN312 Tested: 17/1/2023					
Mercury	mg/kg	0.05	-	-	<0.05
Moisture Content Method: AN002 Tested: 17/1/2023					
% Moisture	%w/w	1	-	-	**54.6**

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Mercury in Soil **Method: ME-(AU)-[ENV]AN312**

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Mercury	LB268767	mg/kg	0.05	<0.05	0%	113%	110%

Moisture Content **Method: ME-(AU)-[ENV]AN002**

Parameter	QC Reference	Units	LOR	DUP %RPD
% Moisture	LB268758	%w/w	1	1 - 7%

OC Pesticides in Soil **Method: ME-(AU)-[ENV]AN420**

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Alpha BHC	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Hexachlorobenzene (HCB)	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Beta BHC	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Lindane (gamma BHC)	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Delta BHC	LB268742	mg/kg	0.1	<0.1	0%	80%	84%
Heptachlor	LB268742	mg/kg	0.1	<0.1	0%	84%	92%
Aldrin	LB268742	mg/kg	0.1	<0.1	0%	82%	90%
Isodrin	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Heptachlor epoxide	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Gamma Chlordane	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Alpha Chlordane	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Alpha Endosulfan	LB268742	mg/kg	0.2	<0.1	0%	NA	NA
o,p'-DDE*	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
p,p'-DDE	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Dieldrin	LB268742	mg/kg	0.2	<0.1	0%	83%	89%
Endrin	LB268742	mg/kg	0.2	<0.1	0%	80%	86%
Beta Endosulfan	LB268742	mg/kg	0.2	<0.1	0%	NA	NA
o,p'-DDD*	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
p,p'-DDD	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Endrin aldehyde	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Endosulfan sulphate	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
o,p'-DDT*	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
p,p'-DDT	LB268742	mg/kg	0.1	<0.1	0%	72%	79%
Endrin ketone	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Methoxychlor	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Mirex	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
trans-Nonachlor	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Total CLP OC Pesticides	LB268742	mg/kg	1	<1	0%	NA	NA
Total OC VIC EPA	LB268742	mg/kg	1	<1	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Tetrachloro-m-xylene (TCMX) (Surrogate)	LB268742	%	-	87%	2 - 7%	89%	91%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

OP Pesticides in Soil **Method: ME-(AU)-[ENV]AN420**

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Azinphos-methyl (Guthion)	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Bromophos Ethyl	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Chlorpyrifos (Chlorpyrifos Ethyl)	LB268742	mg/kg	0.2	<0.2	0%	98%	90%
Diazinon (Dimpylate)	LB268742	mg/kg	0.5	<0.5	0%	96%	90%
Dichlorvos	LB268742	mg/kg	0.5	<0.5	0%	83%	77%
Dimethoate	LB268742	mg/kg	0.5	<0.5	0%	NA	NA
Ethion	LB268742	mg/kg	0.2	<0.2	0%	83%	77%
Fenitrothion	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Malathion	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Methidathion	LB268742	mg/kg	0.5	<0.5	0%	NA	NA
Parathion-ethyl (Parathion)	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Total OP Pesticides*	LB268742	mg/kg	1.7	<1.7	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
2-fluorobiphenyl (Surrogate)	LB268742	%	-	78%	0 - 3%	74%	72%
d14-p-terphenyl (Surrogate)	LB268742	%	-	78%	0%	74%	72%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil Method: ME-(AU)-[ENV]AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene	LB268742	mg/kg	0.1	<0.1	0%	114%	113%
2-methylnaphthalene	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
1-methylnaphthalene	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Acenaphthylene	LB268742	mg/kg	0.1	<0.1	0%	96%	94%
Acenaphthene	LB268742	mg/kg	0.1	<0.1	0%	118%	114%
Fluorene	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Phenanthrene	LB268742	mg/kg	0.1	<0.1	0%	120%	116%
Anthracene	LB268742	mg/kg	0.1	<0.1	0%	117%	114%
Fluoranthene	LB268742	mg/kg	0.1	<0.1	0%	114%	110%
Pyrene	LB268742	mg/kg	0.1	<0.1	0%	113%	110%
Benzo(a)anthracene	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Chrysene	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(b&j)fluoranthene	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(k)fluoranthene	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(a)pyrene	LB268742	mg/kg	0.1	<0.1	0%	110%	109%
Indeno(1,2,3-cd)pyrene	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Dibenzo(ah)anthracene	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Benzo(ghi)perylene	LB268742	mg/kg	0.1	<0.1	0%	NA	NA
Carcinogenic PAHs, BaP TEQ <LOR=0*	LB268742	TEQ (mg/kg)	0.2	<0.2	0%	NA	NA
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	LB268742	TEQ (mg/kg)	0.2	<0.2	0%	NA	NA
Carcinogenic PAHs, BaP TEQ <LOR=LOR*	LB268742	TEQ (mg/kg)	0.3	<0.3	0%	NA	NA
Total PAH (18)	LB268742	mg/kg	0.8	<0.8	0%	NA	NA
Total PAH (NEPM/WHO 16)	LB268742	mg/kg	0.8	<0.8			

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
d5-nitrobenzene (Surrogate)	LB268742	%	-	80%	2%	84%	82%
2-fluorobiphenyl (Surrogate)	LB268742	%	-	78%	0 - 3%	74%	72%
d14-p-terphenyl (Surrogate)	LB268742	%	-	78%	0%	74%	72%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

PCBs in Soil Method: ME-(AU)-[ENV]AN420

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arochlor 1016	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Arochlor 1221	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Arochlor 1232	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Arochlor 1242	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Arochlor 1248	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Arochlor 1254	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Arochlor 1260	LB268742	mg/kg	0.2	<0.2	0%	116%	124%
Arochlor 1262	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Arochlor 1268	LB268742	mg/kg	0.2	<0.2	0%	NA	NA
Total PCBs (Arochlors)	LB268742	mg/kg	1	<1	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TCMX (Surrogate)	LB268742	%	-	89%	2 - 7%	91%	93%

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES Method: ME-(AU)-[ENV]AN040/AN320

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic, As	LB268764	mg/kg	1	<1	8 - 11%	109%	78%
Cadmium, Cd	LB268764	mg/kg	0.3	<0.3	0%	97%	88%
Chromium, Cr	LB268764	mg/kg	0.5	<0.5	3 - 4%	106%	90%
Copper, Cu	LB268764	mg/kg	0.5	<0.5	3 - 10%	108%	82%
Nickel, Ni	LB268764	mg/kg	0.5	<0.5	5 - 18%	103%	85%
Lead, Pb	LB268764	mg/kg	1	<1	7 - 10%	103%	85%
Zinc, Zn	LB268764	mg/kg	2	<2.0	3 - 6%	102%	80%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

TRH (Total Recoverable Hydrocarbons) in Soil **Method: ME-(AU)-[ENV]AN403**

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C10-C14	LB268742	mg/kg	20	<20	0%	117%	113%
TRH C15-C28	LB268742	mg/kg	45	<45	0%	122%	107%
TRH C29-C36	LB268742	mg/kg	45	<45	0%	78%	87%
TRH C37-C40	LB268742	mg/kg	100	<100	0%	NA	
TRH C10-C36 Total	LB268742	mg/kg	110	<110	0%	NA	NA
TRH >C10-C40 Total (F bands)	LB268742	mg/kg	210	<210	0%	NA	NA

TRH F Bands

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH >C10-C16	LB268742	mg/kg	25	<25	0%	116%	116%
TRH >C10-C16 - Naphthalene (F2)	LB268742	mg/kg	25	<25	0%	NA	NA
TRH >C16-C34 (F3)	LB268742	mg/kg	90	<90	0%	113%	102%
TRH >C34-C40 (F4)	LB268742	mg/kg	120	<120	0%	71%	NA

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

VOC's in Soil **Method: ME-(AU)-[ENV]AN433**

Monocyclic Aromatic Hydrocarbons

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Benzene	LB268746	mg/kg	0.1	<0.1	0%	97%	105%
Toluene	LB268746	mg/kg	0.1	<0.1	0%	95%	103%
Ethylbenzene	LB268746	mg/kg	0.1	<0.1	0%	96%	106%
m/p-xylene	LB268746	mg/kg	0.2	<0.2	0%	93%	102%
o-xylene	LB268746	mg/kg	0.1	<0.1	0%	98%	109%

Polycyclic VOCs

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene (VOC)*	LB268746	mg/kg	0.1	<0.1	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
d4-1,2-dichloroethane (Surrogate)	LB268746	%	-	80%	1 - 8%	99%	103%
d8-toluene (Surrogate)	LB268746	%	-	78%	0 - 10%	95%	99%
Bromofluorobenzene (Surrogate)	LB268746	%	-	78%	1 - 7%	90%	96%

Totals

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total BTEX*	LB268746	mg/kg	0.6	<0.6	0%	NA	NA
Total Xylenes*	LB268746	mg/kg	0.3	<0.3	0%	NA	NA

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Volatile Petroleum Hydrocarbons in Soil **Method: ME-(AU)-[ENV]AN433**

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C6-C10	LB268746	mg/kg	25	<25	0%	97%	100%
TRH C6-C9	LB268746	mg/kg	20	<20	0%	97%	100%

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
d4-1,2-dichloroethane (Surrogate)	LB268746	%	-	80%	1 - 8%	99%	103%
d8-toluene (Surrogate)	LB268746	%	-	78%	0 - 10%	95%	99%
Bromofluorobenzene (Surrogate)	LB268746	%	-	78%	1 - 7%	90%	96%

VPH F Bands

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Benzene (F0)	LB268746	mg/kg	0.1	<0.1	0%	NA	NA
TRH C6-C10 minus BTEX (F1)	LB268746	mg/kg	25	<25	0%	98%	98%

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents .
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting .
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
		QFL	QC result is below the lower tolerance
**	Indicative data, theoretical holding time exceeded.	-	The sample was not analysed for this analyte
***	Indicates that both * and ** apply.	NVL	Not Validated

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calcuated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE241552A R0

CLIENT DETAILS

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Facsimile	(Not specified)
Email	kannan@k2consultinggroup.com.au
Project	**ST-01-1533(515 Crookwell Road, Kingsdale**
Order Number	**ST-01-1533**
Samples	7

LABORATORY DETAILS

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SGS Reference	**SE241552A R0**
Date Received	12 Jan 2023
Date Reported	17 Jan 2023

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Sample counts by matrix	1 Soil	Type of documentation received	COC
Date documentation received	12/1/2023@2:10pm	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	10.0°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE241552A R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-WD1(Sediment	SE241552A.007	LB268767	10 Jan 2023	12 Jan 2023	07 Feb 2023	13 Jan 2023	07 Feb 2023	17 Jan 2023

Moisture Content

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-WD1(Sediment	SE241552A.007	LB268758	10 Jan 2023	12 Jan 2023	24 Jan 2023	13 Jan 2023	18 Jan 2023	17 Jan 2023

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-WD1(Sediment	SE241552A.007	LB268742	10 Jan 2023	12 Jan 2023	24 Jan 2023	13 Jan 2023	22 Feb 2023	17 Jan 2023

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-WD1(Sediment	SE241552A.007	LB268742	10 Jan 2023	12 Jan 2023	24 Jan 2023	13 Jan 2023	22 Feb 2023	17 Jan 2023

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-WD1(Sediment	SE241552A.007	LB268742	10 Jan 2023	12 Jan 2023	24 Jan 2023	13 Jan 2023	22 Feb 2023	17 Jan 2023

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-WD1(Sediment	SE241552A.007	LB268742	10 Jan 2023	12 Jan 2023	24 Jan 2023	13 Jan 2023	22 Feb 2023	17 Jan 2023

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-WD1(Sediment	SE241552A.007	LB268764	10 Jan 2023	12 Jan 2023	09 Jul 2023	13 Jan 2023	09 Jul 2023	17 Jan 2023

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-WD1(Sediment	SE241552A.007	LB268742	10 Jan 2023	12 Jan 2023	24 Jan 2023	13 Jan 2023	22 Feb 2023	17 Jan 2023

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-WD1(Sediment	SE241552A.007	LB268746	10 Jan 2023	12 Jan 2023	24 Jan 2023	13 Jan 2023	24 Jan 2023	17 Jan 2023

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-WD1(Sediment	SE241552A.007	LB268746	10 Jan 2023	12 Jan 2023	24 Jan 2023	13 Jan 2023	24 Jan 2023	17 Jan 2023

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	60 - 130%	96

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	60 - 130%	78
d14-p-terphenyl (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	60 - 130%	84

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	70 - 130%	78
d14-p-terphenyl (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	70 - 130%	84
d5-nitrobenzene (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	70 - 130%	90

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	60 - 130%	98

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	60 - 130%	94
d4-1,2-dichloroethane (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	60 - 130%	96
d8-toluene (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	60 - 130%	92

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	60 - 130%	94
d4-1,2-dichloroethane (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	60 - 130%	96
d8-toluene (Surrogate)	ST-01-1533-WD1(Sediment)	SE241552A.007	%	60 - 130%	92

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result
LB268767.001	Mercury	mg/kg	0.05	<0.05

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB268742.001		Alpha BHC	mg/kg	0.1	<0.1
		Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
		Beta BHC	mg/kg	0.1	<0.1
		Lindane (gamma BHC)	mg/kg	0.1	<0.1
		Delta BHC	mg/kg	0.1	<0.1
		Heptachlor	mg/kg	0.1	<0.1
		Aldrin	mg/kg	0.1	<0.1
		Isodrin	mg/kg	0.1	<0.1
		Heptachlor epoxide	mg/kg	0.1	<0.1
		Gamma Chlordane	mg/kg	0.1	<0.1
		Alpha Chlordane	mg/kg	0.1	<0.1
		Alpha Endosulfan	mg/kg	0.2	<0.1
		p,p'-DDE	mg/kg	0.1	<0.1
		Dieldrin	mg/kg	0.2	<0.1
		Endrin	mg/kg	0.2	<0.1
		Beta Endosulfan	mg/kg	0.2	<0.1
		p,p'-DDD	mg/kg	0.1	<0.1
		Endrin aldehyde	mg/kg	0.1	<0.1
		Endosulfan sulphate	mg/kg	0.1	<0.1
		p,p'-DDT	mg/kg	0.1	<0.1
		Endrin ketone	mg/kg	0.1	<0.1
		Methoxychlor	mg/kg	0.1	<0.1
		Mirex	mg/kg	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	87

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB268742.001		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
		Bromophos Ethyl	mg/kg	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
		Diazinon (Dimpylate)	mg/kg	0.5	<0.5
		Dichlorvos	mg/kg	0.5	<0.5
		Dimethoate	mg/kg	0.5	<0.5
		Ethion	mg/kg	0.2	<0.2
		Fenitrothion	mg/kg	0.2	<0.2
		Malathion	mg/kg	0.2	<0.2
		Methidathion	mg/kg	0.5	<0.5
		Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	78
		d14-p-terphenyl (Surrogate)	%	-	78

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB268742.001	Naphthalene	mg/kg	0.1	<0.1
	2-methylnaphthalene	mg/kg	0.1	<0.1
	1-methylnaphthalene	mg/kg	0.1	<0.1
	Acenaphthylene	mg/kg	0.1	<0.1
	Acenaphthene	mg/kg	0.1	<0.1
	Fluorene	mg/kg	0.1	<0.1
	Phenanthrene	mg/kg	0.1	<0.1
	Anthracene	mg/kg	0.1	<0.1
	Fluoranthene	mg/kg	0.1	<0.1
	Pyrene	mg/kg	0.1	<0.1
	Benzo(a)anthracene	mg/kg	0.1	<0.1
	Chrysene	mg/kg	0.1	<0.1
	Benzo(a)pyrene	mg/kg	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB268742.001		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
		Benzo(ghi)perylene	mg/kg	0.1	<0.1
		Total PAH (18)	mg/kg	0.8	<0.8
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	80
		2-fluorobiphenyl (Surrogate)	%	-	78
		d14-p-terphenyl (Surrogate)	%	-	78

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB268742.001		Arochlor 1016	mg/kg	0.2	<0.2
		Arochlor 1221	mg/kg	0.2	<0.2
		Arochlor 1232	mg/kg	0.2	<0.2
		Arochlor 1242	mg/kg	0.2	<0.2
		Arochlor 1248	mg/kg	0.2	<0.2
		Arochlor 1254	mg/kg	0.2	<0.2
		Arochlor 1260	mg/kg	0.2	<0.2
		Arochlor 1262	mg/kg	0.2	<0.2
		Arochlor 1268	mg/kg	0.2	<0.2
		Total PCBs (Arochlors)	mg/kg	1	<1
	Surrogates	TCMX (Surrogate)	%	-	89

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number		Parameter	Units	LOR	Result
LB268764.001		Arsenic, As	mg/kg	1	<1
		Cadmium, Cd	mg/kg	0.3	<0.3
		Chromium, Cr	mg/kg	0.5	<0.5
		Copper, Cu	mg/kg	0.5	<0.5
		Nickel, Ni	mg/kg	0.5	<0.5
		Lead, Pb	mg/kg	1	<1
		Zinc, Zn	mg/kg	2	<2.0

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result
LB268742.001		TRH C10-C14	mg/kg	20	<20
		TRH C15-C28	mg/kg	45	<45
		TRH C29-C36	mg/kg	45	<45
		TRH C37-C40	mg/kg	100	<100
		TRH C10-C36 Total	mg/kg	110	<110

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB268746.001	Monocyclic Aromatic Hydrocarbons	Benzene	mg/kg	0.1	<0.1
		Toluene	mg/kg	0.1	<0.1
		Ethylbenzene	mg/kg	0.1	<0.1
		m/p-xylene	mg/kg	0.2	<0.2
		o-xylene	mg/kg	0.1	<0.1
	Polycyclic VOCs	Naphthalene (VOC)*	mg/kg	0.1	<0.1
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	80
		d8-toluene (Surrogate)	%	-	78
		Bromofluorobenzene (Surrogate)	%	-	78
	Totals	Total BTEX*	mg/kg	0.6	<0.6

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB268746.001		TRH C6-C9	mg/kg	20	<20
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	80

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552A.007	LB268767.020	Mercury	mg/kg	0.05	<0.05	<0.05	200	0
SE241585.010	LB268767.014	Mercury	mg/kg	0.05	<0.05	<0.05	200	0

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552A.007	LB268758.017	% Moisture	%w/w	1	54.6	54.2	32	1
SE241585.010	LB268758.011	% Moisture	%w/w	1	6.7	6.3	45	7

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552A.007	LB268742.020		Alpha BHC	mg/kg	0.1	<0.2	<0.2	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.2	<0.2	200	0
			Beta BHC	mg/kg	0.1	<0.2	<0.2	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.2	<0.2	200	0
			Delta BHC	mg/kg	0.1	<0.2	<0.2	200	0
			Heptachlor	mg/kg	0.1	<0.2	<0.2	200	0
			Aldrin	mg/kg	0.1	<0.2	<0.2	200	0
			Isodrin	mg/kg	0.1	<0.2	<0.2	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.2	<0.2	200	0
			Gamma Chlordane	mg/kg	0.1	<0.2	<0.2	200	0
			Alpha Chlordane	mg/kg	0.1	<0.2	<0.2	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.4	<0.4	200	0
			o,p'-DDE*	mg/kg	0.1	<0.2	<0.2	200	0
			p,p'-DDE	mg/kg	0.1	<0.2	<0.2	200	0
			Dieldrin	mg/kg	0.2	<0.4	<0.4	200	0
			Endrin	mg/kg	0.2	<0.4	<0.4	200	0
			Beta Endosulfan	mg/kg	0.2	<0.4	<0.4	200	0
			o,p'-DDD*	mg/kg	0.1	<0.2	<0.2	200	0
			p,p'-DDD	mg/kg	0.1	<0.2	<0.2	200	0
			Endrin aldehyde	mg/kg	0.1	<0.2	<0.2	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.2	<0.2	200	0
			o,p'-DDT*	mg/kg	0.1	<0.2	<0.2	200	0
			p,p'-DDT	mg/kg	0.1	<0.2	<0.2	200	0
			Endrin ketone	mg/kg	0.1	<0.2	<0.2	200	0
			Methoxychlor	mg/kg	0.1	<0.2	<0.2	200	0
			Mirex	mg/kg	0.1	<0.2	<0.2	200	0
			trans-Nonachlor	mg/kg	0.1	<0.2	<0.2	200	0
			Total CLP OC Pesticides	mg/kg	1	<2	<2	200	0
			Total OC VIC EPA	mg/kg	1	<2	<2	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.15	30	2
SE241585.010	LB268742.014		Alpha BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	200	0
			Beta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	<0.1	200	0
			Delta BHC	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Aldrin	mg/kg	0.1	<0.1	<0.1	200	0
			Isodrin	mg/kg	0.1	<0.1	<0.1	200	0
			Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	200	0
			Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	200	0
			Alpha Endosulfan	mg/kg	0.2	<0.2	<0.1	200	0
			o,p'-DDE*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDE	mg/kg	0.1	<0.1	<0.1	200	0
			Dieldrin	mg/kg	0.2	<0.2	<0.1	200	0
			Endrin	mg/kg	0.2	<0.2	<0.1	200	0
			Beta Endosulfan	mg/kg	0.2	<0.2	<0.1	200	0
			o,p'-DDD*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDD	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

OC Pesticides in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241585.010	LB268742.014		Endrin aldehyde	mg/kg	0.1	<0.1	<0.1	200	0
			Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	200	0
			o,p'-DDT*	mg/kg	0.1	<0.1	<0.1	200	0
			p,p'-DDT	mg/kg	0.1	<0.1	<0.1	200	0
			Endrin ketone	mg/kg	0.1	<0.1	<0.1	200	0
			Methoxychlor	mg/kg	0.1	<0.1	<0.1	200	0
			Mirex	mg/kg	0.1	<0.1	<0.1	200	0
			trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	200	0
			Total CLP OC Pesticides	mg/kg	1	<1	<1	200	0
			Total OC VIC EPA	mg/kg	1	<1	<1	200	0
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.15	0.14	30	7

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552A.007	LB268742.020		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
SE241585.010	LB268742.014		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	200	0
			Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	200	0
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	200	0
			Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	200	0
			Dichlorvos	mg/kg	0.5	<0.5	<0.5	200	0
			Dimethoate	mg/kg	0.5	<0.5	<0.5	200	0
			Ethion	mg/kg	0.2	<0.2	<0.2	200	0
			Fenitrothion	mg/kg	0.2	<0.2	<0.2	200	0
			Malathion	mg/kg	0.2	<0.2	<0.2	200	0
			Methidathion	mg/kg	0.5	<0.5	<0.5	200	0
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	200	0
			Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	200	0
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552A.007	LB268742.020	Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
		Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
		Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
		Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
		Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
		Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
		Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552A.007	LB268742.020		Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.5	0.5	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	3
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
SE241585.010	LB268742.014		Naphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthylene	mg/kg	0.1	<0.1	<0.1	200	0
			Acenaphthene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluorene	mg/kg	0.1	<0.1	<0.1	200	0
			Phenanthrene	mg/kg	0.1	<0.1	<0.1	200	0
			Anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Chrysene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=0*	mg/kg	0.2	<0.2	<0.2	200	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	mg/kg	0.2	<0.2	<0.2	175	0
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	mg/kg	0.3	<0.3	<0.3	134	0
			Total PAH (18)	mg/kg	0.8	<0.8	<0.8	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.4	30	2
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.4	30	0

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552A.007	LB268742.020		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	2
SE241585.010	LB268742.014		Arochlor 1016	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1221	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1232	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1242	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1248	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1254	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1260	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1262	mg/kg	0.2	<0.2	<0.2	200	0
			Arochlor 1268	mg/kg	0.2	<0.2	<0.2	200	0
			Total PCBs (Arochlors)	mg/kg	1	<1	<1	200	0
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0	30	7

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Original	Duplicate		Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552A.007	LB268764.020		Arsenic, As	mg/kg	1	2	2	78	11
			Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
			Chromium, Cr	mg/kg	0.5	56	54	31	3
			Copper, Cu	mg/kg	0.5	18	17	33	3
			Nickel, Ni	mg/kg	0.5	31	30	32	5
			Lead, Pb	mg/kg	1	8	8	43	7
			Zinc, Zn	mg/kg	2	34	33	36	3
SE241585.010	LB268764.014		Arsenic, As	mg/kg	1	3	3	61	8
			Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	200	0
			Chromium, Cr	mg/kg	0.5	29	28	32	4
			Copper, Cu	mg/kg	0.5	7.8	7.1	37	10
			Nickel, Ni	mg/kg	0.5	4.8	5.7	40	18
			Lead, Pb	mg/kg	1	14	15	37	10
			Zinc, Zn	mg/kg	2	13	12	46	6

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552A.007	LB268742.020		TRH C10-C14	mg/kg	20	<40	<40	139	0
			TRH C15-C28	mg/kg	45	<90	<90	130	0
			TRH C29-C36	mg/kg	45	<90	<90	102	0
			TRH C37-C40	mg/kg	100	<200	<200	200	0
			TRH C10-C36 Total	mg/kg	110	<220	<220	135	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<420	<420	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<50	<50	153	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<50	<50	186	0
			TRH >C16-C34 (F3)	mg/kg	90	<180	<180	124	0
			TRH >C34-C40 (F4)	mg/kg	120	<240	<240	200	0
SE241585.010	LB268742.014		TRH C10-C14	mg/kg	20	<20	<20	162	0
			TRH C15-C28	mg/kg	45	<45	<45	143	0
			TRH C29-C36	mg/kg	45	<45	<45	141	0
			TRH C10-C36 Total	mg/kg	110	<110	<110	200	0
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	200	0
		TRH F Bands	TRH >C10-C16	mg/kg	25	<25	<25	147	0
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	200	0
			TRH >C16-C34 (F3)	mg/kg	90	<90	<90	167	0
			TRH >C34-C40 (F4)	mg/kg	120	<120	<120	200	0

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552A.007	LB268746.020	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.6	10.4	50	8
			d8-toluene (Surrogate)	mg/kg	-	9.2	10.2	50	10
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.4	10.1	50	7
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0
SE241585.010	LB268746.014	Monocyclic	Benzene	mg/kg	0.1	<0.1	<0.1	200	0
		Aromatic	Toluene	mg/kg	0.1	<0.1	<0.1	200	0
			Ethylbenzene	mg/kg	0.1	<0.1	<0.1	200	0
			m/p-xylene	mg/kg	0.2	<0.2	<0.2	200	0
			o-xylene	mg/kg	0.1	<0.1	<0.1	200	0
		Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	<0.1	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	8.8	50	1
			d8-toluene (Surrogate)	mg/kg	-	8.6	8.6	50	0
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.7	8.8	50	1
		Totals	Total BTEX*	mg/kg	0.6	<0.6	<0.6	200	0
			Total Xylenes*	mg/kg	0.3	<0.3	<0.3	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Volatile Petroleum Hydrocarbons in Soil — **Method: ME-(AU)-[ENV]AN433**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241552A.007	LB268746.020		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.6	10.4	30	8
			d8-toluene (Surrogate)	mg/kg	-	9.2	10.2	30	10
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.4	10.1	30	7
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0
SE241585.010	LB268746.014		TRH C6-C10	mg/kg	25	<25	<25	200	0
			TRH C6-C9	mg/kg	20	<20	<20	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	8.8	8.8	30	1
			d8-toluene (Surrogate)	mg/kg	-	8.6	8.6	30	0
			Bromofluorobenzene (Surrogate)	mg/kg	-	8.7	8.8	30	1
		VPH F Bands	Benzene (F0)	mg/kg	0.1	<0.1	<0.1	200	0
			TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268767.002	Mercury	mg/kg	0.05	0.23	0.2	70 - 130	113

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268742.002		Delta BHC	mg/kg	0.1	0.2	0.2	60 - 140	80
		Heptachlor	mg/kg	0.1	0.2	0.2	60 - 140	84
		Aldrin	mg/kg	0.1	0.2	0.2	60 - 140	82
		Dieldrin	mg/kg	0.2	0.2	0.2	60 - 140	83
		Endrin	mg/kg	0.2	0.2	0.2	60 - 140	80
		p,p'-DDT	mg/kg	0.1	0.1	0.2	60 - 140	72
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.13	0.15	40 - 130	89

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268742.002		Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	2.0	2	60 - 140	98
		Diazinon (Dimpylate)	mg/kg	0.5	1.9	2	60 - 140	96
		Dichlorvos	mg/kg	0.5	1.7	2	60 - 140	83
		Ethion	mg/kg	0.2	1.7	2	60 - 140	83
	Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	74
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	74

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268742.002		Naphthalene	mg/kg	0.1	4.6	4	60 - 140	114
		Acenaphthylene	mg/kg	0.1	3.8	4	60 - 140	96
		Acenaphthene	mg/kg	0.1	4.7	4	60 - 140	118
		Phenanthrene	mg/kg	0.1	4.8	4	60 - 140	120
		Anthracene	mg/kg	0.1	4.7	4	60 - 140	117
		Fluoranthene	mg/kg	0.1	4.6	4	60 - 140	114
		Pyrene	mg/kg	0.1	4.5	4	60 - 140	113
		Benzo(a)pyrene	mg/kg	0.1	4.4	4	60 - 140	110
	Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	84
		2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	74
		d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.5	40 - 130	74

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268742.002	Arochlor 1260	mg/kg	0.2	0.5	0.4	60 - 140	116

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268764.002	Arsenic, As	mg/kg	1	350	318.22	80 - 120	109
	Cadmium, Cd	mg/kg	0.3	4.7	4.81	70 - 130	97
	Chromium, Cr	mg/kg	0.5	41	38.31	80 - 120	106
	Copper, Cu	mg/kg	0.5	310	290	80 - 120	108
	Nickel, Ni	mg/kg	0.5	190	187	80 - 120	103
	Lead, Pb	mg/kg	1	93	89.9	80 - 120	103
	Zinc, Zn	mg/kg	2	280	273	80 - 120	102

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268742.002		TRH C10-C14	mg/kg	20	47	40	60 - 140	117
		TRH C15-C28	mg/kg	45	49	40	60 - 140	122
		TRH C29-C36	mg/kg	45	<45	40	60 - 140	78
	TRH F Bands	TRH >C10-C16	mg/kg	25	47	40	60 - 140	116
		TRH >C16-C34 (F3)	mg/kg	90	<90	40	60 - 140	113
		TRH >C34-C40 (F4)	mg/kg	120	<120	20	60 - 140	71

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number	Parameter	Units	LOR

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268746.002	Monocyclic	Benzene	mg/kg	0.1	4.8	5	60 - 140	97
	Aromatic	Toluene	mg/kg	0.1	4.8	5	60 - 140	95
		Ethylbenzene	mg/kg	0.1	4.8	5	60 - 140	96
		m/p-xylene	mg/kg	0.2	9.3	10	60 - 140	93
		o-xylene	mg/kg	0.1	4.9	5	60 - 140	98
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.9	10	70 - 130	99
		d8-toluene (Surrogate)	mg/kg	-	9.5	10	70 - 130	95
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.0	10	70 - 130	90

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268746.002		TRH C6-C10	mg/kg	25	90	92.5	60 - 140	97
		TRH C6-C9	mg/kg	20	77	80	60 - 140	97
	Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	9.9	10	70 - 130	99
		Bromofluorobenzene (Surrogate)	mg/kg	-	9.0	10	70 - 130	90
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	61	62.5	60 - 140	98

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury in Soil

Method: ME-(AU)-[ENV]AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241585.001	LB268767.004	Mercury	mg/kg	0.05	0.24	0.0176256	0.2	110

OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241585.001	LB268742.004		Alpha BHC	mg/kg	0.1	<0.1	0	-	-
			Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	0.00157489264	-	-
			Beta BHC	mg/kg	0.1	<0.1	0	-	-
			Lindane (gamma BHC)	mg/kg	0.1	<0.1	0	-	-
			Delta BHC	mg/kg	0.1	0.2	0.00804667333	0.2	84
			Heptachlor	mg/kg	0.1	0.2	0	0.2	92
			Aldrin	mg/kg	0.1	0.2	0.00035287191	0.2	90
			Isodrin	mg/kg	0.1	<0.1	0.00105317671	-	-
			Heptachlor epoxide	mg/kg	0.1	<0.1	0	-	-
			Gamma Chlordane	mg/kg	0.1	<0.1	0	-	-
			Alpha Chlordane	mg/kg	0.1	<0.1	0.00028114363	-	-
			Alpha Endosulfan	mg/kg	0.2	<0.1	0.00028207118	-	-
			o,p'-DDE*	mg/kg	0.1	<0.1	0.00028196679	-	-
			p,p'-DDE	mg/kg	0.1	<0.1	0.00140664278	-	-
			Dieldrin	mg/kg	0.2	0.2	0.00224465051	0.2	89
			Endrin	mg/kg	0.2	0.2	0.00274921940	0.2	86
			Beta Endosulfan	mg/kg	0.2	<0.1	0	-	-
			o,p'-DDD*	mg/kg	0.1	<0.1	0	-	-
			p,p'-DDD	mg/kg	0.1	<0.1	0	-	-
			Endrin aldehyde	mg/kg	0.1	<0.1	0.00360210558	-	-
			Endosulfan sulphate	mg/kg	0.1	<0.1	0.00061314995	-	-
			o,p'-DDT*	mg/kg	0.1	<0.1	0.00066049302	-	-
			p,p'-DDT	mg/kg	0.1	0.2	0.00061059724	0.2	79
			Endrin ketone	mg/kg	0.1	<0.1	0.00173255843	-	-
			Methoxychlor	mg/kg	0.1	<0.1	0.00074807617	-	-
			Mirex	mg/kg	0.1	<0.1	0.00180830205	-	-
			trans-Nonachlor	mg/kg	0.1	<0.1	0.00091240185	-	-
			Total CLP OC Pesticides	mg/kg	1	1	0	-	-
			Total OC VIC EPA	mg/kg	1	1	0	-	-
		Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	mg/kg	-	0.14	0.13419397533	-	91

OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241585.001	LB268742.004		Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	0	-	-
			Bromophos Ethyl	mg/kg	0.2	<0.2	0	-	-
			Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	1.8	0	2	90
			Diazinon (Dimpylate)	mg/kg	0.5	1.8	0	2	90
			Dichlorvos	mg/kg	0.5	1.5	0	2	77
			Dimethoate	mg/kg	0.5	<0.5	0	-	-
			Ethion	mg/kg	0.2	1.5	0	2	77
			Fenitrothion	mg/kg	0.2	<0.2	0	-	-
			Malathion	mg/kg	0.2	<0.2	0	-	-
			Methidathion	mg/kg	0.5	<0.5	0	-	-
			Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	0	-	-
			Total OP Pesticides*	mg/kg	1.7	6.7	0	-	-
		Surrogates	2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.37	-	72
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.36	-	72

PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241585.001	LB268742.004	Naphthalene	mg/kg	0.1	4.5	0	4	113
		2-methylnaphthalene	mg/kg	0.1	<0.1	0	-	-
		1-methylnaphthalene	mg/kg	0.1	<0.1	0	-	-
		Acenaphthylene	mg/kg	0.1	3.7	0	4	94
		Acenaphthene	mg/kg	0.1	4.6	0	4	114
		Fluorene	mg/kg	0.1	<0.1	0	-	-

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241585.001	LB268742.004		Phenanthrene	mg/kg	0.1	4.6	0	4	116
			Anthracene	mg/kg	0.1	4.6	0	4	114
			Fluoranthene	mg/kg	0.1	4.4	0	4	110
			Pyrene	mg/kg	0.1	4.4	0	4	110
			Benzo(a)anthracene	mg/kg	0.1	<0.1	0	-	-
			Chrysene	mg/kg	0.1	<0.1	0	-	-
			Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	0	-	-
			Benzo(k)fluoranthene	mg/kg	0.1	<0.1	0	-	-
			Benzo(a)pyrene	mg/kg	0.1	4.3	0	4	109
			Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	0	-	-
			Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	0	-	-
			Benzo(ghi)perylene	mg/kg	0.1	<0.1	0	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=0*	TEQ (mg/kg)	0.2	4.3	0	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR/2*	TEQ (mg/kg)	0.2	4.4	0.121	-	-
			Carcinogenic PAHs, BaP TEQ <LOR=LOR*	TEQ (mg/kg)	0.3	4.5	0.242	-	-
			Total PAH (18)	mg/kg	0.8	35	0	-	-
		Surrogates	d5-nitrobenzene (Surrogate)	mg/kg	-	0.4	0.37	-	82
			2-fluorobiphenyl (Surrogate)	mg/kg	-	0.4	0.37	-	72
			d14-p-terphenyl (Surrogate)	mg/kg	-	0.4	0.36	-	72

PCBs in Soil

Method: ME-(AU)-[ENV]AN420

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241585.001	LB268742.004		Arochlor 1016	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1221	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1232	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1242	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1248	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1254	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1260	mg/kg	0.2	0.5	0	0.4	124
			Arochlor 1262	mg/kg	0.2	<0.2	0	-	-
			Arochlor 1268	mg/kg	0.2	<0.2	0	-	-
			Total PCBs (Arochlors)	mg/kg	1	<1	0	-	-
		Surrogates	TCMX (Surrogate)	mg/kg	-	0	0.13720421135	-	93

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241585.001	LB268764.004	Arsenic, As	mg/kg	1	49	9.38086184873	50	78
		Cadmium, Cd	mg/kg	0.3	44	0.15900504201	50	88
		Chromium, Cr	mg/kg	0.5	60	15.33941243697	50	90
		Copper, Cu	mg/kg	0.5	56	15.52455529411	50	82
		Nickel, Ni	mg/kg	0.5	56	13.65962218487	50	85
		Lead, Pb	mg/kg	1	73	30.71585344537	50	85
		Zinc, Zn	mg/kg	2	73	32.9928927731(	50	80

TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241585.001	LB268742.004		TRH C10-C14	mg/kg	20	51	5.94417478991	40	113
			TRH C15-C28	mg/kg	45	50	7.43620840336	40	107
			TRH C29-C36	mg/kg	45	<45	2.77932100840	40	87
			TRH C10-C36 Total	mg/kg	110	<110	0	-	-
			TRH >C10-C40 Total (F bands)	mg/kg	210	<210	0	-	-
		TRH F Bands	TRH >C10-C16	mg/kg	25	52	5.43884369747	40	116
			TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	52	0	-	-
			TRH >C16-C34 (F3)	mg/kg	90	<90	9.22664873949	40	102
			TRH >C34-C40 (F4)	mg/kg	120	<120	1.09561008403	-	-

VOC's in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241585.001	LB268746.004	Monocyclic Aromatic	Benzene	mg/kg	0.1	5.3	0.00555750766	5	105
			Toluene	mg/kg	0.1	5.2	0.02159416107	5	103
			Ethylbenzene	mg/kg	0.1	5.3	0.01705122077	5	106
			m/p-xylene	mg/kg	0.2	10	0.04746184499	10	102
			o-xylene	mg/kg	0.1	5.5	0.01926281824	5	109

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241585.001	LB268746.004	Polycyclic	Naphthalene (VOC)*	mg/kg	0.1	<0.1	0.00328497481	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.3	8.91923671643	10	103
			d8-toluene (Surrogate)	mg/kg	-	9.9	8.81653247665	10	99
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.6	9.03272013374	10	96
		Totals	Total BTEX*	mg/kg	0.6	31	0	-	-
			Total Xylenes*	mg/kg	0.3	16	0.06672466324	-	-

Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241585.001	LB268746.004		TRH C6-C10	mg/kg	25	94	0.73653031067	92.5	100
			TRH C6-C9	mg/kg	20	81	0.61317899954	80	100
		Surrogates	d4-1,2-dichloroethane (Surrogate)	mg/kg	-	10.3	8.91923671643	10	103
			d8-toluene (Surrogate)	mg/kg	-	9.9	8.81653247665	10	99
			Bromofluorobenzene (Surrogate)	mg/kg	-	9.6	9.03272013374	-	96
		VPH F	Benzene (F0)	mg/kg	0.1	5.3	0.00555750766	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	mg/kg	25	62	0.73653031067	62.5	98

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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12/1/23 @ 2:10pm

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

Page_____of ____

SGS Environmental Services

Unit 16, 33 Maddox Street

Alexandria NSW 2015

Telephone No: (02) 85940400

Facsimile No: (02) 85940499

Email: au.samplereceipt.sydney@sgs.com

Company Name: K2 Consulting Group

Address: Suite 222 (Building B)

20 Lexington Drive, Bella Vista NSW 2153

Contact Name: Kannan Kaliappan

Project Name/No: ST-01-1533 (515 Crookwell Road, Kingsdale)

Purchase Order No:

Results Required By:

Telephone: 0449 669 559

Facsimile:

Email Results: kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

Client Sample ID	Date Sampled	Lab sample ID	CL17 (BTEXN/TRH/PAH/OC/OP/PCB/8HM)
ST-01-1533-WD1 (Sediment)	10/01/2023	7	X

SGS EHS Alexandria Laboratory

SE241552A COC

Received: 12 – Jan – 2023

Relinquished By: Sirish Baniya	Date/Time: 11/01/2023	Received By:	Date/Time 12/1/23 @ 5:50
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

source:SE_Autoscan.pdf page:1 SGS Ref: SE241552A_COC

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Kannan Kaliappan	Manager	Huong Crawford
Client	K2 CONSULTING GROUP	Laboratory	SGS Alexandria Environmental
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Email	kannan@k2consultinggroup.com.au	Email	au.environmental.sydney@sgs.com
Project	**ST-01-1533(515 Crookwell Road, Kingsdale**	SGS Reference	**SE241552 R0**
Order Number	**ST-01-1533**	Date Received	11 Jan 2023
Samples	6	Date Reported	18 Jan 2023

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Ly Kim HA
Organic Section Head

Teresa NGUYEN
Organic Chemist

Parameter	Units	LOR	Sample Number: SE241552.001 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: ST-01-1533-GW4	SE241552.002 Water 10 Jan 2023 ST-01-1533-GW5	SE241552.003 Water 10 Jan 2023 ST-01-1533-WD1	SE241552.004 Water 10 Jan 2023 ST-01-1533-WD2
VOCs in Water Method: AN433 Tested: 17/1/2023						
Monocyclic Aromatic Hydrocarbons						
Benzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Polycyclic VOCs						
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Surrogates						
d4-1,2-dichloroethane (Surrogate)	%	-	**95**	**96**	**95**	**93**
d8-toluene (Surrogate)	%	-	**99**	**101**	**99**	**100**
Bromofluorobenzene (Surrogate)	%	-	**108**	**108**	**105**	**105**
Totals						
Total BTEX	µg/L	3	<3	<3	<3	<3
Total Xylenes	µg/L	1.5	<1.5	<1.5	<1.5	<1.5
Volatile Petroleum Hydrocarbons in Water Method: AN433 Tested: 17/1/2023						
TRH C6-C10	µg/L	50	<50	<50	<50	<50
TRH C6-C9	µg/L	40	<40	<40	<40	<40
Surrogates						
d4-1,2-dichloroethane (Surrogate)	%	-	**95**	**96**	**95**	**93**
d8-toluene (Surrogate)	%	-	**99**	**101**	**99**	**100**
Bromofluorobenzene (Surrogate)	%	-	**108**	**108**	**105**	**105**
VPH F Bands						
Benzene (F0)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	<50	<50

Parameter	Units	LOR	Sample Number: SE241552.001 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: ST-01-1533-GW4	SE241552.002 Water 10 Jan 2023 ST-01-1533-GW5	SE241552.003 Water 10 Jan 2023 ST-01-1533-WD1	SE241552.004 Water 10 Jan 2023 ST-01-1533-WD2
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 Tested: 12/1/2023						
TRH C10-C14	µg/L	50	<50	<50	<50	<50
TRH C15-C28	µg/L	200	<200	<200	<200	<200
TRH C29-C36	µg/L	200	<200	<200	<200	<200
TRH C10-C40	µg/L	320	-	-	-	-
TRH F Bands						
TRH >C10-C16	µg/L	60	<60	<60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500	<500	<500
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 Tested: 12/1/2023						
Naphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1	<1	<1
Surrogates						
d5-nitrobenzene (Surrogate)	%	-	**48**	**76**	**46**	**60**
2-fluorobiphenyl (Surrogate)	%	-	**50**	**80**	**52**	**68**
d14-p-terphenyl (Surrogate)	%	-	**72**	**92**	**66**	**88**
OC Pesticides in Water Method: AN420 Tested: 12/1/2023						
Alpha BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1	<0.1	<0.1	<0.1

Parameter	Units	LOR	Sample Number: SE241552.001 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: ST-01-1533-GW4	SE241552.002 Water 10 Jan 2023 ST-01-1533-GW5	SE241552.003 Water 10 Jan 2023 ST-01-1533-WD1	SE241552.004 Water 10 Jan 2023 ST-01-1533-WD2
OC Pesticides in Water Method: AN420 Tested: 12/1/2023 (continued)						
Endrin ketone	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Total OC	µg/L	1	<1	<1	<1	<1
Total OC	µg/L	1	<1	<1	<1	<1
Surrogates						
Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	**59**	**83**	**55**	**76**
OP Pesticides in Water Method: AN420 Tested: 12/1/2023						
Azinphos-methyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dichlorvos	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Fenitrothion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2	<0.2	<0.2
Surrogates						
2-fluorobiphenyl (Surrogate)	%	-	**50**	**80**	**52**	**68**
d14-p-terphenyl (Surrogate)	%	-	**72**	**92**	**66**	**88**
PCBs in Water Method: AN420 Tested: 12/1/2023						
Arochlor 1016	µg/L	1	<1	<1	<1	<1
Arochlor 1221	µg/L	1	<1	<1	<1	<1
Arochlor 1232	µg/L	1	<1	<1	<1	<1
Arochlor 1242	µg/L	1	<1	<1	<1	<1
Arochlor 1248	µg/L	1	<1	<1	<1	<1
Arochlor 1254	µg/L	1	<1	<1	<1	<1
Arochlor 1260	µg/L	1	<1	<1	<1	<1
Arochlor 1262	µg/L	1	<1	<1	<1	<1
Arochlor 1268	µg/L	1	<1	<1	<1	<1
Total Arochlors*	µg/L	5	<5	<5	<5	<5
Surrogates						
TCMX (Surrogate)	%	-	**56**	**79**	**51**	**72**

Parameter	Units	LOR	Sample Number: SE241552.001 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: ST-01-1533-GW4	SE241552.002 Water 10 Jan 2023 ST-01-1533-GW5	SE241552.003 Water 10 Jan 2023 ST-01-1533-WD1	SE241552.004 Water 10 Jan 2023 ST-01-1533-WD2
Trace Metals (Dissolved) in Water by ICPMS Method: AN318 Tested: 16/1/2023						
Arsenic	µg/L	1	<1	<1	**2**	**2**
Cadmium	µg/L	0.1	<0.1	<0.1	<0.1	<0.1
Chromium	µg/L	1	<1	**11**	**2**	<1
Copper	µg/L	1	<1	<1	**1**	<1
Lead	µg/L	1	<1	<1	<1	<1
Nickel	µg/L	1	**2**	**1**	**5**	**1**
Zinc	µg/L	5	<5	<5	<5	<5
Mercury (dissolved) in Water Method: AN311(Perth)/AN312 Tested: 16/1/2023						
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Parameter	Units	LOR	Sample Number: SE241552.005 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: Trip Spike	Sample Number: SE241552.006 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: Trip Blank
VOCs in Water Method: AN433 Tested: 17/1/2023				
Monocyclic Aromatic Hydrocarbons				
Benzene	µg/L	0.5	[99%]	<0.5
Toluene	µg/L	0.5	[99%]	<0.5
Ethylbenzene	µg/L	0.5	[97%]	<0.5
m/p-xylene	µg/L	1	[98%]	<1
o-xylene	µg/L	0.5	[98%]	<0.5
Polycyclic VOCs				
Naphthalene (VOC)*	µg/L	0.5	[96%]	<0.5
Surrogates				
d4-1,2-dichloroethane (Surrogate)	%	-	**102**	**95**
d8-toluene (Surrogate)	%	-	**103**	**98**
Bromofluorobenzene (Surrogate)	%	-	**108**	**107**
Totals				
Total BTEX	µg/L	3	-	<3
Total Xylenes	µg/L	1.5	-	<1.5
Volatile Petroleum Hydrocarbons in Water Method: AN433 Tested: 17/1/2023				
TRH C6-C10	µg/L	50	-	<50
TRH C6-C9	µg/L	40	-	<40
Surrogates				
d4-1,2-dichloroethane (Surrogate)	%	-	-	**95**
d8-toluene (Surrogate)	%	-	-	**98**
Bromofluorobenzene (Surrogate)	%	-	-	**107**
VPH F Bands				
Benzene (F0)	µg/L	0.5	-	<0.5
TRH C6-C10 minus BTEX (F1)	µg/L	50	-	<50

Parameter	Units	LOR	Sample Number: SE241552.005 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: Trip Spike	Sample Number: SE241552.006 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: Trip Blank
TRH (Total Recoverable Hydrocarbons) in Water Method: AN403 Tested: 13/1/2023				
TRH C10-C14	µg/L	50	-	-
TRH C15-C28	µg/L	200	-	-
TRH C29-C36	µg/L	200	-	-
TRH C10-C40	µg/L	320	-	-
TRH F Bands				
TRH >C10-C16	µg/L	60	-	-
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	-	-
TRH >C16-C34 (F3)	µg/L	500	-	-
TRH >C34-C40 (F4)	µg/L	500	-	-
PAH (Polynuclear Aromatic Hydrocarbons) in Water Method: AN420 Tested: 17/1/2023				
Naphthalene	µg/L	0.1	-	-
2-methylnaphthalene	µg/L	0.1	-	-
1-methylnaphthalene	µg/L	0.1	-	-
Acenaphthylene	µg/L	0.1	-	-
Acenaphthene	µg/L	0.1	-	-
Fluorene	µg/L	0.1	-	-
Phenanthrene	µg/L	0.1	-	-
Anthracene	µg/L	0.1	-	-
Fluoranthene	µg/L	0.1	-	-
Pyrene	µg/L	0.1	-	-
Benzo(a)anthracene	µg/L	0.1	-	-
Chrysene	µg/L	0.1	-	-
Benzo(b&j)fluoranthene	µg/L	0.1	-	-
Benzo(k)fluoranthene	µg/L	0.1	-	-
Benzo(a)pyrene	µg/L	0.1	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.1	-	-
Dibenzo(ah)anthracene	µg/L	0.1	-	-
Benzo(ghi)perylene	µg/L	0.1	-	-
Total PAH (18)	µg/L	1	-	-
Surrogates				
d5-nitrobenzene (Surrogate)	%	-	-	-
2-fluorobiphenyl (Surrogate)	%	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-
OC Pesticides in Water Method: AN420 Tested: 17/1/2023				
Alpha BHC	µg/L	0.1	-	-
Hexachlorobenzene (HCB)	µg/L	0.1	-	-
Beta BHC	µg/L	0.1	-	-
Lindane (gamma BHC)	µg/L	0.1	-	-
Delta BHC	µg/L	0.1	-	-
Heptachlor	µg/L	0.1	-	-
Aldrin	µg/L	0.1	-	-
Isodrin	µg/L	0.1	-	-
Heptachlor epoxide	µg/L	0.1	-	-
Gamma Chlordane	µg/L	0.1	-	-
Alpha Chlordane	µg/L	0.1	-	-
Alpha Endosulfan	µg/L	0.1	-	-
o,p'-DDE	µg/L	0.1	-	-
p,p'-DDE	µg/L	0.1	-	-
Dieldrin	µg/L	0.1	-	-
Endrin	µg/L	0.1	-	-
Beta Endosulfan	µg/L	0.1	-	-
o,p'-DDD	µg/L	0.1	-	-
p,p'-DDD	µg/L	0.1	-	-
Endrin aldehyde	µg/L	0.1	-	-

Parameter	Units	LOR	Sample Number Sample Matrix Sample Date Sample Name SE241552.005 Water 10 Jan 2023 Trip Spike	SE241552.006 Water 10 Jan 2023 Trip Blank
OC Pesticides in Water Method: AN420 Tested: 12/1/2023 (continued)				
Endosulfan sulphate	µg/L	0.1	-	-
o,p'-DDT	µg/L	0.1	-	-
p,p'-DDT	µg/L	0.1	-	-
Endrin ketone	µg/L	0.1	-	-
Methoxychlor	µg/L	0.1	-	-
Mirex	µg/L	0.1	-	-
trans-Nonachlor	µg/L	0.1	-	-
Total OC	µg/L	1	-	-
Total OC	µg/L	1	-	-
Surrogates				
Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	-	-
OP Pesticides in Water Method: AN420 Tested: 18/1/2023				
Azinphos-methyl	µg/L	0.2	-	-
Bromophos Ethyl	µg/L	0.2	-	-
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	-	-
Diazinon (Dimpylate)	µg/L	0.5	-	-
Dichlorvos	µg/L	0.5	-	-
Dimethoate	µg/L	0.5	-	-
Ethion	µg/L	0.2	-	-
Fenitrothion	µg/L	0.2	-	-
Malathion	µg/L	0.2	-	-
Methidathion	µg/L	0.5	-	-
Parathion-ethyl (Parathion)	µg/L	0.2	-	-
Surrogates				
2-fluorobiphenyl (Surrogate)	%	-	-	-
d14-p-terphenyl (Surrogate)	%	-	-	-

Parameter	Units	LOR	Sample Number: SE241552.005 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: Trip Spike	Sample Number: SE241552.006 Sample Matrix: Water Sample Date: 10 Jan 2023 Sample Name: Trip Blank
PCBs in Water Method: AN420 Tested: 18/1/2023				
Arochlor 1016	µg/L	1	-	-
Arochlor 1221	µg/L	1	-	-
Arochlor 1232	µg/L	1	-	-
Arochlor 1242	µg/L	1	-	-
Arochlor 1248	µg/L	1	-	-
Arochlor 1254	µg/L	1	-	-
Arochlor 1260	µg/L	1	-	-
Arochlor 1262	µg/L	1	-	-
Arochlor 1268	µg/L	1	-	-
Total Arochlors*	µg/L	5	-	-
Surrogates				
TCMX (Surrogate)	%	-	-	-
Trace Metals (Dissolved) in Water by ICPMS Method: AN318 Tested: 16/1/2023				
Arsenic	µg/L	1	-	-
Cadmium	µg/L	0.1	-	-
Chromium	µg/L	1	-	-
Copper	µg/L	1	-	-
Lead	µg/L	1	-	-
Nickel	µg/L	1	-	-
Zinc	µg/L	5	-	-
Mercury (dissolved) in Water Method: AN311(Perth)/AN312 Tested: 17/1/2023				
Mercury	mg/L	0.0001	-	-

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Mercury (dissolved) in Water **Method: ME-(AU)-[ENV]AN311(Perth)/AN312**

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Mercury	LB268775	mg/L	0.0001	<0.0001	113%

OC Pesticides in Water **Method: ME-(AU)-[ENV]AN420**

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Alpha BHC	LB268659	µg/L	0.1	<0.1	NA
Hexachlorobenzene (HCB)	LB268659	µg/L	0.1	<0.1	NA
Beta BHC	LB268659	µg/L	0.1	<0.1	NA
Lindane (gamma BHC)	LB268659	µg/L	0.1	<0.1	NA
Delta BHC	LB268659	µg/L	0.1	<0.1	85%
Heptachlor	LB268659	µg/L	0.1	<0.1	84%
Aldrin	LB268659	µg/L	0.1	<0.1	72%
Isodrin	LB268659	µg/L	0.1	<0.1	NA
Heptachlor epoxide	LB268659	µg/L	0.1	<0.1	NA
Gamma Chlordane	LB268659	µg/L	0.1	<0.1	NA
Alpha Chlordane	LB268659	µg/L	0.1	<0.1	NA
Alpha Endosulfan	LB268659	µg/L	0.1	<0.1	NA
o,p'-DDE	LB268659	µg/L	0.1	<0.1	NA
p,p'-DDE	LB268659	µg/L	0.1	<0.1	NA
Dieldrin	LB268659	µg/L	0.1	<0.1	85%
Endrin	LB268659	µg/L	0.1	<0.1	93%
Beta Endosulfan	LB268659	µg/L	0.1	<0.1	NA
o,p'-DDD	LB268659	µg/L	0.1	<0.1	NA
p,p'-DDD	LB268659	µg/L	0.1	<0.1	NA
Endrin aldehyde	LB268659	µg/L	0.1	<0.1	NA
Endosulfan sulphate	LB268659	µg/L	0.1	<0.1	NA
o,p'-DDT	LB268659	µg/L	0.1	<0.1	NA
p,p'-DDT	LB268659	µg/L	0.1	<0.1	95%
Endrin ketone	LB268659	µg/L	0.1	<0.1	NA
Methoxychlor	LB268659	µg/L	0.1	<0.1	NA
Mirex	LB268659	µg/L	0.1	<0.1	NA
trans-Nonachlor	LB268659	µg/L	0.1	<0.1	NA
Total OC	LB268659	µg/L	1	<1	
Total OC	LB268659	µg/L	1	<1	

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Tetrachloro-m-xylene (TCMX) (Surrogate)	LB268659	%	-	50%	71%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

OP Pesticides in Water **Method: ME-(AU)-[ENV]AN420**

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Azinphos-methyl	LB268659	µg/L	0.2	<0.2	NA
Bromophos Ethyl	LB268659	µg/L	0.2	<0.2	NA
Chlorpyrifos (Chlorpyrifos Ethyl)	LB268659	µg/L	0.2	<0.2	97%
Diazinon (Dimpylate)	LB268659	µg/L	0.5	<0.5	101%
Dichlorvos	LB268659	µg/L	0.5	<0.5	86%
Dimethoate	LB268659	µg/L	0.5	<0.5	NA
Ethion	LB268659	µg/L	0.2	<0.2	99%
Fenitrothion	LB268659	µg/L	0.2	<0.2	NA
Malathion	LB268659	µg/L	0.2	<0.2	NA
Methidathion	LB268659	µg/L	0.5	<0.5	NA
Parathion-ethyl (Parathion)	LB268659	µg/L	0.2	<0.2	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
2-fluorobiphenyl (Surrogate)	LB268659	%	-	70%	62%
d14-p-terphenyl (Surrogate)	LB268659	%	-	90%	94%

PAH (Polynuclear Aromatic Hydrocarbons) in Water **Method: ME-(AU)-[ENV]AN420**

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Naphthalene	LB268659	µg/L	0.1	<0.1	79%
2-methylnaphthalene	LB268659	µg/L	0.1	<0.1	NA
1-methylnaphthalene	LB268659	µg/L	0.1	<0.1	NA
Acenaphthylene	LB268659	µg/L	0.1	<0.1	83%
Acenaphthene	LB268659	µg/L	0.1	<0.1	91%
Fluorene	LB268659	µg/L	0.1	<0.1	NA
Phenanthrene	LB268659	µg/L	0.1	<0.1	97%
Anthracene	LB268659	µg/L	0.1	<0.1	91%
Fluoranthene	LB268659	µg/L	0.1	<0.1	91%
Pyrene	LB268659	µg/L	0.1	<0.1	91%
Benzo(a)anthracene	LB268659	µg/L	0.1	<0.1	NA
Chrysene	LB268659	µg/L	0.1	<0.1	NA
Benzo(b&j)fluoranthene	LB268659	µg/L	0.1	<0.1	NA
Benzo(k)fluoranthene	LB268659	µg/L	0.1	<0.1	NA
Benzo(a)pyrene	LB268659	µg/L	0.1	<0.1	93%
Indeno(1,2,3-cd)pyrene	LB268659	µg/L	0.1	<0.1	NA
Dibenzo(ah)anthracene	LB268659	µg/L	0.1	<0.1	NA
Benzo(ghi)perylene	LB268659	µg/L	0.1	<0.1	NA
Total PAH (18)	LB268659	µg/L	1	<1	

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d5-nitrobenzene (Surrogate)	LB268659	%	-	72%	56%
2-fluorobiphenyl (Surrogate)	LB268659	%	-	70%	62%
d14-p-terphenyl (Surrogate)	LB268659	%	-	90%	94%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

PCBs in Water Method: ME-(AU)-[ENV]AN420

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Arochlor 1016	LB268659	µg/L	1	<1	NA
Arochlor 1221	LB268659	µg/L	1	<1	NA
Arochlor 1232	LB268659	µg/L	1	<1	NA
Arochlor 1242	LB268659	µg/L	1	<1	NA
Arochlor 1248	LB268659	µg/L	1	<1	NA
Arochlor 1254	LB268659	µg/L	1	<1	NA
Arochlor 1260	LB268659	µg/L	1	<1	106%
Arochlor 1262	LB268659	µg/L	1	<1	NA
Arochlor 1268	LB268659	µg/L	1	<1	NA
Total Arochlors*	LB268659	µg/L	5	<5	

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
TCMX (Surrogate)	LB268659	%	-	46%	68%

Trace Metals (Dissolved) in Water by ICPMS Method: ME-(AU)-[ENV]AN318

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Arsenic	LB268769	µg/L	1	<1	0%	104 - 113%	115%
Cadmium	LB268769	µg/L	0.1	<0.1	0%	100 - 103%	102%
Chromium	LB268769	µg/L	1	<1	0%	100 - 104%	101%
Copper	LB268769	µg/L	1	<1	0 - 12%	102 - 103%	96%
Lead	LB268769	µg/L	1	<1	0%	99 - 100%	100%
Nickel	LB268769	µg/L	1	<1	0 - 4%	104 - 106%	99%
Zinc	LB268769	µg/L	5	<5	0 - 14%	100 - 102%	99%

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

TRH (Total Recoverable Hydrocarbons) in Water Method: ME-(AU)-[ENV]AN403

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
TRH C10-C14	LB268659	µg/L	50	<50	0 - 39%	72%
TRH C15-C28	LB268659	µg/L	200	<200	0 - 19%	93%
TRH C29-C36	LB268659	µg/L	200	<200	0%	87%

TRH F Bands

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery
TRH >C10-C16	LB268659	µg/L	60	<60	0 - 39%	83%
TRH >C10-C16 - Naphthalene (F2)	LB268659	µg/L	60	<60	0%	NA
TRH >C16-C34 (F3)	LB268659	µg/L	500	<500	0%	94%
TRH >C34-C40 (F4)	LB268659	µg/L	500	<500	0%	87%

VOCs in Water Method: ME-(AU)-[ENV]AN433

Monocyclic Aromatic Hydrocarbons

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Benzene	LB268931	µg/L	0.5	<0.5	0%	117%	111%
Toluene	LB268931	µg/L	0.5	<0.5	0%	116%	111%
Ethylbenzene	LB268931	µg/L	0.5	<0.5	0%	108%	113%
m/p-xylene	LB268931	µg/L	1	<1	0%	108%	111%
o-xylene	LB268931	µg/L	0.5	<0.5	0%	110%	114%

Polycyclic VOCs

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Naphthalene (VOC)*	LB268931	µg/L	0.5	<0.5	0%	NA	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
d4-1,2-dichloroethane (Surrogate)	LB268931	%	-	93%	0 - 2%	104%	103%
d8-toluene (Surrogate)	LB268931	%	-	96%	3 - 4%	109%	104%
Bromofluorobenzene (Surrogate)	LB268931	%	-	103%	1 - 4%	106%	102%

Totals

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Total BTEX	LB268931	µg/L	3	<3	0%	NA	NA
Total Xylenes	LB268931	µg/L	1.5	<1.5			

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Volatile Petroleum Hydrocarbons in Water **Method: ME-(AU)-[ENV]AN433**

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
TRH C6-C10	LB268931	µg/L	50	<50	0%	85%	98%
TRH C6-C9	LB268931	µg/L	40	<40	0%	86%	98%

Surrogates

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
d4-1,2-dichloroethane (Surrogate)	LB268931	%	-	93%	0 - 2%	104%	103%
d8-toluene (Surrogate)	LB268931	%	-	96%	3 - 4%	109%	104%
Bromofluorobenzene (Surrogate)	LB268931	%	-	103%	1 - 4%	106%	102%

VPH F Bands

Parameter	QC Reference	Units	LOR	MB	DUP %RPD	LCS %Recovery	MS %Recovery
Benzene (F0)	LB268931	µg/L	0.5		0%	NA	NA
TRH C6-C10 minus BTEX (F1)	LB268931	µg/L	50	<50	0%	79%	97%

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used.
AN403	Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoveerable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting .
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
		QFL	QC result is below the lower tolerance
**	Indicative data, theoretical holding time exceeded.	-	The sample was not analysed for this analyte
***	Indicates that both * and ** apply.	NVL	Not Validated

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calcuated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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STATEMENT OF QA/QC PERFORMANCE

SE241552 R0

CLIENT DETAILS

Contact	Kannan Kaliappan
Client	K2 CONSULTING GROUP
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Telephone	61 8 00 523 000
Facsimile	(Not specified)
Email	kannan@k2consultinggroup.com.au
Project	**ST-01-1533(515 Crookwell Road, Kingsdale**
Order Number	**ST-01-1533**
Samples	6

LABORATORY DETAILS

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Laboratory	SGS Alexandria Environmental
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Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE241552 R0**
Date Received	11 Jan 2023
Date Reported	18 Jan 2023

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Sample counts by matrix	6 Water	Type of documentation received	COC
Date documentation received	11/1/2023	Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	10.0C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	Ice	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE241552 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE241552.001	LB268775	10 Jan 2023	11 Jan 2023	07 Feb 2023	16 Jan 2023	07 Feb 2023	17 Jan 2023
ST-01-1533-GW5	SE241552.002	LB268775	10 Jan 2023	11 Jan 2023	07 Feb 2023	16 Jan 2023	07 Feb 2023	17 Jan 2023
ST-01-1533-WD1	SE241552.003	LB268775	10 Jan 2023	11 Jan 2023	07 Feb 2023	16 Jan 2023	07 Feb 2023	17 Jan 2023
ST-01-1533-WD2	SE241552.004	LB268775	10 Jan 2023	11 Jan 2023	07 Feb 2023	16 Jan 2023	07 Feb 2023	17 Jan 2023
Trip Blank	SE241552.006	LB268775	10 Jan 2023	11 Jan 2023	07 Feb 2023	16 Jan 2023	07 Feb 2023	17 Jan 2023

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE241552.001	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-GW5	SE241552.002	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-WD1	SE241552.003	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-WD2	SE241552.004	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
Trip Blank	SE241552.006	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE241552.001	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-GW5	SE241552.002	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-WD1	SE241552.003	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-WD2	SE241552.004	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
Trip Blank	SE241552.006	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE241552.001	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-GW5	SE241552.002	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-WD1	SE241552.003	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-WD2	SE241552.004	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
Trip Blank	SE241552.006	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE241552.001	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-GW5	SE241552.002	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-WD1	SE241552.003	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-WD2	SE241552.004	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
Trip Blank	SE241552.006	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE241552.001	LB268769	10 Jan 2023	11 Jan 2023	09 Jul 2023	16 Jan 2023	09 Jul 2023	16 Jan 2023
ST-01-1533-GW5	SE241552.002	LB268769	10 Jan 2023	11 Jan 2023	09 Jul 2023	16 Jan 2023	09 Jul 2023	16 Jan 2023
ST-01-1533-WD1	SE241552.003	LB268769	10 Jan 2023	11 Jan 2023	09 Jul 2023	16 Jan 2023	09 Jul 2023	16 Jan 2023
ST-01-1533-WD2	SE241552.004	LB268769	10 Jan 2023	11 Jan 2023	09 Jul 2023	16 Jan 2023	09 Jul 2023	16 Jan 2023
Trip Blank	SE241552.006	LB268769	10 Jan 2023	11 Jan 2023	09 Jul 2023	16 Jan 2023	09 Jul 2023	16 Jan 2023

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE241552.001	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-GW5	SE241552.002	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-WD1	SE241552.003	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
ST-01-1533-WD2	SE241552.004	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	18 Jan 2023
Trip Blank	SE241552.006	LB268659	10 Jan 2023	11 Jan 2023	17 Jan 2023	12 Jan 2023	21 Feb 2023	13 Jan 2023

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE241552.001	LB268931	10 Jan 2023	11 Jan 2023	24 Jan 2023	17 Jan 2023	24 Jan 2023	18 Jan 2023
ST-01-1533-GW5	SE241552.002	LB268931	10 Jan 2023	11 Jan 2023	24 Jan 2023	17 Jan 2023	24 Jan 2023	18 Jan 2023
ST-01-1533-WD1	SE241552.003	LB268931	10 Jan 2023	11 Jan 2023	24 Jan 2023	17 Jan 2023	24 Jan 2023	18 Jan 2023
ST-01-1533-WD2	SE241552.004	LB268931	10 Jan 2023	11 Jan 2023	24 Jan 2023	17 Jan 2023	24 Jan 2023	18 Jan 2023
Trip Spike	SE241552.005	LB268931	10 Jan 2023	11 Jan 2023	24 Jan 2023	17 Jan 2023	24 Jan 2023	18 Jan 2023
Trip Blank	SE241552.006	LB268931	10 Jan 2023	11 Jan 2023	24 Jan 2023	17 Jan 2023	24 Jan 2023	18 Jan 2023

HOLDING TIME SUMMARY

SE241552 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Volatile Petroleum Hydrocarbons in Water — **Method: ME-(AU)-[ENV]AN433**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE241552.001	LB268931	10 Jan 2023	11 Jan 2023	24 Jan 2023	17 Jan 2023	24 Jan 2023	18 Jan 2023
ST-01-1533-GW5	SE241552.002	LB268931	10 Jan 2023	11 Jan 2023	24 Jan 2023	17 Jan 2023	24 Jan 2023	18 Jan 2023
ST-01-1533-WD1	SE241552.003	LB268931	10 Jan 2023	11 Jan 2023	24 Jan 2023	17 Jan 2023	24 Jan 2023	18 Jan 2023
ST-01-1533-WD2	SE241552.004	LB268931	10 Jan 2023	11 Jan 2023	24 Jan 2023	17 Jan 2023	24 Jan 2023	18 Jan 2023
Trip Spike	SE241552.005	LB268931	10 Jan 2023	11 Jan 2023	24 Jan 2023	17 Jan 2023	24 Jan 2023	18 Jan 2023
Trip Blank	SE241552.006	LB268931	10 Jan 2023	11 Jan 2023	24 Jan 2023	17 Jan 2023	24 Jan 2023	18 Jan 2023

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	ST-01-1533-GW4	SE241552.001	%	40 - 130%	59
	ST-01-1533-GW5	SE241552.002	%	40 - 130%	83
	ST-01-1533-WD1	SE241552.003	%	40 - 130%	55
	ST-01-1533-WD2	SE241552.004	%	40 - 130%	76

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	ST-01-1533-GW4	SE241552.001	%	40 - 130%	50
	ST-01-1533-GW5	SE241552.002	%	40 - 130%	80
	ST-01-1533-WD1	SE241552.003	%	40 - 130%	52
	ST-01-1533-WD2	SE241552.004	%	40 - 130%	68
d14-p-terphenyl (Surrogate)	ST-01-1533-GW4	SE241552.001	%	40 - 130%	72
	ST-01-1533-GW5	SE241552.002	%	40 - 130%	92
	ST-01-1533-WD1	SE241552.003	%	40 - 130%	66
	ST-01-1533-WD2	SE241552.004	%	40 - 130%	88

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	ST-01-1533-GW4	SE241552.001	%	40 - 130%	50
	ST-01-1533-GW5	SE241552.002	%	40 - 130%	80
	ST-01-1533-WD1	SE241552.003	%	40 - 130%	52
	ST-01-1533-WD2	SE241552.004	%	40 - 130%	68
d14-p-terphenyl (Surrogate)	ST-01-1533-GW4	SE241552.001	%	40 - 130%	72
	ST-01-1533-GW5	SE241552.002	%	40 - 130%	92
	ST-01-1533-WD1	SE241552.003	%	40 - 130%	66
	ST-01-1533-WD2	SE241552.004	%	40 - 130%	88
d5-nitrobenzene (Surrogate)	ST-01-1533-GW4	SE241552.001	%	40 - 130%	48
	ST-01-1533-GW5	SE241552.002	%	40 - 130%	76
	ST-01-1533-WD1	SE241552.003	%	40 - 130%	46
	ST-01-1533-WD2	SE241552.004	%	40 - 130%	60

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	ST-01-1533-GW4	SE241552.001	%	40 - 130%	56
	ST-01-1533-GW5	SE241552.002	%	40 - 130%	79
	ST-01-1533-WD1	SE241552.003	%	40 - 130%	51
	ST-01-1533-WD2	SE241552.004	%	40 - 130%	72

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	ST-01-1533-GW4	SE241552.001	%	40 - 130%	108
	ST-01-1533-GW5	SE241552.002	%	40 - 130%	108
	ST-01-1533-WD1	SE241552.003	%	40 - 130%	105
	ST-01-1533-WD2	SE241552.004	%	40 - 130%	105
	Trip Spike	SE241552.005	%	40 - 130%	108
	Trip Blank	SE241552.006	%	40 - 130%	107
d4-1,2-dichloroethane (Surrogate)	ST-01-1533-GW4	SE241552.001	%	40 - 130%	95
	ST-01-1533-GW5	SE241552.002	%	40 - 130%	96
	ST-01-1533-WD1	SE241552.003	%	40 - 130%	95
	ST-01-1533-WD2	SE241552.004	%	40 - 130%	93
	Trip Spike	SE241552.005	%	40 - 130%	102
	Trip Blank	SE241552.006	%	40 - 130%	95
d8-toluene (Surrogate)	ST-01-1533-GW4	SE241552.001	%	40 - 130%	99
	ST-01-1533-GW5	SE241552.002	%	40 - 130%	101
	ST-01-1533-WD1	SE241552.003	%	40 - 130%	99
	ST-01-1533-WD2	SE241552.004	%	40 - 130%	100
	Trip Spike	SE241552.005	%	40 - 130%	103
	Trip Blank	SE241552.006	%	40 - 130%	98

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	ST-01-1533-GW4	SE241552.001	%	40 - 130%	108
	ST-01-1533-GW5	SE241552.002	%	40 - 130%	108

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Volatile Petroleum Hydrocarbons in Water (continued) — **Method: ME-(AU)-[ENV]AN433**

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	ST-01-1533-WD1	SE241552.003	%	40 - 130%	105
	ST-01-1533-WD2	SE241552.004	%	40 - 130%	105
	Trip Blank	SE241552.006	%	40 - 130%	107
d4-1,2-dichloroethane (Surrogate)	ST-01-1533-GW4	SE241552.001	%	60 - 130%	95
	ST-01-1533-GW5	SE241552.002	%	60 - 130%	96
	ST-01-1533-WD1	SE241552.003	%	60 - 130%	95
	ST-01-1533-WD2	SE241552.004	%	60 - 130%	93
	Trip Blank	SE241552.006	%	60 - 130%	95
d8-toluene (Surrogate)	ST-01-1533-GW4	SE241552.001	%	40 - 130%	99
	ST-01-1533-GW5	SE241552.002	%	40 - 130%	101
	ST-01-1533-WD1	SE241552.003	%	40 - 130%	99
	ST-01-1533-WD2	SE241552.004	%	40 - 130%	100
	Trip Blank	SE241552.006	%	40 - 130%	98

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB268775.001	Mercury	mg/L	0.0001	<0.0001

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB268659.001		Alpha BHC	µg/L	0.1	<0.1
		Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
		Beta BHC	µg/L	0.1	<0.1
		Lindane (gamma BHC)	µg/L	0.1	<0.1
		Delta BHC	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Aldrin	µg/L	0.1	<0.1
		Isodrin	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Gamma Chlordane	µg/L	0.1	<0.1
		Alpha Chlordane	µg/L	0.1	<0.1
		Alpha Endosulfan	µg/L	0.1	<0.1
		p,p'-DDE	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Beta Endosulfan	µg/L	0.1	<0.1
		p,p'-DDD	µg/L	0.1	<0.1
		Endrin aldehyde	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		p,p'-DDT	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	50

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB268659.001		Azinphos-methyl	µg/L	0.2	<0.2
		Bromophos Ethyl	µg/L	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Dichlorvos	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Fenitrothion	µg/L	0.2	<0.2
		Malathion	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5
		Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	70
		d14-p-terphenyl (Surrogate)	%	-	90

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB268659.001	Naphthalene	µg/L	0.1	<0.1
	2-methylnaphthalene	µg/L	0.1	<0.1
	1-methylnaphthalene	µg/L	0.1	<0.1
	Acenaphthylene	µg/L	0.1	<0.1
	Acenaphthene	µg/L	0.1	<0.1
	Fluorene	µg/L	0.1	<0.1
	Phenanthrene	µg/L	0.1	<0.1
	Anthracene	µg/L	0.1	<0.1
	Fluoranthene	µg/L	0.1	<0.1
	Pyrene	µg/L	0.1	<0.1
	Benzo(a)anthracene	µg/L	0.1	<0.1
	Chrysene	µg/L	0.1	<0.1
	Benzo(a)pyrene	µg/L	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB268659.001		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1
		Benzo(ghi)perylene	µg/L	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	72
		2-fluorobiphenyl (Surrogate)	%	-	70
		d14-p-terphenyl (Surrogate)	%	-	90

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB268659.001	Arochlor 1016	µg/L	1	<1
	Arochlor 1221	µg/L	1	<1
	Arochlor 1232	µg/L	1	<1
	Arochlor 1242	µg/L	1	<1
	Arochlor 1248	µg/L	1	<1
	Arochlor 1254	µg/L	1	<1
	Arochlor 1260	µg/L	1	<1
	Arochlor 1262	µg/L	1	<1
	Arochlor 1268	µg/L	1	<1

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB268769.001	Arsenic	µg/L	1	<1
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Copper	µg/L	1	<1
	Lead	µg/L	1	<1
	Nickel	µg/L	1	<1
	Zinc	µg/L	5	<5
LB268769.025	Arsenic	µg/L	1	<1
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Copper	µg/L	1	<1
	Lead	µg/L	1	<1
	Nickel	µg/L	1	<1
	Zinc	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB268659.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB268931.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	93
		d8-toluene (Surrogate)	%	-	96
		Bromofluorobenzene (Surrogate)	%	-	103

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB268931.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	93
		d8-toluene (Surrogate)	%	-	96
		Bromofluorobenzene (Surrogate)	%	-	103

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241576.005	LB268769.014		Arsenic	µg/L	1	<1	<1	200	0
			Cadmium	µg/L	0.1	<0.1	<0.1	200	0
			Chromium	µg/L	1	<1	<1	200	0
			Copper	µg/L	1	<1	<1	200	0
			Lead	µg/L	1	<1	<1	200	0
			Nickel	µg/L	1	<1	<1	200	0
			Zinc	µg/L	5	<5	<5	200	0
SE241685.003	LB268769.027		Arsenic	µg/L	1	<1	<1	192	0
			Cadmium	µg/L	0.1	<0.1	<0.1	200	0
			Chromium	µg/L	1	<1	<1	200	0
			Copper	µg/L	1	4	3	44	12
			Lead	µg/L	1	<1	<1	200	0
			Nickel	µg/L	1	3	3	45	4
			Zinc	µg/L	5	23	20	38	14

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241488.001	LB268659.028		TRH C10-C14	µg/L	50	140	92	74	39
			TRH C15-C28	µg/L	200	240	<200	130	19
			TRH C29-C36	µg/L	200	<200	<200	200	0
		TRH F Bands	TRH >C10-C16	µg/L	60	210	140	65	39
			TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
			TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0
SE241576.003	LB268659.014		TRH C10-C14	µg/L	50	44.75	44.5	142	0
			TRH C15-C28	µg/L	200	38.151162790	65.412790697	200	0
			TRH C29-C36	µg/L	200	0.656976744	10.412790697	200	0
		TRH F Bands	TRH >C10-C16	µg/L	60	50.918604651	52.319767441	146	0
			TRH >C10-C16 - Naphthalene (F2)	µg/L	60	50.882713756	52.319767441	146	0
			TRH >C16-C34 (F3)	µg/L	500	28.761627906	65	200	0
			TRH >C34-C40 (F4)	µg/L	500	0	0	200	0

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241517.020	LB268931.024	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.5	9.7	30	2
			d8-toluene (Surrogate)	µg/L	-	10	9.6	30	4
			Bromofluorobenzene (Surrogate)	µg/L	-	11	11	30	1
		Totals	Total BTEX	µg/L	3	<3	<3	200	0
SE241694.001	LB268931.025	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
			Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.4	9.5	30	0
			d8-toluene (Surrogate)	µg/L	-	9.7	9.9	30	3
			Bromofluorobenzene (Surrogate)	µg/L	-	11	10	30	4
		Totals	Total BTEX	µg/L	3	<3	<3	200	0

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241517.020	LB268931.024	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.5	9.7	30	2
			d8-toluene (Surrogate)	µg/L	-	10	9.6	30	4
			Bromofluorobenzene (Surrogate)	µg/L	-	11	11	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
SE241694.001	LB268931.025		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Volatile Petroleum Hydrocarbons in Water (continued) — **Method: ME-(AU)-[ENV]AN433**

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE241694.001	LB268931.025	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	9.4	9.5	30	0
			d8-toluene (Surrogate)	µg/L	-	9.7	9.9	30	3
			Bromofluorobenzene (Surrogate)	µg/L	-	11	10	30	4
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268659.002		Delta BHC	µg/L	0.1	0.2	0.2	60 - 140	85
		Heptachlor	µg/L	0.1	0.2	0.2	60 - 140	84
		Aldrin	µg/L	0.1	0.1	0.2	60 - 140	72
		Dieldrin	µg/L	0.1	0.2	0.2	60 - 140	85
		Endrin	µg/L	0.1	0.2	0.2	60 - 140	93
		p,p'-DDT	µg/L	0.1	0.2	0.2	60 - 140	95
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.11	0.15	40 - 130	71

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268659.002		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	7.8	8	60 - 140	97
		Diazinon (Dimpylate)	µg/L	0.5	8.1	8	60 - 140	101
		Dichlorvos	µg/L	0.5	6.9	8	60 - 140	86
		Ethion	µg/L	0.2	7.9	8	60 - 140	99
	Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	62
		d14-p-terphenyl (Surrogate)	µg/L	-	0.5	0.5	40 - 130	94

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268659.002		Naphthalene	µg/L	0.1	32	40	60 - 140	79
		Acenaphthylene	µg/L	0.1	33	40	60 - 140	83
		Acenaphthene	µg/L	0.1	37	40	60 - 140	91
		Phenanthrene	µg/L	0.1	39	40	60 - 140	97
		Anthracene	µg/L	0.1	36	40	60 - 140	91
		Fluoranthene	µg/L	0.1	36	40	60 - 140	91
		Pyrene	µg/L	0.1	36	40	60 - 140	91
		Benzo(a)pyrene	µg/L	0.1	37	40	60 - 140	93
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.5	40 - 130	56
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	62
		d14-p-terphenyl (Surrogate)	µg/L	-	0.5	0.5	40 - 130	94

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268659.002	Arochlor 1260	µg/L	1	<1	0.4	60 - 140	106

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268769.002	Arsenic	µg/L	1	21	20	80 - 120	104
	Cadmium	µg/L	0.1	20	20	80 - 120	100
	Chromium	µg/L	1	20	20	80 - 120	100
	Copper	µg/L	1	20	20	80 - 120	102
	Lead	µg/L	1	20	20	80 - 120	100
	Nickel	µg/L	1	21	20	80 - 120	104
	Zinc	µg/L	5	20	20	80 - 120	102
LB268769.026	Arsenic	µg/L	1	23	20	80 - 120	113
	Cadmium	µg/L	0.1	21	20	80 - 120	103
	Chromium	µg/L	1	21	20	80 - 120	104
	Copper	µg/L	1	21	20	80 - 120	103
	Lead	µg/L	1	20	20	80 - 120	99
	Nickel	µg/L	1	21	20	80 - 120	106
	Zinc	µg/L	5	20	20	80 - 120	100

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268659.002		TRH C10-C14	µg/L	50	870	1200	60 - 140	72
		TRH C15-C28	µg/L	200	1100	1200	60 - 140	93
		TRH C29-C36	µg/L	200	1000	1200	60 - 140	87
	TRH F Bands	TRH >C10-C16	µg/L	60	990	1200	60 - 140	83
		TRH >C16-C34 (F3)	µg/L	500	1100	1200	60 - 140	94
		TRH >C34-C40 (F4)	µg/L	500	520	600	60 - 140	87

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268931.002	Monocyclic	Benzene	µg/L	0.5	53	45.45	60 - 140	117
	Aromatic	Toluene	µg/L	0.5	53	45.45	60 - 140	116
		Ethylbenzene	µg/L	0.5	49	45.45	60 - 140	108
		m/p-xylene	µg/L	1	98	90.9	60 - 140	108
		o-xylene	µg/L	0.5	50	45.45	60 - 140	110
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.4	10	60 - 140	104
		d8-toluene (Surrogate)	µg/L	-	10.9	10	70 - 130	109
		Bromofluorobenzene (Surrogate)	µg/L	-	10.6	10	70 - 130	106

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB268931.002		TRH C6-C10	µg/L	50	810	946.63	60 - 140	85
		TRH C6-C9	µg/L	40	700	818.71	60 - 140	86
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.4	10	60 - 140	104
		d8-toluene (Surrogate)	µg/L	-	10.9	10	70 - 130	109
		Bromofluorobenzene (Surrogate)	µg/L	-	10.6	10	70 - 130	106
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	500	639.67	60 - 140	79

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241552.001	LB268769.004	Arsenic	µg/L	1	23	<1	20	115
		Cadmium	µg/L	0.1	21	<0.1	20	102
		Chromium	µg/L	1	20	<1	20	101
		Copper	µg/L	1	20	<1	20	96
		Lead	µg/L	1	20	<1	20	100
		Nickel	µg/L	1	22	2	20	99
		Zinc	µg/L	5	20	<5	20	99

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241552.001	LB268931.023	Monocyclic Aromatic	Benzene	µg/L	0.5	50	<0.5	45.45	111
			Toluene	µg/L	0.5	51	<0.5	45.45	111
			Ethylbenzene	µg/L	0.5	51	<0.5	45.45	113
			m/p-xylene	µg/L	1	100	<1	90.9	111
			o-xylene	µg/L	0.5	52	<0.5	45.45	114
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	51	<0.5	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.3	9.5	-	103
			d8-toluene (Surrogate)	µg/L	-	10.4	9.9	-	104
			Bromofluorobenzene (Surrogate)	µg/L	-	10.2	10.8	-	102
		Totals	Total BTEX	µg/L	3	300	<3	-	-

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE241552.001	LB268931.023		TRH C6-C10	µg/L	50	930	<50	946.63	98
			TRH C6-C9	µg/L	40	800	<40	818.71	98
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.3	9.5	-	103
			d8-toluene (Surrogate)	µg/L	-	10.4	9.9	-	104
			Bromofluorobenzene (Surrogate)	µg/L	-	10.2	10.8	-	102
		VPH F Bands	Benzene (F0)	µg/L	0.5		<0.5	-	-
			TRH C6-C10 minus BTEX (F1)	µg/L	50	620	<50	639.67	97

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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CHAIN OF CUSTODY & ANALYSIS REQUEST

Page_____of _____

SGS Environmental Services

Unit 16, 33 Maddox Street

Alexandria NSW 2015

Telephone No: (02) 85940400

Facsimile No: (02) 85940499

Email: au.samplereceipt.sydney@sgs.com

Company Name: K2 Consulting Group

Address: Suite 222 (Building B)

20 Lexington Drive, Bella Vista NSW 2153

Contact Name: Kannan Kaliappan

Project Name/No: ST-01-1533 (515 Crookwell Road, Kingsdale)

Purchase Order No:

Results Required By:

Telephone: 0449 669 559

Facsimile:

Email Results: kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

SGS EHS Sydney COC

SE241552

Client Sample ID	Date Sampled	Lab sample ID	CL17 (BTEXN/TRH/PAH/OC/OP/PCB/8HM)
ST-01-1533-GW14	10/01/2023	1	X
ST-01-1533-GW15	10/01/2023	2	X
ST-01-1533-WD1	10/01/2023	3	X
ST-01-1533-WD2	10/01/2023	4	X
ST-01-1533-WD1 (Sediment)	10/01/2023		HOLD
Trip Spike		5	X
Trip Blank		6	X

Relinquished By: Sirish Baniya — Date/Time: 11/01/2023 — Received By: — Date/Time 11/1/23 @ 5:50

Relinquished By: — Date/Time: — Received By: — Date/Time

Samples Intact: Yes/ No — Temperature: Ambient / Chilled 10°C ice — Sample Cooler Sealed: Yes/ No — Laboratory Quotation No:

Comments:

source:SE_Autoscan.pdf page:3 SGS Ref: SE241552_COC

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

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Project	**ST-01-1533(515 Crookwell Road,Kingsdale)**
Order Number	**ST-01-1533**
Samples	2

LABORATORY DETAILS

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Email	au.environmental.sydney@sgs.com
SGS Reference	**SE239861 R0**
Date Received	28/11/2022
Date Reported	5/12/2022

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Ly Kim HA
Organic Section Head

Teresa NGUYEN
Organic Chemist

VOCs in Water [AN433] Tested: 2/12/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001	ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002
Benzene	µg/L	0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 2/12/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001	ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002
TRH C6-C9	µg/L	40	<40	<40
Benzene (F0)	µg/L	0.5	<0.5	<0.5
TRH C6-C10	µg/L	50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 1/12/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001	ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002
TRH C10-C14	µg/L	50	<50	<50
TRH C15-C28	µg/L	200	<200	<200
TRH C29-C36	µg/L	200	<200	<200
TRH C37-C40	µg/L	200	<200	<200
TRH >C10-C16	µg/L	60	<60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500
TRH C10-C40	µg/L	320	<320	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 1/12/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001	ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002
Naphthalene	µg/L	0.1	**0.1**	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1

OC Pesticides in Water [AN420] Tested: 1/12/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001	ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002
Alpha BHC	µg/L	0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1
Total OC	µg/L	1	<1	<1
Total OC	µg/L	1	<1	<1

OP Pesticides in Water [AN420] Tested: 1/12/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001	ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002
Dichlorvos	µg/L	0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2

PCBs in Water [AN420] Tested: 1/12/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001	ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002
Arochlor 1016	µg/L	1	<1	<1
Arochlor 1221	µg/L	1	<1	<1
Arochlor 1232	µg/L	1	<1	<1
Arochlor 1242	µg/L	1	<1	<1
Arochlor 1248	µg/L	1	<1	<1
Arochlor 1254	µg/L	1	<1	<1
Arochlor 1260	µg/L	1	<1	<1
Arochlor 1262	µg/L	1	<1	<1
Arochlor 1268	µg/L	1	<1	<1
Total Arochlors*	µg/L	5	<5	<5

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 1/12/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001	ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002
Arsenic	µg/L	1	<1	<1
Cadmium	µg/L	0.1	<0.1	<0.1
Chromium	µg/L	1	<1	**2**
Copper	µg/L	1	<1	<1
Lead	µg/L	1	<1	<1
Nickel	µg/L	1	**3**	<1
Zinc	µg/L	5	<5	<5

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 1/12/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 (2) WATER - 25/11/2022 SE239861.001	ST-01-1533-GW5 (2) WATER - 25/11/2022 SE239861.002
Mercury	mg/L	0.0001	<0.0001	<0.0001

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used.
AN403	Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoveerable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting .
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		
***	Indicates that both * and ** apply.				

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE239861 R0

CLIENT DETAILS

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Project	**ST-01-1533(515 Crookwell Road,Kingsdale)**
Order Number	**ST-01-1533**
Samples	2

LABORATORY DETAILS

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SGS Reference	**SE239861 R0**
Date Received	28 Nov 2022
Date Reported	05 Dec 2022

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Duplicate	Trace Metals (Dissolved) in Water by ICPMS	1 item

SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice
Samples received in correct containers	Yes	Sample counts by matrix	2 Water
Date documentation received	28/11/2022	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	3.1°C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

HOLDING TIME SUMMARY

SE239861 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4 (2)	SE239861.001	LB265356	25 Nov 2022	28 Nov 2022	23 Dec 2022	01 Dec 2022	23 Dec 2022	01 Dec 2022
ST-01-1533-GW5 (2)	SE239861.002	LB265356	25 Nov 2022	28 Nov 2022	23 Dec 2022	01 Dec 2022	23 Dec 2022	01 Dec 2022

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4 (2)	SE239861.001	LB265361	25 Nov 2022	28 Nov 2022	02 Dec 2022	01 Dec 2022	10 Jan 2023	05 Dec 2022
ST-01-1533-GW5 (2)	SE239861.002	LB265361	25 Nov 2022	28 Nov 2022	02 Dec 2022	01 Dec 2022	10 Jan 2023	05 Dec 2022

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4 (2)	SE239861.001	LB265361	25 Nov 2022	28 Nov 2022	02 Dec 2022	01 Dec 2022	10 Jan 2023	05 Dec 2022
ST-01-1533-GW5 (2)	SE239861.002	LB265361	25 Nov 2022	28 Nov 2022	02 Dec 2022	01 Dec 2022	10 Jan 2023	05 Dec 2022

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4 (2)	SE239861.001	LB265361	25 Nov 2022	28 Nov 2022	02 Dec 2022	01 Dec 2022	10 Jan 2023	05 Dec 2022
ST-01-1533-GW5 (2)	SE239861.002	LB265361	25 Nov 2022	28 Nov 2022	02 Dec 2022	01 Dec 2022	10 Jan 2023	05 Dec 2022

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4 (2)	SE239861.001	LB265361	25 Nov 2022	28 Nov 2022	02 Dec 2022	01 Dec 2022	10 Jan 2023	05 Dec 2022
ST-01-1533-GW5 (2)	SE239861.002	LB265361	25 Nov 2022	28 Nov 2022	02 Dec 2022	01 Dec 2022	10 Jan 2023	05 Dec 2022

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4 (2)	SE239861.001	LB265354	25 Nov 2022	28 Nov 2022	24 May 2023	01 Dec 2022	24 May 2023	01 Dec 2022
ST-01-1533-GW5 (2)	SE239861.002	LB265354	25 Nov 2022	28 Nov 2022	24 May 2023	01 Dec 2022	24 May 2023	01 Dec 2022

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4 (2)	SE239861.001	LB265361	25 Nov 2022	28 Nov 2022	02 Dec 2022	01 Dec 2022	10 Jan 2023	05 Dec 2022
ST-01-1533-GW5 (2)	SE239861.002	LB265361	25 Nov 2022	28 Nov 2022	02 Dec 2022	01 Dec 2022	10 Jan 2023	05 Dec 2022

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4 (2)	SE239861.001	LB265466	25 Nov 2022	28 Nov 2022	09 Dec 2022	02 Dec 2022	09 Dec 2022	05 Dec 2022
ST-01-1533-GW5 (2)	SE239861.002	LB265466	25 Nov 2022	28 Nov 2022	09 Dec 2022	02 Dec 2022	09 Dec 2022	05 Dec 2022

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4 (2)	SE239861.001	LB265466	25 Nov 2022	28 Nov 2022	09 Dec 2022	02 Dec 2022	09 Dec 2022	05 Dec 2022
ST-01-1533-GW5 (2)	SE239861.002	LB265466	25 Nov 2022	28 Nov 2022	09 Dec 2022	02 Dec 2022	09 Dec 2022	05 Dec 2022

SURROGATES

SE239861 R0

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	40 - 130%	71
	ST-01-1533-GW5 (2)	SE239861.002	%	40 - 130%	56

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	40 - 130%	66
	ST-01-1533-GW5 (2)	SE239861.002	%	40 - 130%	50
d14-p-terphenyl (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	40 - 130%	84
	ST-01-1533-GW5 (2)	SE239861.002	%	40 - 130%	76

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	40 - 130%	66
	ST-01-1533-GW5 (2)	SE239861.002	%	40 - 130%	50
d14-p-terphenyl (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	40 - 130%	84
	ST-01-1533-GW5 (2)	SE239861.002	%	40 - 130%	76
d5-nitrobenzene (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	40 - 130%	64
	ST-01-1533-GW5 (2)	SE239861.002	%	40 - 130%	48

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	40 - 130%	71
	ST-01-1533-GW5 (2)	SE239861.002	%	40 - 130%	56

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	40 - 130%	114
	ST-01-1533-GW5 (2)	SE239861.002	%	40 - 130%	114
d4-1,2-dichloroethane (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	40 - 130%	107
	ST-01-1533-GW5 (2)	SE239861.002	%	40 - 130%	107
d8-toluene (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	40 - 130%	112
	ST-01-1533-GW5 (2)	SE239861.002	%	40 - 130%	113

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	40 - 130%	114
	ST-01-1533-GW5 (2)	SE239861.002	%	40 - 130%	114
d4-1,2-dichloroethane (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	60 - 130%	107
	ST-01-1533-GW5 (2)	SE239861.002	%	60 - 130%	107
d8-toluene (Surrogate)	ST-01-1533-GW4 (2)	SE239861.001	%	40 - 130%	112
	ST-01-1533-GW5 (2)	SE239861.002	%	40 - 130%	113

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB265356.001	Mercury	mg/L	0.0001	<0.0001

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB265361.001		Alpha BHC	µg/L	0.1	<0.1
		Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
		Beta BHC	µg/L	0.1	<0.1
		Lindane (gamma BHC)	µg/L	0.1	<0.1
		Delta BHC	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Aldrin	µg/L	0.1	<0.1
		Isodrin	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Gamma Chlordane	µg/L	0.1	<0.1
		Alpha Chlordane	µg/L	0.1	<0.1
		Alpha Endosulfan	µg/L	0.1	<0.1
		p,p'-DDE	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Beta Endosulfan	µg/L	0.1	<0.1
		p,p'-DDD	µg/L	0.1	<0.1
		Endrin aldehyde	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		p,p'-DDT	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	43

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB265361.001		Azinphos-methyl	µg/L	0.2	<0.2
		Bromophos Ethyl	µg/L	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Dichlorvos	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Fenitrothion	µg/L	0.2	<0.2
		Malathion	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5
		Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	68
		d14-p-terphenyl (Surrogate)	%	-	76

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB265361.001	Naphthalene	µg/L	0.1	<0.1
	2-methylnaphthalene	µg/L	0.1	<0.1
	1-methylnaphthalene	µg/L	0.1	<0.1
	Acenaphthylene	µg/L	0.1	<0.1
	Acenaphthene	µg/L	0.1	<0.1
	Fluorene	µg/L	0.1	<0.1
	Phenanthrene	µg/L	0.1	<0.1
	Anthracene	µg/L	0.1	<0.1
	Fluoranthene	µg/L	0.1	<0.1
	Pyrene	µg/L	0.1	<0.1
	Benzo(a)anthracene	µg/L	0.1	<0.1
	Chrysene	µg/L	0.1	<0.1
	Benzo(a)pyrene	µg/L	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB265361.001		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1
		Benzo(ghi)perylene	µg/L	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	62
		2-fluorobiphenyl (Surrogate)	%	-	68
		d14-p-terphenyl (Surrogate)	%	-	76

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB265361.001	Arochlor 1016	µg/L	1	<1
	Arochlor 1221	µg/L	1	<1
	Arochlor 1232	µg/L	1	<1
	Arochlor 1242	µg/L	1	<1
	Arochlor 1248	µg/L	1	<1
	Arochlor 1254	µg/L	1	<1
	Arochlor 1260	µg/L	1	<1
	Arochlor 1262	µg/L	1	<1
	Arochlor 1268	µg/L	1	<1

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB265354.001	Arsenic	µg/L	1	<1
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Copper	µg/L	1	<1
	Lead	µg/L	1	<1
	Nickel	µg/L	1	<1
	Zinc	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB265361.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB265466.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	104
		d8-toluene (Surrogate)	%	-	103
		Bromofluorobenzene (Surrogate)	%	-	110

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB265466.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	104
		d8-toluene (Surrogate)	%	-	103
		Bromofluorobenzene (Surrogate)	%	-	110

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239882.007	LB265356.014	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	0

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239882.005	LB265354.014	Arsenic	µg/L	1	3	3	51	3
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	130	0
		Copper	µg/L	1	2	3	55	9
		Lead	µg/L	1	1	3	57	77 ③
		Nickel	µg/L	1	<1	<1	153	0
		Zinc	µg/L	5	11	12	59	13
SE239882.007	LB265354.017	Arsenic	µg/L	1	<1	<1	200	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	<1	<1	200	0
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	200	0

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239769.014	LB265466.023		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.5	10.7	30	3
			d8-toluene (Surrogate)	µg/L	-	11.2	11.1	30	1
			Bromofluorobenzene (Surrogate)	µg/L	-	11.6	12.0	30	4
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB265361.002		Delta BHC	µg/L	0.1	0.1	0.2	60 - 140	67
		Heptachlor	µg/L	0.1	0.1	0.2	60 - 140	70
		Aldrin	µg/L	0.1	0.1	0.2	60 - 140	63
		Dieldrin	µg/L	0.1	0.1	0.2	60 - 140	72
		Endrin	µg/L	0.1	0.2	0.2	60 - 140	81
		p,p'-DDT	µg/L	0.1	0.1	0.2	60 - 140	70
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.09	0.15	40 - 130	58

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB265361.002		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	7.5	8	60 - 140	93
		Diazinon (Dimpylate)	µg/L	0.5	7.3	8	60 - 140	91
		Dichlorvos	µg/L	0.5	7.0	8	60 - 140	87
		Ethion	µg/L	0.2	6.8	8	60 - 140	84
	Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	70
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	80

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB265361.002		Naphthalene	µg/L	0.1	29	40	60 - 140	72
		Acenaphthylene	µg/L	0.1	34	40	60 - 140	84
		Acenaphthene	µg/L	0.1	34	40	60 - 140	86
		Phenanthrene	µg/L	0.1	35	40	60 - 140	86
		Anthracene	µg/L	0.1	33	40	60 - 140	83
		Fluoranthene	µg/L	0.1	35	40	60 - 140	86
		Pyrene	µg/L	0.1	36	40	60 - 140	89
		Benzo(a)pyrene	µg/L	0.1	38	40	60 - 140	94
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.5	40 - 130	56
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	70
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	80

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB265361.002	Arochlor 1260	µg/L	1	<1	0.4	60 - 140	96

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB265354.002	Arsenic	µg/L	1	20	20	80 - 120	99
	Cadmium	µg/L	0.1	20	20	80 - 120	101
	Chromium	µg/L	1	20	20	80 - 120	98
	Copper	µg/L	1	20	20	80 - 120	101
	Lead	µg/L	1	20	20	80 - 120	101
	Nickel	µg/L	1	20	20	80 - 120	100
	Zinc	µg/L	5	21	20	80 - 120	103

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB265361.002		TRH C10-C14	µg/L	50	1100	1200	60 - 140	88
		TRH C15-C28	µg/L	200	1000	1200	60 - 140	85
		TRH C29-C36	µg/L	200	1100	1200	60 - 140	88
	TRH F Bands	TRH >C10-C16	µg/L	60	920	1200	60 - 140	77
		TRH >C16-C34 (F3)	µg/L	500	1100	1200	60 - 140	92
		TRH >C34-C40 (F4)	µg/L	500	520	600	60 - 140	87

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB265466.002	Monocyclic	Benzene	µg/L	0.5	52	45.45	60 - 140	114
	Aromatic	Toluene	µg/L	0.5	49	45.45	60 - 140	108
		Ethylbenzene	µg/L	0.5	51	45.45	60 - 140	111
		m/p-xylene	µg/L	1	100	90.9	60 - 140	113
		o-xylene	µg/L	0.5	51	45.45	60 - 140	112
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	11.8	10	60 - 140	118

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOCs in Water (continued)

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB265466.002	Surrogates	d8-toluene (Surrogate)	µg/L	-	11.2	10	70 - 130	112
		Bromofluorobenzene (Surrogate)	µg/L	-	10.8	10	70 - 130	108

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB265466.002		TRH C6-C10	µg/L	50	1100	946.63	60 - 140	112
		TRH C6-C9	µg/L	40	920	818.71	60 - 140	112
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	11.8	10	60 - 140	118
		d8-toluene (Surrogate)	µg/L	-	11.2	10	70 - 130	112
		Bromofluorobenzene (Surrogate)	µg/L	-	10.8	10	70 - 130	108
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	750	639.67	60 - 140	118

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239855.001	LB265356.004	Mercury	mg/L	0.0001	0.0019	-0.014	0.008	96

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239348B.003	LB265354.004	Arsenic	µg/L	1	22	1	20	106
		Cadmium	µg/L	0.1	21	<0.1	20	105
		Chromium	µg/L	1	23	3	20	98
		Copper	µg/L	1	24	4	20	101
		Lead	µg/L	1	21	<1	20	103
		Zinc	µg/L	5	56	35	20	105

MATRIX SPIKE DUPLICATES

SE239861 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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source: Sydney.pdf page: 1 SGS Ref: SE239861_COC

CHAIN OF CUSTODY & ANALYSIS REQUEST

Page_____of_____

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	K2 Consulting Group	Project Name/No:	ST-01-1533 (515 Crookwell Road, Kingsdale NSW 2580)
Address:	Suite 222 (Building B)	Purchase Order No:	
	20 Lexington Drive, Bella Vista NSW 2153	Results Required By:	5 Days TAT
		Telephone :	0449 669 559
Contact Name:	Kannan Kaliappan	Facsimile:	
		Email Results:	kannan@k2consultinggroup.com.au; sirish@k2consultinggroup.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	No. of Containers	CL17 (BTEXN/TRH/PAH/OC/OP/PCB/8HM)
ST-01-1533-GW4 (2)	25/11/2022	1	X	4	X
ST-01-1533-GW5 (2)	25/11/2022	2	X	4	X

SGS EHS Sydney COC
SE239861

Relinquished By: Sirish Baniya	Date/Time:28/11/2022	Received By:	Date/Time 28/11/22 @ 5.00
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:

Comments:

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

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Facsimile	(Not specified)
Email	kannan@k2consultinggroup.com.au
Project	**ST-01-1533 (515 Crookwell Road, Kingsdal**
Order Number	**ST-01-1533**
Samples	2

LABORATORY DETAILS

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SGS Reference	**SE239401 R0**
Date Received	21/11/2022
Date Reported	28/11/2022

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Ly Kim HA
Organic Section Head

Teresa NGUYEN
Organic Chemist

VOCs in Water [AN433] Tested: 24/11/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 WATER - 18/11/2022 SE239401.001	ST-01-1533-GW5 WATER - 18/11/2022 SE239401.002
Benzene	µg/L	0.5	<0.5	<0.5
Toluene	µg/L	0.5	<0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5	<0.5
m/p-xylene	µg/L	1	<1	<1
o-xylene	µg/L	0.5	<0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5	<1.5
Total BTEX	µg/L	3	<3	<3
Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 24/11/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 WATER - 18/11/2022 SE239401.001	ST-01-1533-GW5 WATER - 18/11/2022 SE239401.002
TRH C6-C9	µg/L	40	<40	<40
Benzene (F0)	µg/L	0.5	<0.5	<0.5
TRH C6-C10	µg/L	50	<50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 23/11/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 WATER - 18/11/2022 SE239401.001	ST-01-1533-GW5 WATER - 18/11/2022 SE239401.002
TRH C10-C14	µg/L	50	**55**	<50
TRH C15-C28	µg/L	200	<200	<200
TRH C29-C36	µg/L	200	<200	<200
TRH C37-C40	µg/L	200	<200	<200
TRH >C10-C16	µg/L	60	**61**	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	**61**	<60
TRH >C16-C34 (F3)	µg/L	500	<500	<500
TRH >C34-C40 (F4)	µg/L	500	<500	<500
TRH C10-C40	µg/L	320	<320	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 23/11/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 WATER - 18/11/2022 SE239401.001	ST-01-1533-GW5 WATER - 18/11/2022 SE239401.002
Naphthalene	µg/L	0.1	<0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1	<0.1
Fluorene	µg/L	0.1	<0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1	<0.1
Anthracene	µg/L	0.1	<0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1	<0.1
Pyrene	µg/L	0.1	<0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1
Chrysene	µg/L	0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1
Total PAH (18)	µg/L	1	<1	<1

OC Pesticides in Water [AN420] Tested: 23/11/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 WATER - 18/11/2022 SE239401.001	ST-01-1533-GW5 WATER - 18/11/2022 SE239401.002
Alpha BHC	µg/L	0.1	<0.1	<0.1
Hexachlorobenzene (HCB)	µg/L	0.1	<0.1	<0.1
Beta BHC	µg/L	0.1	<0.1	<0.1
Lindane (gamma BHC)	µg/L	0.1	<0.1	<0.1
Delta BHC	µg/L	0.1	<0.1	<0.1
Heptachlor	µg/L	0.1	<0.1	<0.1
Aldrin	µg/L	0.1	<0.1	<0.1
Heptachlor epoxide	µg/L	0.1	<0.1	<0.1
Gamma Chlordane	µg/L	0.1	<0.1	<0.1
Alpha Chlordane	µg/L	0.1	<0.1	<0.1
Alpha Endosulfan	µg/L	0.1	<0.1	<0.1
o,p'-DDE	µg/L	0.1	<0.1	<0.1
p,p'-DDE	µg/L	0.1	<0.1	<0.1
Dieldrin	µg/L	0.1	<0.1	<0.1
Endrin	µg/L	0.1	<0.1	<0.1
Beta Endosulfan	µg/L	0.1	<0.1	<0.1
o,p'-DDD	µg/L	0.1	<0.1	<0.1
p,p'-DDD	µg/L	0.1	<0.1	<0.1
Endosulfan sulphate	µg/L	0.1	<0.1	<0.1
o,p'-DDT	µg/L	0.1	<0.1	<0.1
p,p'-DDT	µg/L	0.1	<0.1	<0.1
Endrin ketone	µg/L	0.1	<0.1	<0.1
Methoxychlor	µg/L	0.1	<0.1	<0.1
trans-Nonachlor	µg/L	0.1	<0.1	<0.1
Endrin aldehyde	µg/L	0.1	<0.1	<0.1
Isodrin	µg/L	0.1	<0.1	<0.1
Mirex	µg/L	0.1	<0.1	<0.1
Total OC	µg/L	1	<1	<1
Total OC	µg/L	1	<1	<1

OP Pesticides in Water [AN420] Tested: 23/11/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 WATER - 18/11/2022 SE239401.001	ST-01-1533-GW5 WATER - 18/11/2022 SE239401.002
Dichlorvos	µg/L	0.5	<0.5	<0.5
Dimethoate	µg/L	0.5	<0.5	<0.5
Diazinon (Dimpylate)	µg/L	0.5	<0.5	<0.5
Fenitrothion	µg/L	0.2	<0.2	<0.2
Malathion	µg/L	0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	µg/L	0.2	<0.2	<0.2
Bromophos Ethyl	µg/L	0.2	<0.2	<0.2
Methidathion	µg/L	0.5	<0.5	<0.5
Ethion	µg/L	0.2	<0.2	<0.2
Azinphos-methyl	µg/L	0.2	<0.2	<0.2

PCBs in Water [AN420] Tested: 23/11/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 WATER - 18/11/2022 SE239401.001	ST-01-1533-GW5 WATER - 18/11/2022 SE239401.002
Arochlor 1016	µg/L	1	<1	<1
Arochlor 1221	µg/L	1	<1	<1
Arochlor 1232	µg/L	1	<1	<1
Arochlor 1242	µg/L	1	<1	<1
Arochlor 1248	µg/L	1	<1	<1
Arochlor 1254	µg/L	1	<1	<1
Arochlor 1260	µg/L	1	<1	<1
Arochlor 1262	µg/L	1	<1	<1
Arochlor 1268	µg/L	1	<1	<1
Total Arochlors*	µg/L	5	<5	<5

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 23/11/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 WATER - 18/11/2022 SE239401.001	ST-01-1533-GW5 WATER - 18/11/2022 SE239401.002
Arsenic	µg/L	1	<1	<1
Cadmium	µg/L	0.1	<0.1	<0.1
Chromium	µg/L	1	<1	**2**
Copper	µg/L	1	**1**	<1
Lead	µg/L	1	<1	<1
Nickel	µg/L	1	**2**	**2**
Zinc	µg/L	5	<5	<5

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 23/11/2022

PARAMETER	UOM	LOR	ST-01-1533-GW4 WATER - 18/11/2022 SE239401.001	ST-01-1533-GW5 WATER - 18/11/2022 SE239401.002
Mercury	mg/L	0.0001	<0.0001	<0.0001

METHOD	METHODOLOGY SUMMARY
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). Where F2 is corrected for Naphthalene, the VOC data for Naphthalene is used.
AN403	Additionally, the volatile C6-C9/C6-C10 fractions may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoveerable Hydrocarbons - Silica (TRH-Silica) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). Total PAH calculated from individual analyte detections at or above the limit of reporting.
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

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STATEMENT OF QA/QC PERFORMANCE

SE239401 R0

CLIENT DETAILS

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Email	kannan@k2consultinggroup.com.au
Project	**ST-01-1533 (515 Crookwell Road, Kingsdal**
Order Number	**ST-01-1533**
Samples	2

LABORATORY DETAILS

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Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE239401 R0**
Date Received	21 Nov 2022
Date Reported	28 Nov 2022

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	2 Water
Date documentation received	21/11/2022	Type of documentation received	COC
Number of eskies/boxes received		Samples received in good order	Yes
Samples received without headspace	Yes	Sample temperature upon receipt	9.1°C
Sufficient sample for analysis	Yes	Turnaround time requested	Standard

HOLDING TIME SUMMARY

SE239401 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Mercury (dissolved) in Water — Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE239401.001	LB264577	18 Nov 2022	21 Nov 2022	16 Dec 2022	23 Nov 2022	16 Dec 2022	23 Nov 2022
ST-01-1533-GW5	SE239401.002	LB264577	18 Nov 2022	21 Nov 2022	16 Dec 2022	23 Nov 2022	16 Dec 2022	23 Nov 2022

OC Pesticides in Water — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE239401.001	LB264576	18 Nov 2022	21 Nov 2022	25 Nov 2022	23 Nov 2022	02 Jan 2023	28 Nov 2022
ST-01-1533-GW5	SE239401.002	LB264576	18 Nov 2022	21 Nov 2022	25 Nov 2022	23 Nov 2022	02 Jan 2023	28 Nov 2022

OP Pesticides in Water — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE239401.001	LB264576	18 Nov 2022	21 Nov 2022	25 Nov 2022	23 Nov 2022	02 Jan 2023	28 Nov 2022
ST-01-1533-GW5	SE239401.002	LB264576	18 Nov 2022	21 Nov 2022	25 Nov 2022	23 Nov 2022	02 Jan 2023	28 Nov 2022

PAH (Polynuclear Aromatic Hydrocarbons) in Water — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE239401.001	LB264576	18 Nov 2022	21 Nov 2022	25 Nov 2022	23 Nov 2022	02 Jan 2023	28 Nov 2022
ST-01-1533-GW5	SE239401.002	LB264576	18 Nov 2022	21 Nov 2022	25 Nov 2022	23 Nov 2022	02 Jan 2023	28 Nov 2022

PCBs in Water — Method: ME-(AU)-[ENV]AN420

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE239401.001	LB264576	18 Nov 2022	21 Nov 2022	25 Nov 2022	23 Nov 2022	02 Jan 2023	28 Nov 2022
ST-01-1533-GW5	SE239401.002	LB264576	18 Nov 2022	21 Nov 2022	25 Nov 2022	23 Nov 2022	02 Jan 2023	28 Nov 2022

Trace Metals (Dissolved) in Water by ICPMS — Method: ME-(AU)-[ENV]AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE239401.001	LB264564	18 Nov 2022	21 Nov 2022	17 May 2023	23 Nov 2022	17 May 2023	23 Nov 2022
ST-01-1533-GW5	SE239401.002	LB264564	18 Nov 2022	21 Nov 2022	17 May 2023	23 Nov 2022	17 May 2023	23 Nov 2022

TRH (Total Recoverable Hydrocarbons) in Water — Method: ME-(AU)-[ENV]AN403

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE239401.001	LB264576	18 Nov 2022	21 Nov 2022	25 Nov 2022	23 Nov 2022	02 Jan 2023	28 Nov 2022
ST-01-1533-GW5	SE239401.002	LB264576	18 Nov 2022	21 Nov 2022	25 Nov 2022	23 Nov 2022	02 Jan 2023	28 Nov 2022

VOCs in Water — Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE239401.001	LB264773	18 Nov 2022	21 Nov 2022	02 Dec 2022	24 Nov 2022	02 Dec 2022	25 Nov 2022
ST-01-1533-GW5	SE239401.002	LB264773	18 Nov 2022	21 Nov 2022	02 Dec 2022	24 Nov 2022	02 Dec 2022	25 Nov 2022

Volatile Petroleum Hydrocarbons in Water — Method: ME-(AU)-[ENV]AN433

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
ST-01-1533-GW4	SE239401.001	LB264773	18 Nov 2022	21 Nov 2022	02 Dec 2022	24 Nov 2022	02 Dec 2022	25 Nov 2022
ST-01-1533-GW5	SE239401.002	LB264773	18 Nov 2022	21 Nov 2022	02 Dec 2022	24 Nov 2022	02 Dec 2022	25 Nov 2022

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Tetrachloro-m-xylene (TCMX) (Surrogate)	ST-01-1533-GW4	SE239401.001	%	40 - 130%	57
	ST-01-1533-GW5	SE239401.002	%	40 - 130%	69

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	ST-01-1533-GW4	SE239401.001	%	40 - 130%	52
	ST-01-1533-GW5	SE239401.002	%	40 - 130%	54
d14-p-terphenyl (Surrogate)	ST-01-1533-GW4	SE239401.001	%	40 - 130%	64
	ST-01-1533-GW5	SE239401.002	%	40 - 130%	74

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
2-fluorobiphenyl (Surrogate)	ST-01-1533-GW4	SE239401.001	%	40 - 130%	52
	ST-01-1533-GW5	SE239401.002	%	40 - 130%	54
d14-p-terphenyl (Surrogate)	ST-01-1533-GW4	SE239401.001	%	40 - 130%	64
	ST-01-1533-GW5	SE239401.002	%	40 - 130%	74
d5-nitrobenzene (Surrogate)	ST-01-1533-GW4	SE239401.001	%	40 - 130%	42
	ST-01-1533-GW5	SE239401.002	%	40 - 130%	58

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
TCMX (Surrogate)	ST-01-1533-GW4	SE239401.001	%	40 - 130%	57
	ST-01-1533-GW5	SE239401.002	%	40 - 130%	69

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	ST-01-1533-GW4	SE239401.001	%	40 - 130%	108
	ST-01-1533-GW5	SE239401.002	%	40 - 130%	109
d4-1,2-dichloroethane (Surrogate)	ST-01-1533-GW4	SE239401.001	%	40 - 130%	83
	ST-01-1533-GW5	SE239401.002	%	40 - 130%	89
d8-toluene (Surrogate)	ST-01-1533-GW4	SE239401.001	%	40 - 130%	97
	ST-01-1533-GW5	SE239401.002	%	40 - 130%	103

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Parameter	Sample Name	Sample Number	Units	Criteria	Recovery %
Bromofluorobenzene (Surrogate)	ST-01-1533-GW4	SE239401.001	%	40 - 130%	108
	ST-01-1533-GW5	SE239401.002	%	40 - 130%	109
d4-1,2-dichloroethane (Surrogate)	ST-01-1533-GW4	SE239401.001	%	60 - 130%	83
	ST-01-1533-GW5	SE239401.002	%	60 - 130%	89
d8-toluene (Surrogate)	ST-01-1533-GW4	SE239401.001	%	40 - 130%	97
	ST-01-1533-GW5	SE239401.002	%	40 - 130%	103

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Sample Number	Parameter	Units	LOR	Result
LB264577.001	Mercury	mg/L	0.0001	<0.0001

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB264576.001		Alpha BHC	µg/L	0.1	<0.1
		Hexachlorobenzene (HCB)	µg/L	0.1	<0.1
		Beta BHC	µg/L	0.1	<0.1
		Lindane (gamma BHC)	µg/L	0.1	<0.1
		Delta BHC	µg/L	0.1	<0.1
		Heptachlor	µg/L	0.1	<0.1
		Aldrin	µg/L	0.1	<0.1
		Isodrin	µg/L	0.1	<0.1
		Heptachlor epoxide	µg/L	0.1	<0.1
		Gamma Chlordane	µg/L	0.1	<0.1
		Alpha Chlordane	µg/L	0.1	<0.1
		Alpha Endosulfan	µg/L	0.1	<0.1
		p,p'-DDE	µg/L	0.1	<0.1
		Dieldrin	µg/L	0.1	<0.1
		Endrin	µg/L	0.1	<0.1
		Beta Endosulfan	µg/L	0.1	<0.1
		p,p'-DDD	µg/L	0.1	<0.1
		Endrin aldehyde	µg/L	0.1	<0.1
		Endosulfan sulphate	µg/L	0.1	<0.1
		p,p'-DDT	µg/L	0.1	<0.1
		Endrin ketone	µg/L	0.1	<0.1
		Methoxychlor	µg/L	0.1	<0.1
		Mirex	µg/L	0.1	<0.1
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	%	-	108

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB264576.001		Azinphos-methyl	µg/L	0.2	<0.2
		Bromophos Ethyl	µg/L	0.2	<0.2
		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	<0.2
		Diazinon (Dimpylate)	µg/L	0.5	<0.5
		Dichlorvos	µg/L	0.5	<0.5
		Dimethoate	µg/L	0.5	<0.5
		Ethion	µg/L	0.2	<0.2
		Fenitrothion	µg/L	0.2	<0.2
		Malathion	µg/L	0.2	<0.2
		Methidathion	µg/L	0.5	<0.5
		Parathion-ethyl (Parathion)	µg/L	0.2	<0.2
	Surrogates	2-fluorobiphenyl (Surrogate)	%	-	70
		d14-p-terphenyl (Surrogate)	%	-	82

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB264576.001	Naphthalene	µg/L	0.1	<0.1
	2-methylnaphthalene	µg/L	0.1	<0.1
	1-methylnaphthalene	µg/L	0.1	<0.1
	Acenaphthylene	µg/L	0.1	<0.1
	Acenaphthene	µg/L	0.1	<0.1
	Fluorene	µg/L	0.1	<0.1
	Phenanthrene	µg/L	0.1	<0.1
	Anthracene	µg/L	0.1	<0.1
	Fluoranthene	µg/L	0.1	<0.1
	Pyrene	µg/L	0.1	<0.1
	Benzo(a)anthracene	µg/L	0.1	<0.1
	Chrysene	µg/L	0.1	<0.1
	Benzo(a)pyrene	µg/L	0.1	<0.1

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

PAH (Polynuclear Aromatic Hydrocarbons) in Water (continued)

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result
LB264576.001		Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
		Dibenzo(ah)anthracene	µg/L	0.1	<0.1
		Benzo(ghi)perylene	µg/L	0.1	<0.1
	Surrogates	d5-nitrobenzene (Surrogate)	%	-	50
		2-fluorobiphenyl (Surrogate)	%	-	62
		d14-p-terphenyl (Surrogate)	%	-	72

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result
LB264576.001	Arochlor 1016	µg/L	1	<1
	Arochlor 1221	µg/L	1	<1
	Arochlor 1232	µg/L	1	<1
	Arochlor 1242	µg/L	1	<1
	Arochlor 1248	µg/L	1	<1
	Arochlor 1254	µg/L	1	<1
	Arochlor 1260	µg/L	1	<1
	Arochlor 1262	µg/L	1	<1
	Arochlor 1268	µg/L	1	<1

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result
LB264564.001	Arsenic	µg/L	1	<1
	Cadmium	µg/L	0.1	<0.1
	Chromium	µg/L	1	<1
	Copper	µg/L	1	<1
	Lead	µg/L	1	<1
	Nickel	µg/L	1	<1
	Zinc	µg/L	5	<5

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number	Parameter	Units	LOR	Result
LB264576.001	TRH C10-C14	µg/L	50	<50
	TRH C15-C28	µg/L	200	<200
	TRH C29-C36	µg/L	200	<200
	TRH C37-C40	µg/L	200	<200

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB264773.001	Monocyclic Aromatic Hydrocarbons	Benzene	µg/L	0.5	<0.5
		Toluene	µg/L	0.5	<0.5
		Ethylbenzene	µg/L	0.5	<0.5
		m/p-xylene	µg/L	1	<1
		o-xylene	µg/L	0.5	<0.5
	Polycyclic VOCs	Naphthalene (VOC)*	µg/L	0.5	<0.5
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	97
		d8-toluene (Surrogate)	%	-	97
		Bromofluorobenzene (Surrogate)	%	-	103

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result
LB264773.001		TRH C6-C9	µg/L	40	<40
	Surrogates	d4-1,2-dichloroethane (Surrogate)	%	-	97
		d8-toluene (Surrogate)	%	-	97
		Bromofluorobenzene (Surrogate)	%	-	103

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239401.002	LB264577.014	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	29
SE239445.030	LB264577.016	Mercury	µg/L	0.0001	<0.0001	<0.0001	200	40

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239398.004	LB264576.028		Naphthalene	µg/L	0.1	<0.1	<0.1	200	0
			2-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
			1-methylnaphthalene	µg/L	0.1	<0.1	<0.1	200	0
			Acenaphthylene	µg/L	0.1	<0.1	<0.1	200	0
			Acenaphthene	µg/L	0.1	<0.1	<0.1	200	0
			Fluorene	µg/L	0.1	<0.1	<0.1	200	0
			Phenanthrene	µg/L	0.1	<0.1	<0.1	190	0
			Anthracene	µg/L	0.1	<0.1	<0.1	200	0
			Fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
			Pyrene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(a)anthracene	µg/L	0.1	<0.1	<0.1	200	0
			Chrysene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(b&j)fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(k)fluoranthene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(a)pyrene	µg/L	0.1	<0.1	<0.1	200	0
			Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1	<0.1	200	0
			Dibenzo(ah)anthracene	µg/L	0.1	<0.1	<0.1	200	0
			Benzo(ghi)perylene	µg/L	0.1	<0.1	<0.1	200	0
		Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.2	0.2	30	5
			2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.3	30	13
			d14-p-terphenyl (Surrogate)	µg/L	-	0.5	0.4	30	22

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239398.009	LB264564.014	Arsenic	µg/L	1	<1	<1	200	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	<1	<1	200	0
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	200	0
SE239445.030	LB264564.018	Arsenic	µg/L	1	<1	<1	200	0
		Cadmium	µg/L	0.1	<0.1	<0.1	200	0
		Chromium	µg/L	1	<1	<1	200	0
		Copper	µg/L	1	<1	<1	200	0
		Lead	µg/L	1	<1	<1	200	0
		Nickel	µg/L	1	<1	<1	200	0
		Zinc	µg/L	5	<5	<5	200	0

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239288.001	LB264576.029		TRH C10-C14	µg/L	50	<50	<50	200	0
			TRH C15-C28	µg/L	200	<200	<200	200	0
			TRH C29-C36	µg/L	200	<200	<200	200	0
			TRH C37-C40	µg/L	200	<200	<200	200	0
			TRH C10-C40	µg/L	320	<320	<320	200	0
		TRH F Bands	TRH >C10-C16	µg/L	60	<60	<60	200	0
			TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60	<60	200	0
			TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
			TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0
SE239398.004	LB264576.028		TRH C10-C14	µg/L	50	91	85	87	7
			TRH C15-C28	µg/L	200	<200	<200	200	0
			TRH C29-C36	µg/L	200	<200	<200	200	0
			TRH C37-C40	µg/L	200	<200	<200	200	0
			TRH C10-C40	µg/L	320	<320	<320	200	0
		TRH F Bands	TRH >C10-C16	µg/L	60	91	85	98	7

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

TRH (Total Recoverable Hydrocarbons) in Water (continued)

Method: ME-(AU)-[ENV]AN403

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239398.004	LB264576.028	TRH F Bands	TRH >C10-C16 - Naphthalene (F2)	µg/L	60	91	85	98	7
			TRH >C16-C34 (F3)	µg/L	500	<500	<500	200	0
			TRH >C34-C40 (F4)	µg/L	500	<500	<500	200	0

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239401.002	LB264773.023	Monocyclic	Benzene	µg/L	0.5	<0.5	<0.5	200	0
		Aromatic	Toluene	µg/L	0.5	<0.5	<0.5	200	0
		Hydrocarbons	Ethylbenzene	µg/L	0.5	<0.5	<0.5	200	0
			m/p-xylene	µg/L	1	<1	<1	200	0
			o-xylene	µg/L	0.5	<0.5	<0.5	200	0
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	<0.5	<0.5	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.9	10.5	30	17
			d8-toluene (Surrogate)	µg/L	-	10.3	10.9	30	6
			Bromofluorobenzene (Surrogate)	µg/L	-	10.9	11.3	30	3
		Totals	Total BTEX	µg/L	3	<3	<3	200	0

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

Original	Duplicate		Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE239361.001	LB264773.022	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.0	10.7	30	29
			d8-toluene (Surrogate)	µg/L	-	10.0	10.8	30	8
			Bromofluorobenzene (Surrogate)	µg/L	-	11.0	11.1	30	1
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
SE239401.002	LB264773.023		TRH C6-C10	µg/L	50	<50	<50	200	0
			TRH C6-C9	µg/L	40	<40	<40	200	0
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.9	10.5	30	17
			d8-toluene (Surrogate)	µg/L	-	10.3	10.9	30	6
			Bromofluorobenzene (Surrogate)	µg/L	-	10.9	11.3	30	3
		VPH F Bands	Benzene (F0)	µg/L	0.5	<0.5	<0.5	200	0
			TRH C6-C10 minus BTEX (F1)	µg/L	50	<50	<50	200	0

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

OC Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264576.002		Delta BHC	µg/L	0.1	0.2	0.2	60 - 140	109
		Heptachlor	µg/L	0.1	0.2	0.2	60 - 140	109
		Aldrin	µg/L	0.1	0.2	0.2	60 - 140	89
		Dieldrin	µg/L	0.1	0.2	0.2	60 - 140	115
		Endrin	µg/L	0.1	0.2	0.2	60 - 140	117
		p,p'-DDT	µg/L	0.1	0.2	0.2	60 - 140	122
	Surrogates	Tetrachloro-m-xylene (TCMX) (Surrogate)	µg/L	-	0.15	0.15	40 - 130	101

OP Pesticides in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264576.002		Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.2	8.5	8	60 - 140	106
		Diazinon (Dimpylate)	µg/L	0.5	8.9	8	60 - 140	111
		Dichlorvos	µg/L	0.5	8.5	8	60 - 140	106
		Ethion	µg/L	0.2	7.9	8	60 - 140	99
	Surrogates	2-fluorobiphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	72
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	84

PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264576.002		Naphthalene	µg/L	0.1	29	40	60 - 140	73
		Acenaphthylene	µg/L	0.1	34	40	60 - 140	84
		Acenaphthene	µg/L	0.1	32	40	60 - 140	80
		Phenanthrene	µg/L	0.1	34	40	60 - 140	85
		Anthracene	µg/L	0.1	33	40	60 - 140	83
		Fluoranthene	µg/L	0.1	35	40	60 - 140	87
		Pyrene	µg/L	0.1	34	40	60 - 140	86
		Benzo(a)pyrene	µg/L	0.1	38	40	60 - 140	95
	Surrogates	d5-nitrobenzene (Surrogate)	µg/L	-	0.3	0.5	40 - 130	52
		2-fluorobiphenyl (Surrogate)	µg/L	-	0.3	0.5	40 - 130	64
		d14-p-terphenyl (Surrogate)	µg/L	-	0.4	0.5	40 - 130	70

PCBs in Water

Method: ME-(AU)-[ENV]AN420

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264576.002	Arochlor 1260	µg/L	1	<1	0.4	60 - 140	124

Trace Metals (Dissolved) in Water by ICPMS

Method: ME-(AU)-[ENV]AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264564.002	Arsenic	µg/L	1	20	20	80 - 120	99
	Cadmium	µg/L	0.1	21	20	80 - 120	103
	Chromium	µg/L	1	20	20	80 - 120	98
	Copper	µg/L	1	21	20	80 - 120	104
	Lead	µg/L	1	20	20	80 - 120	102
	Nickel	µg/L	1	20	20	80 - 120	102
	Zinc	µg/L	5	22	20	80 - 120	110

TRH (Total Recoverable Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN403

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264576.002		TRH C10-C14	µg/L	50	880	1200	60 - 140	73
		TRH C15-C28	µg/L	200	1200	1200	60 - 140	100
		TRH C29-C36	µg/L	200	1200	1200	60 - 140	98
	TRH F Bands	TRH >C10-C16	µg/L	60	1000	1200	60 - 140	83
		TRH >C16-C34 (F3)	µg/L	500	1300	1200	60 - 140	107
		TRH >C34-C40 (F4)	µg/L	500	580	600	60 - 140	97

VOCs in Water

Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264773.002	Monocyclic	Benzene	µg/L	0.5	50	45.45	60 - 140	110
	Aromatic	Toluene	µg/L	0.5	52	45.45	60 - 140	115
	Hydrocarbons	Ethylbenzene	µg/L	0.5	51	45.45	60 - 140	112
		m/p-xylene	µg/L	1	98	90.9	60 - 140	107
		o-xylene	µg/L	0.5	50	45.45	60 - 140	109
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.4	10	60 - 140	84

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

VOCs in Water (continued) — Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264773.002	Surrogates	d8-toluene (Surrogate)	µg/L	-	11.0	10	70 - 130	110
		Bromofluorobenzene (Surrogate)	µg/L	-	11.7	10	70 - 130	117

Volatile Petroleum Hydrocarbons in Water — Method: ME-(AU)-[ENV]AN433

Sample Number		Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB264773.002		TRH C6-C10	µg/L	50	1100	946.63	60 - 140	113
		TRH C6-C9	µg/L	40	960	818.71	60 - 140	117
	Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	8.4	10	60 - 140	84
		d8-toluene (Surrogate)	µg/L	-	11.0	10	70 - 130	110
		Bromofluorobenzene (Surrogate)	µg/L	-	11.7	10	70 - 130	117
	VPH F Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	770	639.67	60 - 140	121

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

VOCs in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239354.001	LB264773.021	Monocyclic	Benzene	µg/L	0.5	54	0	45.45	118
		Aromatic	Toluene	µg/L	0.5	53	0.005956499	45.45	117
		Hydrocarbons	Ethylbenzene	µg/L	0.5	52	0.003782555	45.45	115
			m/p-xylene	µg/L	1	100	0.007516333	90.9	113
			o-xylene	µg/L	0.5	51	0.004826002	45.45	113
		Polycyclic	Naphthalene (VOC)*	µg/L	0.5	54	0.008929610	-	-
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.8	9.925122046	-	108
			d8-toluene (Surrogate)	µg/L	-	10.9	9.877856135	-	109
			Bromofluorobenzene (Surrogate)	µg/L	-	10.7	10.29198770	-	107
		Totals	Total BTEX	µg/L	3	310	0	-	-

Volatile Petroleum Hydrocarbons in Water

Method: ME-(AU)-[ENV]AN433

QC Sample	Sample Number		Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE239354.001	LB264773.021		TRH C6-C10	µg/L	50	920	0	946.63	97
			TRH C6-C9	µg/L	40	810	0	818.71	99
		Surrogates	d4-1,2-dichloroethane (Surrogate)	µg/L	-	10.8	9.925122046	-	108
			d8-toluene (Surrogate)	µg/L	-	10.9	9.877856135	-	109
			Bromofluorobenzene (Surrogate)	µg/L	-	10.7	10.29198770	-	107
		VPH F	Benzene (F0)	µg/L	0.5		0	-	-
		Bands	TRH C6-C10 minus BTEX (F1)	µg/L	50	600	0	639.67	94

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

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CHAIN OF CUSTODY & ANALYSIS REQUEST

Page ____ of ____

SGS Environmental Services Sydney
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name:	K2 Consulting Group	Project Name/No:	ST-01-1533 (515 Crookwell Road, Kingsdale NSW 2580)
Address:	Suite 222 (Building B)	Purchase Order No:	
	20 Lexington Drive, Bella Vista NSW 2153	Results Required By:	
		Telephone:	
Contact Name:	Sirish Baniya	Facsimile:	
		Email Results:	sirish@k2consultinggroup.com.au; kannan@k2consultinggroup.com.au

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	CL17 (BTEXN/TRH/PAH/ OC/OP/PCB/8HM)
ST-01-1533-GW4	18/11/2022	1	X			4	X
ST-01-1533-GW5	18/11/2022	2	X			4	X

SGS EHS Sydney COC
SE239401

Relinquished By: Adi	Date/Time: 21/11/2022 (1pm)	Received By:	Date/Time 21.11.22 2.50pm
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: Yes/ No	Temperature: Ambient / Chilled 9.1	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:
	Comments:		

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

NATA Accredited
Accreditation Number 1261
Site Number 1254

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Attention: **Kannan Kaliappan**

Report **941274-S**
Project name 515 CROOKWELL ROAD KINGSDALE NSW 2580
Project ID ST-01-1533
Received Date Nov 11, 2022

Client Sample ID			**ST-01-1553-SR1**	**ST-01-1553-SR2**	**ST-01-1553-SR3**	**ST-01-1553-SR4**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-No0036334**	**M22-No0036335**	**M22-No0036336**	**M22-No0036337**
Date Sampled			**Nov 09, 2022**	**Nov 09, 2022**	**Nov 09, 2022**	**Nov 09, 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	%	56	84	58	98
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			ST-01-1553-SR1	ST-01-1553-SR2	ST-01-1553-SR3	ST-01-1553-SR4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-No0036334	M22-No0036335	M22-No0036336	M22-No0036337
Date Sampled			Nov 09, 2022	Nov 09, 2022	Nov 09, 2022	Nov 09, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	62	66	64	78
p-Terphenyl-d14 (surr.)	1	%	62	60	59	73
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	66	89	85	50
Tetrachloro-m-xylene (surr.)	1	%	81	64	60	87
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			ST-01-1553-SR1	ST-01-1553-SR2	ST-01-1553-SR3	ST-01-1553-SR4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-No0036334	M22-No0036335	M22-No0036336	M22-No0036337
Date Sampled			Nov 09, 2022	Nov 09, 2022	Nov 09, 2022	Nov 09, 2022
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
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	%	109	103	98	89
Heavy Metals						
Arsenic	2	mg/kg	5.8	14	3.4	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	170	82	180	44
Copper	5	mg/kg	35	< 5	50	6.6
Lead	5	mg/kg	21	42	11	21
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	67	6.3	110	6.9
Zinc	5	mg/kg	43	12	57	20
% Moisture	1	%	23	20	22	16

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
Eurofins Suite B10			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Nov 15, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Nov 15, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Nov 15, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Nov 15, 2022	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Melbourne	Nov 15, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Nov 15, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Nov 15, 2022	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270)			
Metals M8	Melbourne	Nov 15, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Melbourne	Nov 15, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			

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Company Name: K2 Enviro Solutions
Address: Suite 1A, Level 2, 802 Pacific Highway
Gordon
NSW 2768

Project Name: 515 CROOKWELL ROAD KINGSDALE NSW 2580
Project ID: ST-01-1533

Order No.:
Report #: 941274
Phone: 0449 669 559
Fax:

Received: Nov 11, 2022 3:02 PM
Due: Nov 18, 2022
Priority: 5 Day
Contact Name: Kannan Kaliappan

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Moisture Set	Eurofins Suite B10
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	ST-01-1553-SR1	Nov 09, 2022		Soil	M22-No0036334	X	X
2	ST-01-1553-SR2	Nov 09, 2022		Soil	M22-No0036335	X	X
3	ST-01-1553-SR3	Nov 09, 2022		Soil	M22-No0036336	X	X
4	ST-01-1553-SR4	Nov 09, 2022		Soil	M22-No0036337	X	X
Test Counts						4	4

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

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.
TBTO	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.

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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							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	114			70-130	Pass	
TRH C10-C14	%	109			70-130	Pass	
Naphthalene	%	94			70-130	Pass	
TRH C6-C10	%	113			70-130	Pass	
TRH >C10-C16	%	119			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	95			70-130	Pass	
Ethylbenzene	%	108			70-130	Pass	
m&p-Xylenes	%	109			70-130	Pass	
Xylenes - Total*	%	109			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	104			70-130	Pass	
Acenaphthylene	%	89			70-130	Pass	
Anthracene	%	115			70-130	Pass	
Benz(a)anthracene	%	95			70-130	Pass	
Benzo(a)pyrene	%	79			70-130	Pass	
Benzo(b&j)fluoranthene	%	125			70-130	Pass	
Benzo(g.h.i)perylene	%	82			70-130	Pass	
Benzo(k)fluoranthene	%	116			70-130	Pass	
Chrysene	%	87			70-130	Pass	
Dibenz(a.h)anthracene	%	102			70-130	Pass	
Fluoranthene	%	95			70-130	Pass	
Fluorene	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	94			70-130	Pass	
Naphthalene	%	82			70-130	Pass	
Phenanthrene	%	129			70-130	Pass	
Pyrene	%	88			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	107			70-130	Pass	
4.4'-DDD	%	123			70-130	Pass	
4.4'-DDE	%	111			70-130	Pass	
4.4'-DDT	%	76			70-130	Pass	
a-HCH	%	106			70-130	Pass	
Aldrin	%	112			70-130	Pass	
b-HCH	%	115			70-130	Pass	
d-HCH	%	110			70-130	Pass	
Dieldrin	%	118			70-130	Pass	
Endosulfan I	%	117			70-130	Pass	
Endosulfan II	%	116			70-130	Pass	
Endosulfan sulphate	%	102			70-130	Pass	
Endrin	%	119			70-130	Pass	
Endrin aldehyde	%	106			70-130	Pass	
Endrin ketone	%	114			70-130	Pass	
g-HCH (Lindane)	%	96			70-130	Pass	
Heptachlor	%	107			70-130	Pass	
Heptachlor epoxide	%	103			70-130	Pass	
Hexachlorobenzene	%	107			70-130	Pass	
Methoxychlor	%	85			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	103			70-130	Pass	
Dimethoate	%	101			70-130	Pass	
Ethion	%	90			70-130	Pass	
Fenitrothion	%	83			70-130	Pass	
Methyl parathion	%	89			70-130	Pass	
Mevinphos	%	127			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	106			80-120	Pass	
Cadmium	%	109			80-120	Pass	
Chromium	%	110			80-120	Pass	
Copper	%	109			80-120	Pass	
Lead	%	110			80-120	Pass	
Mercury	%	105			80-120	Pass	
Nickel	%	106			80-120	Pass	
Zinc	%	106			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	L22-No0018671	NCP	%	124			70-130	Pass	
TRH C10-C14	M22-No0032894	NCP	%	83			70-130	Pass	
Naphthalene	L22-No0018671	NCP	%	98			70-130	Pass	
TRH C6-C10	L22-No0018671	NCP	%	124			70-130	Pass	
TRH >C10-C16	M22-No0032894	NCP	%	81			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Toluene	L22-No0018671	NCP	%	77			70-130	Pass	
Ethylbenzene	L22-No0018671	NCP	%	81			70-130	Pass	
m&p-Xylenes	L22-No0018671	NCP	%	82			70-130	Pass	
o-Xylene	L22-No0018671	NCP	%	82			70-130	Pass	
Xylenes - Total*	L22-No0018671	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M22-No0034383	NCP	%	100			70-130	Pass	
4.4'-DDD	M22-No0034383	NCP	%	120			70-130	Pass	
4.4'-DDE	M22-No0034383	NCP	%	81			70-130	Pass	
4.4'-DDT	M22-No0034383	NCP	%	91			70-130	Pass	
a-HCH	M22-No0034383	NCP	%	91			70-130	Pass	
Aldrin	M22-No0034383	NCP	%	76			70-130	Pass	
b-HCH	M22-No0034383	NCP	%	72			70-130	Pass	
d-HCH	M22-No0034383	NCP	%	77			70-130	Pass	
Dieldrin	M22-No0034383	NCP	%	72			70-130	Pass	
Endosulfan I	M22-No0034383	NCP	%	84			70-130	Pass	
Endosulfan II	M22-No0034383	NCP	%	81			70-130	Pass	
Endosulfan sulphate	M22-No0034383	NCP	%	83			70-130	Pass	
Endrin	M22-No0034383	NCP	%	82			70-130	Pass	
Endrin aldehyde	M22-No0034383	NCP	%	82			70-130	Pass	
Endrin ketone	M22-No0034383	NCP	%	79			70-130	Pass	
g-HCH (Lindane)	M22-No0034383	NCP	%	81			70-130	Pass	
Heptachlor	M22-No0034383	NCP	%	83			70-130	Pass	
Heptachlor epoxide	M22-No0034383	NCP	%	78			70-130	Pass	
Hexachlorobenzene	M22-No0034383	NCP	%	78			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methoxychlor	M22-No0034383	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	M22-No0031839	NCP	%	119			70-130	Pass	
Dimethoate	M22-No0031839	NCP	%	75			70-130	Pass	
Ethion	M22-No0031839	NCP	%	120			70-130	Pass	
Fenitrothion	M22-No0031839	NCP	%	120			70-130	Pass	
Methyl parathion	M22-No0031839	NCP	%	108			70-130	Pass	
Mevinphos	M22-No0031839	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M22-No0038293	NCP	%	94			75-125	Pass	
Cadmium	M22-No0036416	NCP	%	101			75-125	Pass	
Chromium	M22-No0036416	NCP	%	125			75-125	Pass	
Copper	M22-No0036416	NCP	%	117			75-125	Pass	
Lead	M22-No0036416	NCP	%	116			75-125	Pass	
Mercury	M22-No0036416	NCP	%	110			75-125	Pass	
Nickel	M22-No0036416	NCP	%	113			75-125	Pass	
Zinc	M22-No0036416	NCP	%	121			75-125	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	L22-No0027610	NCP	%	94			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M22-No0026137	NCP	%	88			70-130	Pass	
Acenaphthylene	M22-No0026137	NCP	%	84			70-130	Pass	
Anthracene	M22-No0026137	NCP	%	85			70-130	Pass	
Benz(a)anthracene	M22-No0026137	NCP	%	99			70-130	Pass	
Benzo(a)pyrene	M22-No0026137	NCP	%	114			70-130	Pass	
Benzo(b&j)fluoranthene	M22-No0026137	NCP	%	92			70-130	Pass	
Benzo(g.h.i)perylene	M22-No0026137	NCP	%	94			70-130	Pass	
Benzo(k)fluoranthene	M22-No0026137	NCP	%	124			70-130	Pass	
Chrysene	M22-No0026137	NCP	%	119			70-130	Pass	
Dibenz(a.h)anthracene	M22-No0026137	NCP	%	92			70-130	Pass	
Fluoranthene	M22-No0026137	NCP	%	83			70-130	Pass	
Fluorene	M22-No0026137	NCP	%	86			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M22-No0026137	NCP	%	100			70-130	Pass	
Naphthalene	M22-No0026137	NCP	%	87			70-130	Pass	
Phenanthrene	M22-No0026137	NCP	%	71			70-130	Pass	
Pyrene	M22-No0026137	NCP	%	89			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			
Arsenic	M22-No0036416	NCP	mg/kg	8.1	8.0	1.1	30%	Pass	
Cadmium	M22-No0036416	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M22-No0036416	NCP	mg/kg	25	25	1.3	30%	Pass	
Copper	M22-No0036416	NCP	mg/kg	19	19	<1	30%	Pass	
Lead	M22-No0036416	NCP	mg/kg	10	10	<1	30%	Pass	
Mercury	M22-No0036416	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M22-No0036416	NCP	mg/kg	39	39	<1	30%	Pass	
Zinc	M22-No0036416	NCP	mg/kg	41	40	1.4	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M22-No0036336	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M22-No0036336	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M22-No0036336	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M22-No0036336	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M22-No0036336	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M22-No0036336	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M22-No0036336	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M22-No0036336	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M22-No0036336	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M22-No0036336	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M22-No0036336	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M22-No0036336	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M22-No0036336	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M22-No0036336	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Heptachlor epoxide	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M22-No0036336	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M22-No0036336	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	M22-No0036336	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	M22-No0036336	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	M22-No0036336	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	M22-No0036336	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M22-No0036337	CP	%	16	17	1.5	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised by:

Andrew Black	Analytical Services Manager
Mary Makarios	Senior Analyst-Metal
Linda Chouman	Senior Analyst-Sample Properties
Edward Lee	Senior Analyst-Organic
Harry Bacalis	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.

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Address: Suite 1A, Level 2, 802 Pacific Highway
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NSW 2768

Project Name: 515 CROOKWELL ROAD KINGSDALE NSW 2580
Project ID: ST-01-1533

Order No.:
Report #: 941274
Phone: 0449 669 559
Fax:

Received: Nov 11, 2022 3:02 PM
Due: Nov 18, 2022
Priority: 5 Day
Contact Name: Kannan Kaliappan

Eurofins Analytical Services Manager : Hannah Mawbey

Sample Detail						Moisture Set	Eurofins Suite B10
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	ST-01-1553-SR1	Nov 09, 2022		Soil	M22-No0036334	X	X
2	ST-01-1553-SR2	Nov 09, 2022		Soil	M22-No0036335	X	X
3	ST-01-1553-SR3	Nov 09, 2022		Soil	M22-No0036336	X	X
4	ST-01-1553-SR4	Nov 09, 2022		Soil	M22-No0036337	X	X
Test Counts						4	4

Appendix VIII

Calibration Certificates

Calibration & Service Report
Water Quality Meter

Company:	Active Environmental Solutions Hire	**Manufacturer:**	YSI	**Serial #:**	18K102295
Address:	Unit 16, 191 Parramatta Road AUBURN NSW 2144	**Instrument/Model:**	WQM Professional Plus w/ Quatro Cable	**Cable Length:**	1m
Phone:	02 9716 5966 | **Fax:** 02 9716 5988	**Client Company:**		**Client Email:**	
Email:	hire@aesoultions.com.au	**Client Name:**		**Client Phone:**	

Item	Test	Pass	Comments
Battery	2 x Alkaline C-cells	✓	Voltage reading above 2.9V
	Battery Saver	✓	Automatically turns off after 60 minutes if not used
Connections	Condition	✓	Good, clean
Cable	Condition	✓	Clean, no tears
Display	Operation	✓	
Firmware	Version	✓	4.0.0
Keypad	Operational	✓	
Display	Screen	✓	
Unit	Condition, seals and O-rings	✓	
Monitor housing	Condition	✓	
pH			
Condition		✓	Good, clean
pH millivolts for pH7 calibration range 0 mV ± 50 mV		✓	
pH 4 mV range + 165 to + 180 from 7 buffer mV value		✓	
pH slope		✓	55 to 60 mV/pH; ideal 59mV
Response time < 90 seconds		✓	
Calibrated and conforms to manufacturer's specifications		✓	
ORP			
Condition		✓	Good, clean
Response time < 90 seconds		✓	
within ± 80mv of reference Zobell Reading		✓	
Calibrated and conforms to manufacturer's specifications		✓	Variance range ± 20mV
Conductivity			
Condition		✓	Good, clean
Temperature		✓	°C
Conductivity cell constant 5.0 ± 1.0 in GLP file		✓	
Clean sensor reads less than 3 uS/cm in dry air		✓	
Calibrated and conforms to manufacturer's specifications		✓	µs/cm
Dissolved Oxygen			
Condition		✓	Good, clean
DO sensor in use		✓	Galvanic
1.25 mil PE membrane (yellow membrane):		✓	
DO Sensor Value		✓	(min 4.31 uA - max 8.00 uA) Avg 6.15 uA
Calibrated and conforms to manufacturer's specifications		✓	ppm

				Instrument Readings		
Parameter	**Standards**	**Reference**	**Calibration Point**	**Before**	**After**	**Units**
Temperature	Center 370 Thermometer	Room Temp.	15	N/A	14.8	°C
pH	pH 4.00	378644	4.00	4.26	4.00	pH
pH	pH 7.00	378645	7.02	7.18	7.02	pH
Conductivity	2760 µs/cm at 25°C	378284	2549	2717	2549	µs/cm
ORP (Ref. check only)	Zobell solution	367761	231.1	225.7	231.1	mV
Zero Dissolved Oxygen	NaSO3 in distilled water	-	0.0	0.3	0.0	%
100% Dissolved Oxygen	100% Air Saturation	Fresh Air	100.0	124	100.3	%

Calibrated By: Satheesh Mani

Calibration Date: 14 June 2022 **Calibration Due:** 14 December 2022

Calibration & Service Report
Water Quality Meter

Company:	Active Environmental Solutions Hire	**Manufacturer:**	YSI	**Serial #:**	18K102295
Address:	Unit 16, 191 Parramatta Road AUBURN NSW 2144	**Instrument/Model:**	WQM Professional Plus w/ Quatro Cable	**Cable Length:**	19J100002, 1M
Phone:	02 9716 5966 | **Fax:** 02 9716 5988	**Client Company:**		**Client Email:**	
Email:	hire@aesoultions.com.au	**Client Name:**		**Client Phone:**	

Item	Test	Pass	Comments
Battery	2 x Alkaline C-cells	✓	Voltage reading above 2.9V
	Battery Saver	✓	Automatically turns off after 60 minutes if not used
Connections	Condition	✓	Good, clean
Cable	Condition	✓	Clean, no tears
Display	Operation	✓	
Firmware	Version	✓	4.0.0
Keypad	Operational	✓	
Display	Screen	✓	
Unit	Condition, seals and O-rings	✓	
Monitor housing	Condition	✓	
pH			
Condition		✓	Good, clean
pH millivolts for pH7 calibration range 0 mV ± 50 mV		✓	
pH 4 mV range + 165 to + 180 from 7 buffer mV value		✓	
pH slope		✓	55 to 60 mV/pH; ideal 59mV
Response time < 90 seconds		✓	
Calibrated and conforms to manufacturer's specifications		✓	
ORP			
Condition (changed on 15/12/22)		✓	Good, clean
Response time < 90 seconds		✓	
within ± 80mv of reference Zobell Reading		✓	
Calibrated and conforms to manufacturer's specifications		✓	Variance range ± 20mV
Conductivity			
Condition		✓	Good, clean
Temperature		✓	°C
Conductivity cell constant 5.0 ± 1.0 in GLP file		✓	
Clean sensor reads less than 3 uS/cm in dry air		✓	
Calibrated and conforms to manufacturer's specifications		✓	µs/cm
Dissolved Oxygen			
Condition		✓	Good, clean
DO sensor in use		✓	Galvanic
1.25 mil PE membrane (yellow membrane):		✓	
DO Sensor Value		✓	(min 4.31 uA - max 8.00 uA) Avg 6.15 uA
Calibrated and conforms to manufacturer's specifications		✓	ppm

				Instrument Readings		
Parameter	**Standards**	**Reference**	**Calibration Point**	**Before**	**After**	**Units**
Temperature	Center 370 Thermometer	Room Temp.	22	N/A	22.1	°C
pH	pH 4.00	378644	4.00	4.15	4.00	pH
pH	pH 7.00	378645	7.00	7.08	7.00	pH
Conductivity	2760 µs/cm at 25°C	378284	2760	2799	2760	µs/cm
ORP (Ref. check only)	Zobell solution	367761	235.6	253.1	235.6	mV
Zero Dissolved Oxygen	NaSO3 in distilled water	-	0.0	0.2	0.0	%
100% Dissolved Oxygen	100% Air Saturation	Fresh Air	100.0	95.3	99.3	%

Calibrated By: Satheesh Mani

Calibration Date: 15 Dec 2022 **Calibration Due:** 15 June 2023

Appendix IX

Groundwater Field Parameters

Sampled Date – 18/11/2022										Sampled By	Sirish Baniya
Well ID	GW4									Sample IDs	ST-01-1533-GW4
Time (hrs)	Parameters									Flow/ Purge Rate (L/min)	Additional Observations
	Volume removed (L)	Temperature (°C)	pH	Specific Conductance (µS/cm)	Total Dissolved Solids (TDS)	Dissolved Oxygen (DO) (%)	ORP (mV)	Turbidity (NTU)	Standing Water Level (m)		
14:09	1	16.8	6.93	488.1	NA	81.2	150.4	NA	1.9	0.5	
14:11	2	17.2	6.83	489.6	NA	88.9	151.5	NA	1.95	0.5	
14:13	3	17.7	6.91	491.1	NA	89.2	146.7	NA	1.99	0.5	
14:15	4	18.1	7.06	496.2	NA	88.6	140.9	NA	2.02	0.5	
14:17	5	18.4	7.19	502	NA	78.6	136.1	NA	2.05	0.5	
14:19	6	18.9	7.28	510	NA	84.3	132.1	NA	2.09	0.5	
14:21	7	19.3	7.40	516	NA	64	129	NA	2.11	0.5	
14:23	8	19.3	7.38	518	NA	62.1	133.6	NA	2.14	0.5	
14:25	9	20.4	7.48	537	NA	82.8	128.1	NA	2.23	0.5	
14:27	10	17.8	7.04	516	NA	83	134.7	NA	2.35	0.5	
14:29	11	18.8	7.12	526	NA	87.6	133.4	NA	2.25	0.5	
14:31	12	17.5	7.12	504	NA	89.9	128.1	NA	2.30	0.5	
14:33	13	18.6	7.11	514	NA	91.6	131.3	NA	2.36	0.5	
14:35	14	16.0	7.12	458.4	NA	91.5	133.3	NA	2.6	0.5	

Sampled Date – 18/11/2022										Sampled By	Sirish Baniya
Well ID	GW5									Sample IDs	ST-01-1533-GW5
Time	Parameters									Flow/ Purge Rate (L/min)	Additional Observations
	Volume removed (L)	Temperature (°C)	pH	Specific Conductance (µS/cm)	Total Dissolved Solids (TDS)	Dissolved Oxygen (DO) (%)	ORP (mV)	Turbidity (NTU)	Standing Water Level (m)		
15:09	1	16.9	7.04	3818	NA	116.1	158.3	NA	1.43	0.5	
15:11	2	17.1	7.29	3861	NA	74	152.7	NA	1.63	0.5	
15:13	3	17.9	7.28	3892	NA	80.8	160.0	NA	1.65	0.5	
15:15	4	17.9	7.29	3917	NA	82.1	157.6	NA	1.65	0.5	
15:17	5	18.2	7.32	3970	NA	79.1	155.2	NA	1.68	0.5	
15:19	6	18.3	7.34	3989	NA	76.7	153.0	NA	1.68	0.5	
15:21	7	18.01	7.36	3213	NA	82.0	150.6	NA	1.72	0.5	
15:23	8	17.6	7.26	2545	NA	81.0	149.8	NA	1.76	0.5	
15:25	9	18.0	7.32	2253	NA	83.1	148.8	NA	1.78	0.5	
15:27	10	16.2	7.23	2861	NA	86.9	144.1	NA	1.78	0.5	
15:29	11	16.3	7.13	3110	NA	81.9	143.1	NA	1.78	0.5	
15:31	12	16.4	7.12	3680	NA	78.1	140.3	NA	1.78	0.5	
15:33	13	16.3	7.12	3729	NA	76.0	139.2	NA	1.79	0.5	
15:35	14	16.3	7.11	3991	NA	74.0	138.3	NA	1.78	0.5	

Sampled Date – 25/11/2022										Sampled By	Sirish Baniya
Well ID	GW4									Sample IDs	ST-01-1533-GW4(2)
Time	Parameters									Flow/ Purge Rate (L/min)	Additional Observations
	Volume removed (L)	Temperature (°C)	pH	Specific Conductance (µS/cm)	Total Dissolved Solids (TDS)	Dissolved Oxygen (DO) (%)	ORP (mV)	Turbidity (NTU)	Standing Water Level (m)		
10:10	1	16.9	7.17	591.7	NA	39.79	67.1	NA	2.11	0.5	
10:12	2	16.7	6.96	603	NA	45.0	64	NA	2.14	0.5	
10:14	3	17.2	7.04	607	NA	45.2	63.6	NA	2.21	0.5	
10:16	4	16.6	6.95	617	NA	48.7	64.6	NA	2.43	0.5	
10:18	5	17.0	7.25	579.7	NA	38.9	63.1	NA	2.7	0.5	
10:20	6	16.2	7.40	581.1	NA	25.6	64.6	NA	3.2	0.5	Slightly murky water
10:22	7	16.4	7.35	574.6	NA	28.8	64.6	NA	3.69	0.5	
10:24	8	16.2	7.46	575.7	NA	28.7	66.4	NA	4.08	0.5	
10:26	9	17.2	7.55	573.6	NA	42.4	64.9	NA	4.35	0.5	
10:36	10	17.5	7.62	577.9	NA	47.8	45.8	NA	2.09	0.5	
10:38	11	17.2	7.42	577	NA	45.2	42.1	NA	2.2	0.5	
10:40	12	17.3	7.41	577.1	NA	43.8	42.8	NA	2.32	0.5	
10:42	13	17.2	7.33	582.7	NA	43.64	44.3	NA	2.04	0.5	
10:44	14	17.3	7.32	582.9	NA	45.6	45.8	NA	2.4	0.5	
10:46	15	16.5	7.32	584.8	NA	48.9	45.7	NA	2.55	0.5	
10:48	16	16.7	7.31	577.7	NA	47.1	41.6	NA	2.7	0.5	

Sampled Date – 25/11/2022										Sampled By	Sirish Baniya
Well ID	GW5									Sample IDs	ST-01-1533-GW5(2)
Time	Parameters									Flow/ Purge Rate (L/min)	Additional Observations
	Volume removed (L)	Temperature (°C)	pH	Specific Conductance (µS/cm)	Total Dissolved Solids (TDS)	Dissolved Oxygen (DO) (%)	ORP (mV)	Turbidity (NTU)	Standing Water Level (m)		
12:08	1	18.7	7.55	3260	NA	48.0	8.7	NA	1.2	0.5	
12:08	2	17.9	7.52	3230	NA	42.81	10.0	NA	1.47	0.5	
12:08	3	17.8	7.54	3287	NA	44.0	10.6	NA	1.72	0.5	
12:08	4	17.6	7.53	3375	NA	41.6	11.4	NA	1.79	0.5	
12:08	5	17.6	7.55	3363	NA	41.3	12.5	NA	1.74	0.5	
12:08	6	17.5	7.50	3522	NA	37.5	13.1	NA	1.8	0.5	
12:08	7	17.5	7.47	3647	NA	34.3	12.9	NA	1.84	0.5	
12:08	8	17.5	7.46	3607	NA	34.7	14.1	NA	1.74	0.5	
12:08	9	17.4	7.46	3650	NA	34.3	14.4	NA	1.78	0.5	
12:08	10	17.3	7.46	3660	NA	34.7	14.2	NA	1.8	0.5	

Sampled Date – 10/01/2023										Sampled By	Sirish Baniya
Well ID	GW4									Sample IDs	ST-01-1533-GW4(3)
Time	Parameters									Flow/ Purge Rate (L/min)	Additional Observations
	Volume removed (L)	Temperature (°C)	pH	Specific Conductance (µS/cm)	Total Dissolved Solids (TDS)	Dissolved Oxygen (DO) (%)	ORP (mV)	Turbidity (NTU)	Standing Water Level (m)		
10:36	1	19.0	7.36	630	NA	29	4.8	NA	3.91	0.5	
10:38	2	17.6	7.23	623	NA	230.3	47.3	NA	4.29	0.5	
10:40	3	17.9	7.25	622	NA	35.2	47.7	NA	5.2	0.5	
10:42	4	181	7.39	629	NA	22.5	36.1	NA	5.3	0.5	
10:44	5	17.6	7.41	628	NA	19.5	34.7	NA	5.33	0.5	
10:46	6	17.1	7.37	627	NA	17.7	36.4	NA	5.6	0.5	
10:48	7	17.1	7.32	628	NA	21.9	36.8	NA	5.88	0.5	
10:50	8	18.7	7.28	631	NA	38.6	33.7	NA	6.45	0.5	
After 2 hours											
13:02	9	19.3	7.44	624	NA	58.6	33.4	NA	4.45	0.5	
13:04	10	20.7	7.34	631	NA	46.1	18.9	NA	4.8	0.5	
13:06	11	18.3	7.38	642	NA	39.5	4..1	NA	5.3	0.5	
13:08	12	18.4	7.41	631	NA	38.2	5.6	NA	5.8	0.5	
13:10	13	22.0	7.43	620	NA	35.9	17.2	NA	6.08	0.5	
13:12	14	20.1	7.75	612	NA	24.5	32.5	NA	6.35	0.5	
13:14	15	22.3	7.57	616	NA	55.9	32.4	NA	6.45	0.5	
After 1 hour											
14:19	16	19.4	7.75	637	NA	57.99	2.4	NA	5.7	0.5	
14:21	17	18.7	7.52	633	NA	57.4	1.0	NA	6.0	0.5	
14:23	18	19.4	7.52	621	NA	62.2	10.3	NA	6.45	0.5	
After 0.5 hours											
14:59	19	20.6	7.68	637	NA	57.9	1.7	NA	6.2	0.5	
15:01	20	21.4	7.62	635	NA	50.4	2.7	NA	6.5	0.5	

Sampled Date – 10/01/2023										Sampled By	Sirish Baniya
Well ID	GW5									Sample IDs	ST-01-1533-GW5(3)
Time	Parameters									Flow/ Purge Rate (L/min)	Additional Observations
	Volume removed (L)	Temperature (°C)	pH	Specific Conductance (µS/cm)	Total Dissolved Solids (TDS)	Dissolved Oxygen (DO) (%)	ORP (mV)	Turbidity (NTU)	Standing Water Level (m)		
11:36	1	19.2	7.23	4916	NA	33.0	23.5	NA	2.5	0.5	
11:38	2	19.1	7.38	4700	NA	36.7	16.1	NA	2.8	0.5	
11:40	3	18.3	7.37	4803	NA	32.1	12.6	NA	3.14	0.5	Murky water
11:42	4	18.4	7.41	4627	NA	40	9.1	NA	3.44	0.5	
11:44	5	20.1	7.46	4658	NA	54.8	8.3	NA	3.6	0.5	
11:48	7	19.9	7.48	4451	NA	37.1	10.2	NA	3.3	0.5	
11:50	8	18.8	7.45	4455	NA	37.5	10.1	NA	3.53	0.5	
11:52	9	21.3	7.44	3914	NA	45.2	7.5	NA	3.61	0.5	
11:54	10	21.8	7.49	3362	NA	32.8	5.3	NA	3.8	0.5	
11:56	11	19.6	7.42	3443	NA	30.8	6.5	NA	3.8	0.5	
11:58	12	21.2	7.43	2839	NA	33.1	6.1	NA	3.6	0.5	
12:00	14	21.6	7.44	3040	NA	34.6	8.9	NA	3.73	0.5	
12:02	15	18.7	7.46	2955	NA	32.3	2.8	NA	3.82	0.5	
12:04	16	18.7	7.48	2380	NA	29.2	2.7	NA	3.85	0.5	
12:06	17	19.7	7.43	2912	NA	29.0	3.9	NA	3.89	0.5	
12:08	18	19.9	7.47	2674	NA	29.2	0.9	NA	3.9	0.5	
12:10	19	21.3	7.54	2228	NA	37.7	10.5	NA	3.4	0.5	
12:12	20	19.2	7.52	2058	NA	34.1	9.2	NA	3.54	0.5	
12:14	21	19.4	7.52	1784	NA	30.0	12.3	NA	3.56	0.5	
12:16	22	20.2	7.52	1744	NA	30.3	12.9	NA	3.5	0.5	

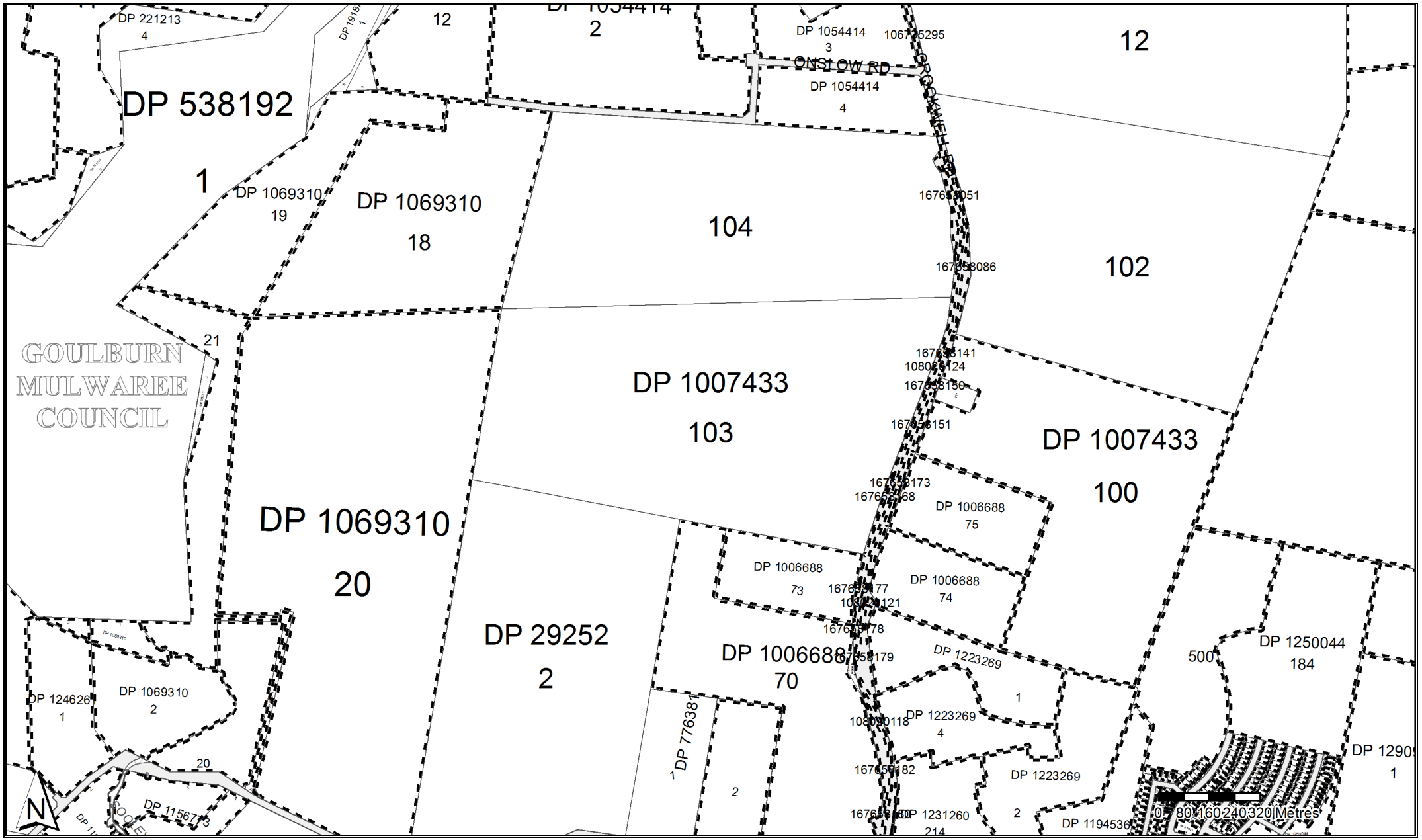
Appendix X

Historical Title Search

Cadastral Records Enquiry Report : Lot 103 DP 1007433

Ref : NOUSER

Locality : KINGSDALE
Parish : NARRANGARRIL
LGA : GOULBURN MULWAREE
County : ARGYLE



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	Status	Surv/Comp	Purpose
DP591422			
Lot(s): 3			
DP1171370	REGISTERED	SURVEY	EASEMENT
NSW GAZ. 01-02-2013 Folio : 264 ACQUIRED FOR COUNCIL PURPOSES EASEMENT FOR A WATER PIPELINE OVER THE SITE DESIGNATED (A) SHOWN IN DP1171370			
NSW GAZ. 03-09-2013 Folio : 3945 ACQUIRED FOR COUNCIL PURPOSES EASEMENT RIGHTS FOR PIPELINE AND WATER SUPPLY DESIGNATED (A) DESIGNATED IN DP1171370			
DP776381			
Lot(s): 2			
DP1171370	REGISTERED	SURVEY	EASEMENT
NSW GAZ. 01-02-2013 Folio : 264 ACQUIRED FOR COUNCIL PURPOSES EASEMENT FOR A WATER PIPELINE OVER THE SITE DESIGNATED (A) SHOWN IN DP1171370			
DP916825			
Lot(s): 1			
DP1159489	REGISTERED	SURVEY	EASEMENT
NSW GAZ. 20-06-2011 Folio : 4499 PROPOSED EASEMENT FOR PIPELINE AND WATER SUPPLY 20 WIDE SHOWN IN DP1159489 ACQUIRED FOR A WATER PIPELINE			
DP1006688			
Lot(s): 70, 73, 74, 75			
DP1171370	REGISTERED	SURVEY	EASEMENT
NSW GAZ. 01-02-2013 Folio : 264 ACQUIRED FOR COUNCIL PURPOSES EASEMENT FOR A WATER PIPELINE OVER THE SITE DESIGNATED (A) SHOWN IN DP1171370			
Lot(s): 70			
DP1159489	REGISTERED	SURVEY	EASEMENT
Lot(s): 73, 83			
DP776381	HISTORICAL	SURVEY	SUBDIVISION
Lot(s): 74, 75			
DP562173	HISTORICAL	SURVEY	SUBDIVISION
DP1007433			
Lot(s): 100			
DP1171370	REGISTERED	SURVEY	EASEMENT
NSW GAZ. 01-02-2013 Folio : 264 ACQUIRED FOR COUNCIL PURPOSES EASEMENT FOR A WATER PIPELINE OVER THE SITE DESIGNATED (A) SHOWN IN DP1171370			
DP1020257			
Lot(s): 3, 6			
DP825405	HISTORICAL	SURVEY	SUBDIVISION
Lot(s): 3			
DP566652	HISTORICAL	SURVEY	SUBDIVISION
DP1054414			
Lot(s): 1, 2, 3, 4			
DP593449	HISTORICAL	SURVEY	SUBDIVISION
DP1013381	HISTORICAL	SURVEY	SUBDIVISION
DP1069310			
Lot(s): 3			
DP1246261	REGISTERED	COMPILATION	SUBDIVISION
Lot(s): 8, 9, 11			
DP112435	HISTORICAL	COMPILATION	DEPARTMENTAL
DP707646	HISTORICAL	SURVEY	SUBDIVISION
DP1008018	HISTORICAL	SURVEY	ROADS ACT, 1993
DP1018901	HISTORICAL	SURVEY	SUBDIVISION
DP1067552	HISTORICAL	SURVEY	SUBDIVISION

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	Status	Surv/Comp	Purpose
Lot(s): 12			
DP1054414	HISTORICAL	SURVEY	SUBDIVISION
NSW GAZ. 29-02-2008 VESTED IN COUNCIL LOT 10 DP1069310			Folio : 1393
Lot(s): 8, 9, 11, 12			
DP1013381	HISTORICAL	SURVEY	SUBDIVISION
Lot(s): 1, 2, 3			
DP836697	HISTORICAL	SURVEY	SUBDIVISION
Lot(s): 12, 18, 19			
DP593449	HISTORICAL	SURVEY	SUBDIVISION
Lot(s): 20, 21, 23			
DP221213	HISTORICAL	SURVEY	SUBDIVISION
DP1156773			
Lot(s): 1, 2			
DP772	HISTORICAL	SURVEY	UNRESEARCHED
DP807233	HISTORICAL	SURVEY	RESUMPTION OR ACQUISITION
DP1194536			
Lot(s): 1			
DP1006688	HISTORICAL	SURVEY	ROADS ACT, 1993
DP1162160	HISTORICAL	SURVEY	SUBDIVISION
DP1222910			
Lot(s): 4113			
DP632246	HISTORICAL	SURVEY	SUBDIVISION
DP663180	HISTORICAL	COMPILATION	DEPARTMENTAL
DP1112492	HISTORICAL	SURVEY	ROADS ACT, 1993
DP1115179	HISTORICAL	SURVEY	SUBDIVISION
DP1123715	HISTORICAL	SURVEY	SUBDIVISION
DP1128589	HISTORICAL	SURVEY	ROADS ACT, 1993
DP1137540	HISTORICAL	SURVEY	SUBDIVISION
DP1149940	HISTORICAL	SURVEY	SUBDIVISION
DP1167563	HISTORICAL	SURVEY	SUBDIVISION
DP1190984	HISTORICAL	SURVEY	SUBDIVISION
DP1218431	HISTORICAL	SURVEY	SUBDIVISION
DP1223269			
Lot(s): 1, 2, 4			
DP1006688	HISTORICAL	SURVEY	ROADS ACT, 1993
DP1162160	HISTORICAL	SURVEY	SUBDIVISION
DP1194536	HISTORICAL	SURVEY	SUBDIVISION
DP1231260			
Lot(s): 214			
DP1006688	HISTORICAL	SURVEY	ROADS ACT, 1993
DP1162160	HISTORICAL	SURVEY	SUBDIVISION
DP1194536	HISTORICAL	SURVEY	SUBDIVISION
DP1223269	HISTORICAL	SURVEY	SUBDIVISION
DP1231885			
Lot(s): 411, 412, 413, 414, 415, 416, 417, 418, 419, 420			
DP655608	HISTORICAL	COMPILATION	DEPARTMENTAL

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	Status	Surv/Comp	Purpose
DP1232423			
Lot(s): 4303, 4304, 4305, 4306, 4307, 4308, 4309, 4310, 4311, 4312, 4313, 4319, 4320, 4321, 4322, 4323, 4325			
DP632246	HISTORICAL	SURVEY	SUBDIVISION
DP663180	HISTORICAL	COMPILATION	DEPARTMENTAL
DP1112492	HISTORICAL	SURVEY	ROADS ACT, 1993
DP1115179	HISTORICAL	SURVEY	SUBDIVISION
DP1123715	HISTORICAL	SURVEY	SUBDIVISION
DP1128589	HISTORICAL	SURVEY	ROADS ACT, 1993
DP1137540	HISTORICAL	SURVEY	SUBDIVISION
DP1149940	HISTORICAL	SURVEY	SUBDIVISION
DP1167563	HISTORICAL	SURVEY	SUBDIVISION
DP1190984	HISTORICAL	SURVEY	SUBDIVISION
DP1218431	HISTORICAL	SURVEY	SUBDIVISION
DP1222910	HISTORICAL	SURVEY	SUBDIVISION
DP1227190	HISTORICAL	SURVEY	SUBDIVISION
DP1246261			
Lot(s): 1, 2			
DP836697	HISTORICAL	SURVEY	SUBDIVISION
DP1069310	HISTORICAL	SURVEY	RESUMPTION OR ACQUISITION
DP1247515			
Lot(s): 500			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1250044	REGISTERED	SURVEY	SUBDIVISION
DP1270209	REGISTERED	SURVEY	SUBDIVISION
NSW GAZ. 01-02-2013 Folio : 264 ACQUIRED FOR COUNCIL PURPOSES EASEMENT FOR A WATER PIPELINE OVER THE SITE DESIGNATED (A) SHOWN IN DP1171370			
DP1250044			
Lot(s): 184			
DP1269362	REGISTERED	SURVEY	SUBDIVISION
DP1273892	PRE-ALLOCATED	UNAVAILABLE	SUBDIVISION
DP1274065	PRE-ALLOCATED	UNAVAILABLE	SUBDIVISION
DP1285837	PRE-ALLOCATED	UNAVAILABLE	SUBDIVISION
DP1285838	PRE-ALLOCATED	UNAVAILABLE	SUBDIVISION
Lot(s): 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 132, 133, 134, 135, 136, 137, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 150, 151, 152, 153, 154, 156, 161, 162, 163, 164, 166, 167, 168, 170, 171, 172, 173, 174, 175, 176, 177, 178, 181, 182, 183, 184			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1269362			
Lot(s): 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION
Lot(s): 250			
SP105650	PRE-ALLOCATED	UNAVAILABLE	STRATA PLAN
Lot(s): 216			
SP105646	PRE-ALLOCATED	UNAVAILABLE	STRATA PLAN
Lot(s): 252			
SP105643	PRE-ALLOCATED	UNAVAILABLE	STRATA PLAN
Lot(s): 222			
SP105518	PRE-ALLOCATED	UNAVAILABLE	STRATA PLAN
Lot(s): 248			
SP105516	PRE-ALLOCATED	UNAVAILABLE	STRATA PLAN
Lot(s): 245			
SP105515	PRE-ALLOCATED	UNAVAILABLE	STRATA PLAN

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	Status	Surv/Comp	Purpose
Lot(s): 247			
SP105165	PRE-ALLOCATED	UNAVAILABLE	STRATA PLAN
DP1270209			
Lot(s): 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION
DP1274034			
Lot(s): 381, 382			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION
DP1274946			
Lot(s): 301, 302			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION
DP1275530			
Lot(s): 1, 2			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION
DP1282751			
Lot(s): 601, 602			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION
DP1284817			
Lot(s): 165			
DP1006688	HISTORICAL	SURVEY	ROADS ACT, 1993
DP1162160	HISTORICAL	SURVEY	SUBDIVISION
DP1188480	HISTORICAL	SURVEY	SUBDIVISION
DP1194537	HISTORICAL	SURVEY	SUBDIVISION
DP1231260	HISTORICAL	SURVEY	SUBDIVISION
DP1240616	HISTORICAL	SURVEY	SUBDIVISION
DP1290900			
Lot(s): 1, 2			
DP650291	HISTORICAL	COMPILATION	DEPARTMENTAL
DP1225759	HISTORICAL	SURVEY	SUBDIVISION
Road			
Polygon Id(s): 167658182			
NSW GAZ. 25-05-2012 Folio : 2224 DEDICATED PUBLIC ROAD LOT 78 DP1006688			
Polygon Id(s): 167658181, 167658180, 167658179, 167658178			
NSW GAZ. 25-05-2012 Folio : 2224 DEDICATED PUBLIC ROAD LOTS 79-82 DP1006688			
Polygon Id(s): 167658168, 167658151, 167658150, 167658141, 167658086, 167658051			
NSW GAZ. 25-05-2012 Folio : 4222 DEDICATED PUBLIC ROAD LOTS 105-110 DP1007433			
SP103510			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION

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	Status	Surv/Comp	Purpose
SP103650			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION
SP103661			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION
SP103829			
DP632246	HISTORICAL	SURVEY	SUBDIVISION
DP663180	HISTORICAL	COMPILATION	DEPARTMENTAL
DP1112492	HISTORICAL	SURVEY	ROADS ACT, 1993
DP1115179	HISTORICAL	SURVEY	SUBDIVISION
DP1123715	HISTORICAL	SURVEY	SUBDIVISION
DP1128589	HISTORICAL	SURVEY	ROADS ACT, 1993
DP1137540	HISTORICAL	SURVEY	SUBDIVISION
DP1149940	HISTORICAL	SURVEY	SUBDIVISION
DP1167563	HISTORICAL	SURVEY	SUBDIVISION
DP1190984	HISTORICAL	SURVEY	SUBDIVISION
DP1218431	HISTORICAL	SURVEY	SUBDIVISION
DP1222910	HISTORICAL	SURVEY	SUBDIVISION
DP1227190	HISTORICAL	SURVEY	SUBDIVISION
DP1232423	HISTORICAL	SURVEY	SUBDIVISION
SP103994			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION
SP104204			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION
SP104567			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION
SP104838			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION
SP104928			
DP479	HISTORICAL	COMPILATION	UNRESEARCHED
DP1247515	HISTORICAL	SURVEY	SUBDIVISION
DP1250044	HISTORICAL	SURVEY	SUBDIVISION

Road

Polygon Id(s): 106735295

NSW GAZ. 25-05-2012 Folio : 2224
DEDICATED PUBLIC ROAD
LOTS 1-11 DP223942

Polygon Id(s): 108020118, 108020124

NSW GAZ. 06-08-2004 Folio : 6427
ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993
LOTS 76-77 DP1006688

PA81678 - LOT 31 DP1039776, LOTS 76-77 DP1006688 AND LOTS 58-60 DP1008018

Polygon Id(s): 108020121, 167658177, 167658173

NSW GAZ. 25-05-2012 Folio : 2224
DEDICATED PUBLIC ROAD
LOTS 83-85 DP1006688

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Plan	Surv/Comp	Purpose
DP29252	SURVEY	UNRESEARCHED
DP124099	COMPILATION	DEPARTMENTAL
DP126275	COMPILATION	DEPARTMENTAL
DP191872	SURVEY	UNRESEARCHED
DP221213	SURVEY	SUBDIVISION
DP538192	COMPILATION	DEPARTMENTAL
DP591422	COMPILATION	SUBDIVISION
DP749333	COMPILATION	SUBDIVISION
DP776381	SURVEY	SUBDIVISION
DP786705	COMPILATION	SUBDIVISION
DP807233	SURVEY	RESUMPTION OR ACQUISITION
DP836697	SURVEY	SUBDIVISION
DP912247	COMPILATION	UNRESEARCHED
DP916825	COMPILATION	UNRESEARCHED
DP1006688	SURVEY	ROADS ACT, 1993
DP1007433	SURVEY	ROADS ACT, 1993
DP1020257	SURVEY	SUBDIVISION
DP1054414	SURVEY	SUBDIVISION
DP1069310	SURVEY	RESUMPTION OR ACQUISITION
DP1156773	SURVEY	SUBDIVISION
DP1194536	SURVEY	SUBDIVISION
DP1194536	UNRESEARCHED	SUBDIVISION
DP1222910	SURVEY	SUBDIVISION
DP1222910	UNRESEARCHED	SUBDIVISION
DP1223269	SURVEY	SUBDIVISION
DP1223269	UNRESEARCHED	SUBDIVISION
DP1231260	SURVEY	SUBDIVISION
DP1231885	SURVEY	SUBDIVISION
DP1231885	UNRESEARCHED	SUBDIVISION
DP1232423	SURVEY	SUBDIVISION
DP1232423	UNRESEARCHED	SUBDIVISION
DP1246261	COMPILATION	SUBDIVISION
DP1247515	SURVEY	SUBDIVISION
DP1247515	UNRESEARCHED	SUBDIVISION
DP1250044	SURVEY	SUBDIVISION
DP1250044	UNRESEARCHED	SUBDIVISION
DP1269362	SURVEY	SUBDIVISION
DP1269362	UNRESEARCHED	SUBDIVISION
DP1270209	SURVEY	SUBDIVISION
DP1270209	UNRESEARCHED	SUBDIVISION
DP1274034	SURVEY	SUBDIVISION
DP1274946	SURVEY	SUBDIVISION
DP1275530	SURVEY	SUBDIVISION
DP1282751	SURVEY	SUBDIVISION
DP1284817	SURVEY	SUBDIVISION
DP1284817	UNRESEARCHED	SUBDIVISION
DP1290900	SURVEY	SUBDIVISION
SP103510	COMPILATION	STRATA PLAN
SP103510	UNRESEARCHED	STRATA PLAN
SP103650	COMPILATION	STRATA PLAN
SP103661	COMPILATION	STRATA PLAN
SP103829	COMPILATION	STRATA PLAN
SP103829	UNRESEARCHED	STRATA PLAN
SP103994	COMPILATION	STRATA PLAN
SP104204	COMPILATION	STRATA PLAN
SP104567	COMPILATION	STRATA PLAN
SP104838	COMPILATION	STRATA PLAN
SP104928	COMPILATION	STRATA PLAN

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NEW SOUTH WALES

[redacted]FICATE OF TITLE

AL PROPERTY ACT, 1900.

11532250

Vol. 11532 Fol. 250

Appln. No.1925

Prior Title Vol.7757 Fols.177 and 178

Edition issued 24-2-1971

M53645

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

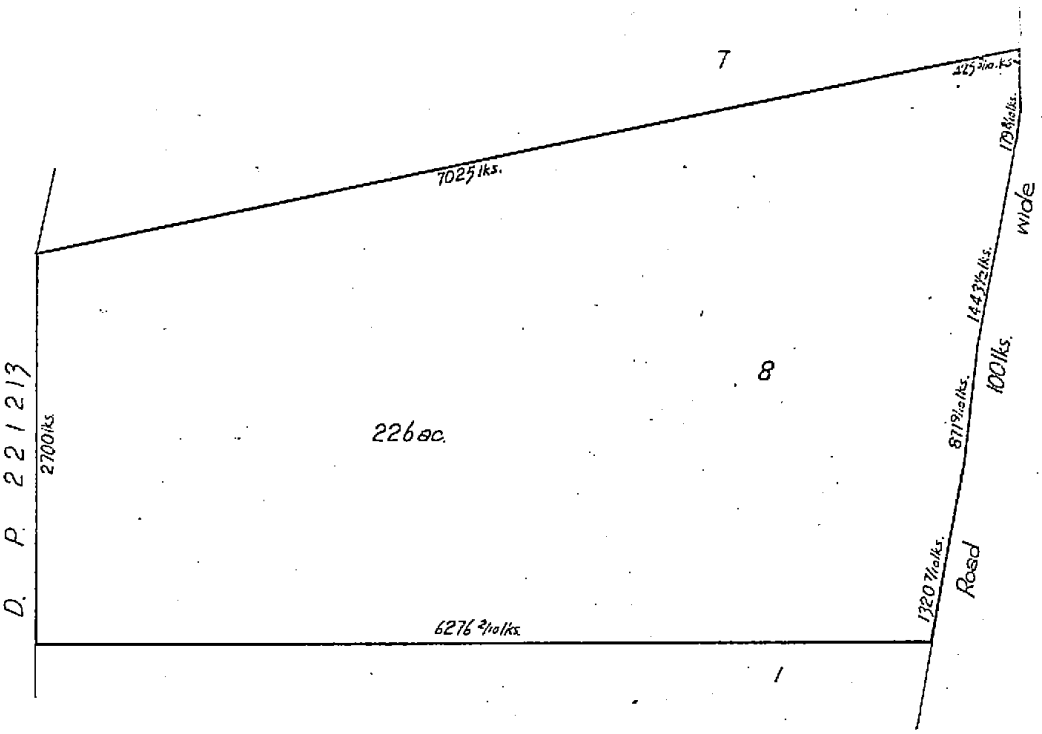
Registrar General.

11532 Fol. 250

(Page [illegible] Vol.

PLAN SHOWING LOCATION OF LAND

SEE AUTO FOLIO



Scale: 10chains to one inch.

M53645 R.N.

S

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 8 in Deposited Plan 29252 in the Shire of Mulwaree Parish of Narrangaril and County of Argyle being part of Portion 1 granted to Hannibal Hawkins Macarthur on 6-7-1835.

FIRST SCHEDULE

~~DAVID JOHN TOZER, Grazier as to an undivided one-half share, JEAN FRANCES TOZER, his wife~~ as to an undivided one-fourth share and ~~DOUGLAS THOMAS TOZER, Grazier, as to the remaining undivided one-fourth share, all of Jerangle, as Tenants in Common.~~

SECOND SCHEDULE

GRY 1. Reservations and conditions, if any, contained in the Crown Grant above referred to.

Registrar General

WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

17 V.C.N. Blight, Government Printer

Vol. 11532 Fol 250

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
Onslow Pastoral Pty. Limited.	Transfer	Q678797	—	16-1978	

CANCELLED

SEE AUTO FOLIO

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION		
Mortgage	M153149	2.11.1970	To William Thomas Phillips, Gladys Phillips and John Phillips	24.2.1971		Recharged	Q456009	
Mortgage	M169055	2.11.1970	To Bank of New South Wales	24.5.1971		Discharged	Q851512	
Mortgage	Q851513 P		to Bank of New South Wales	11-9-1978				

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

(Page 2 of 2 pages)

M

P58 2514 pin K (M55 T2119)
Q456009 d/f
~~DP583449~~
CT 13/4/78
Q678797L
Q851512 D/S — 13 m.

Req:R006799 /Doc:CT 11532-250 CT /Rev:27-Jan-2011 /NSW LRS /Pgs:ALL /Prt:24-Jan-2023 09:16 /Seq:2 of 2
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Req:R006815 /Doc:DL 9096411 /Rev:08-Nov-2002 /NSW LRS /Pgs:ALL /Prt:24-Jan-2023 09:18 /Seq:1 of 1
© Office of the Registrar-General /Src:GlobalX /Ref:advlegs

Form: 01T
Licence: 01-08-067
Licensee: Midware Systems
Matthews Folbigg Pty Limited

TRANSFER
New South Wales
Real Property Act 1900

9096411K

PRIVACY NOTE: this information is legally required and will bec

STAMP DUTY Office of State Revenue use only

NEW SOUTH WALES DUTY
01-08-2002 0001064072-001
SECTION 18(2)
DUTY $ **********2.00

(A) TORRENS TITLE If appropriate, specify the part transferred
Folio Identifier 103/1007433 and 104/1007433

(B) LODGED BY

Delivery Box	Name, Address or DX and Telephone	CODE
307V	MATTHEWS FOLBIGG PTY LIMITED DX 8233 PARRAMATTA Tel: 96357966 Reference (optional): AVZ.PBM 13655	T TW (Sheriff)

(C) TRANSFEROR ONSLOW PASTORAL PTY LIMITED ARBN 60054 176 258

(D) CONSIDERATION The transferor acknowledges receipt of the consideration of $ 1,000,000.00 and as regards

(E) ESTATE the land specified above transfers to the transferee an estate in fee simple.

(F) SHARE TRANSFERRED

(G) Encumbrances (if applicable):

(H) TRANSFEREE **ALIMACO PTY LTD** ACN 002 859 190

(I) TENANCY:

(J) DATE 01/11/2002

Please complete

Certified correct for the purposes of the Real Property Act 1900 by the corporation named below the common seal of which was affixed pursuant to the authority specified and in the presence of the authorised person(s) whose signature(s) appear(s) below.
Corporation: ONSLOW PASTORAL PTY LIMITED ARBN 60054 176 258
Authority: Section 127 of the Corporations Act 2001

ONSLOW PASTORAL PTY. LIMITED A.C.N. 007 513 202 Common Seal

Signature of authorised person: D.T.Tozer
Name of authorised person: D.T. TOZER
Office held: DIRECTOR

Signature of authorised person: B M Tozer
Name of authorised person: BARBARA MAY TOZER
Office held: SECRETARY/DIRECTOR.

Certified correct for the purposes of the Real Property Act 1900 by the person whose signature appears below.

Signature:
Signatory's name: PAUL MATTHEWS
Signatory's capacity: Solicitor for the transferee

All handwriting must be in block capitals.

Number additional pages sequentially

PLAN FORM 2

Plan Drawing only to appear in this space

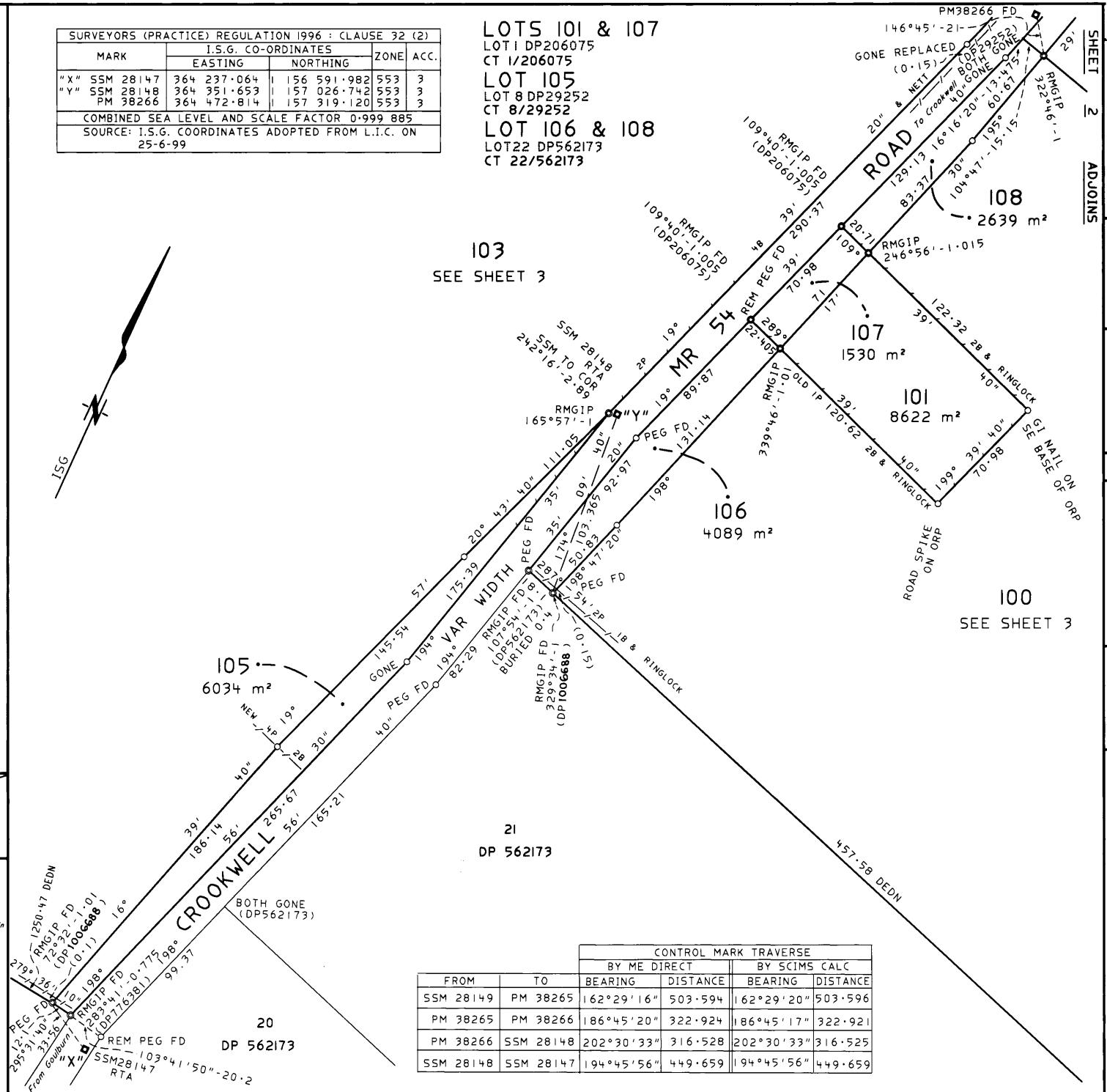
SIGNATURES AND SEALS ONLY

SURVEYORS (PRACTICE) REGULATION 1996 : CLAUSE 32 (2)				
MARK	I.S.G. CO-ORDINATES EASTING	I.S.G. CO-ORDINATES NORTHING	ZONE	ACC.
"X" SSM 28147	364 237·064	156 591·982	553	3
"Y" SSM 28148	364 351·653	157 026·742	553	3
PM 38266	364 472·814	157 319·120	553	3
COMBINED SEA LEVEL AND SCALE FACTOR 0·999 885				
SOURCE: I.S.G. COORDINATES ADOPTED FROM L.I.C. ON 25-6-99				

LOTS 101 & 107
LOT 1 DP206075
CT 1/206075

LOT 105
LOT 8 DP29252
CT 8/29252

LOT 106 & 108
LOT 22 DP562173
CT 22/562173



CONTROL MARK TRAVERSE					
		BY ME DIRECT		BY SCIMS CALC	
FROM	TO	BEARING	DISTANCE	BEARING	DISTANCE
SSM 28149	PM 38265	162°29'16"	503·594	162°29'20"	503·596
PM 38265	PM 38266	186°45'20"	322·924	186°45'17"	322·921
PM 38266	SSM 28148	202°30'33"	316·528	202°30'33"	316·525
SSM 28148	SSM 28147	194°45'56"	449·659	194°45'56"	449·659

Crown Lands Office Approval

PLAN APPROVED: ..... Authorised Officer

Land District: .....

Paper No.: .....

Field Book No.: ..... pages .....

Subdivision Certificate

I certify that the provisions of s.109J of the Environmental Planning and Assessment Act 1979 have been satisfied in relation to the proposed

..... set out herein
(Insert 'subdivision' or 'new road')

..... ** Authorised Person/General Manager/Accredited Certifier..*

Consent Authority: .....

Date of endorsement: .....

Accreditation No.: .....

Subdivision Certificate No.: .....

File No.: .....

When the plan is to be lodged electronically in the Land Titles Office, it should include a signature in an electronic or digital format approved by the Registrar-General.

** Delete whichever is inapplicable*

DP1007433

Registered: 16.11.1999

C.A.: .....

Title System: TORRENS

Purpose: ROADS ACT, 1993

Ref. Map: ~~0828-15~~ PARISH

Last Plan: DP 29252* DP 206075* DP 562173 DP 593449

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993.

Lengths are in metres. Reduction Ratio 1:1500

L.G.A.: MULWAREE SHIRE

Locality: KINGSDALE

Parish: NARRANGARRIL

County: ARGYLE (30)

This is sheet 1 of my plan in 3 sheets. (Delete if inapplicable).

I, ANTHONY JOHN BAMFORTH
of ROADS & TRAFFIC AUTHORITY, N.S.W.
a surveyor registered under the Surveyors Act 1929, hereby certify that the survey represented in this plan is accurate, has been made in accordance with the Surveyors (Practice) Regulation 1996 and was completed on: 3-9-1999
The survey relates to .....
(here specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey)
Datum Line: "X" - "Y" (SHEET 1)
Zone: COUNTRY
Signature: Anthony Bamforth 23/9/99
Surveyor registered under the Surveyors Act 1929.

Plans used in preparation of survey / ~~compilation~~
DP 29252 DP 499002 DP 776381
DP 41839 DP 562173
DP 206075 DP 593449
DP 223942 DP 617136
RTA CONTROL PLAN: 0054 297 CS 8018
RTA F BK/FOIL NOS: 0054 297 FP7002/7003
NOT WITHIN PSA RH

PANEL FOR USE ONLY for statements of intention to dedicate public roads or to create public reserves, drainage reserves, easements, restrictions on the use of land or positive covenants.

LOTS 105 TO 110 INCLUSIVE ARE REQUIRED FOR PUBLIC ROAD UNDER SECTION 10 OF THE ROADS ACT 1993

APPROVED:
Anthony Bamforth
SURVEY MANAGER
GOULBURN TECHNICAL SERVICES
ROADS AND TRAFFIC AUTHORITY

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 Table of mm 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390

SURVEYOR'S REFERENCE: SI678 & CHECKLIST

WARNING : CREASING OR FOLDING WILL LEAD TO REJECTION

H.O.FILE: 99M4429

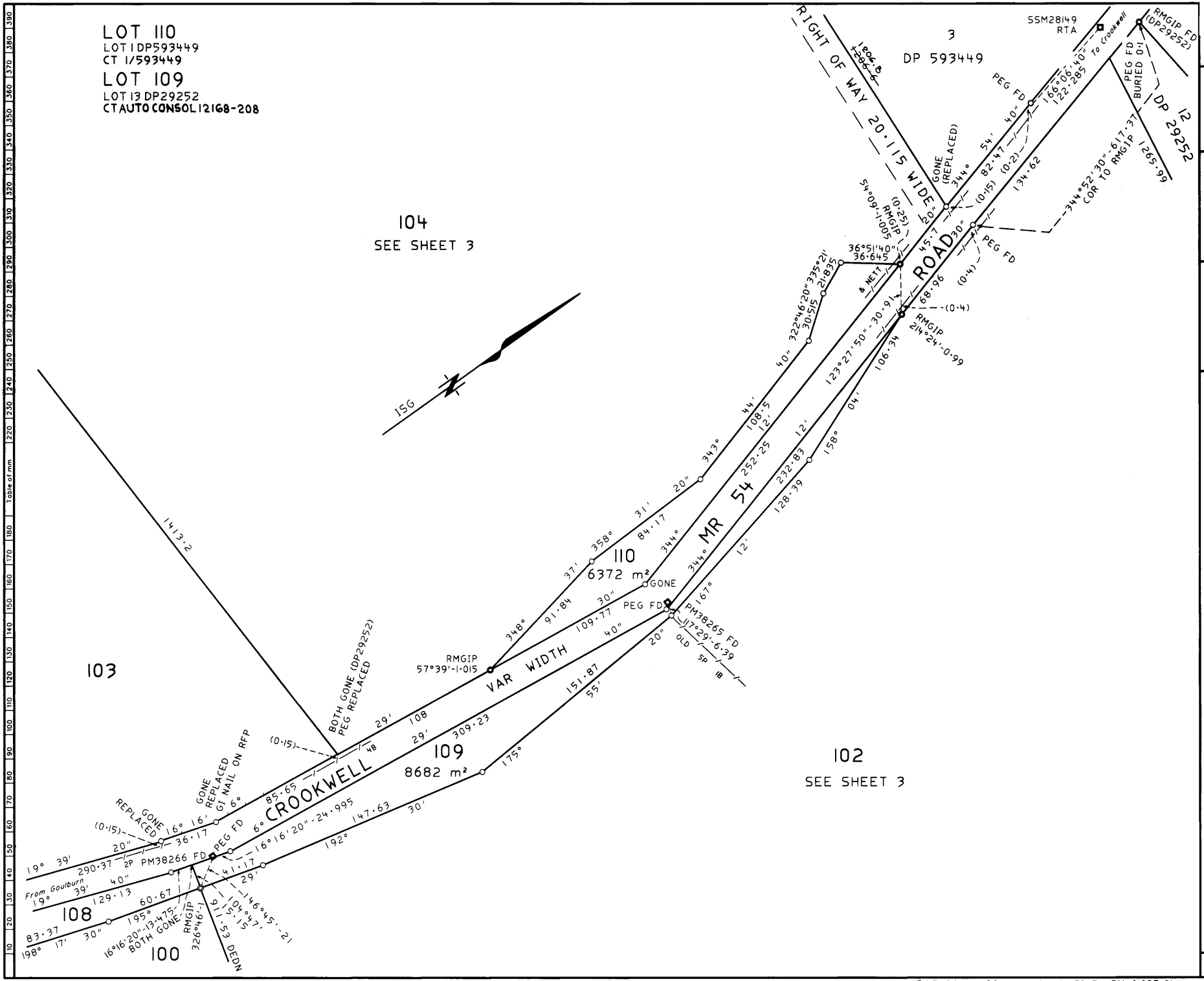
R.T.A. FILE : PM 61685·04 R.T.A. PLAN: 0054 297 SS 0166

Req:R006798 /Doc:DP 1007433 P /Rev:17-Nov-1999 /NSW LRS /Pgs:ALL /Prt:24-Jan-2023 09:16 /Seq:1 of 3
© Office of the Registrar-General /Src:GlobalX /Ref:advlegs

PLAN FORM 3

To be used in conjunction with Plan Form 2

WARNING : CREASING OR FOLDING WILL LEAD TO REJECTION



DP1007433

Registered: 16.11.1999

This is sheet 2 of my plan in 3 sheets dated 3-9-1999

Signature Anthony Beamsley 23/9/99
Surveyor registered under Surveyors Act, 1929.

This is sheet of the plan of sheets covered by Subdivision Certificate No.: ..... of .....

* Authorised Person/General Manager/Accredited Certifier..
* Delete whichever is inapplicable

L.G.A.: MULWAREE SHIRE
Locality: KINGSDALE
Parish: NARRANGARRIL
County: ARGYLE

For use where space is insufficient in any panel on Plan Form 2

Lengths are in metres. Reduction Ratio 1:1500

Plan Drawing only to appear in this space

H.O.FILE: 99M4429 R.T.A. FILE : PM 61685·04 R.T.A. PLAN : 0054 297 SS0166

Req:R006798 /Doc:DP 1007433 P /Rev:17-Nov-1999 /NSW LRS /Pgs:ALL /Prt:24-Jan-2023 09:16 /Seq:2 of 3
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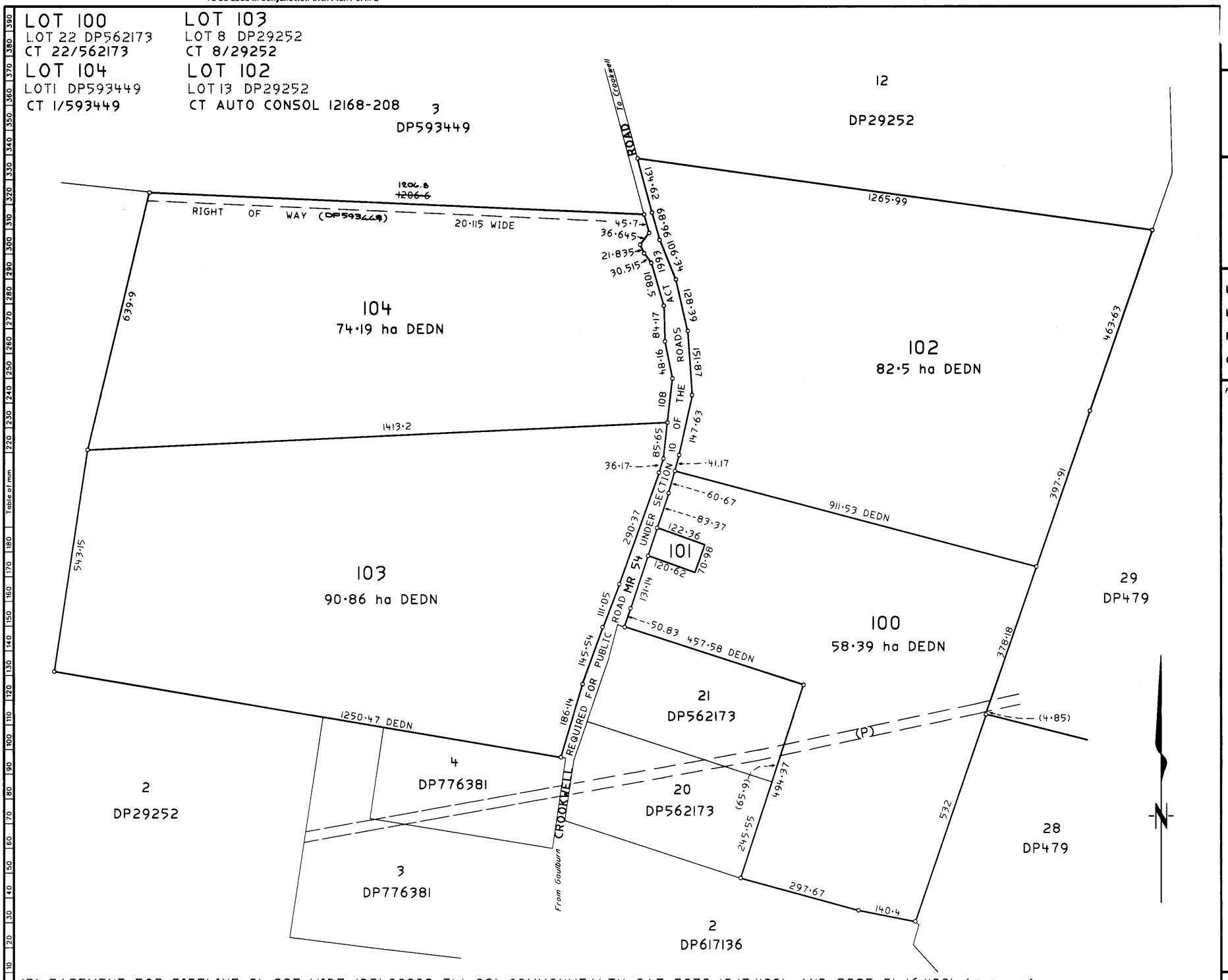
PLAN FORM 3 To be used in conjunction with Plan Form 2

WARNING : CREASING OR FOLDING WILL LEAD TO REJECTION



(P) EASEMENT FOR PIPELINE 24·385 WIDE (DP499002 Sht 92) COMMONWEALTH GAZ S272 12/7/1994 AND S225 24/6/1994 (Q147076)

DP1007433

Registered: 16.11.1999

This is sheet 3 of my plan in 3 sheets
dated 3-9-1999

Signature Anthony Bamford 23/9/99
Surveyor registered under Surveyors Act, 1929

This is sheet of the plan of sheets
covered by Subdivision Certificate No.:
of

* Authorised Person/General Manager/Accredited Certifier..
* Delete whichever is inapplicable

L.G.A.: MULWAREE SHIRE
Locality: KINGSDALE
Parish: NARRANGARRIL
County: ARGYLE

For use where space is insufficient in any panel on Plan Form 2.

Lengths are in metres. Reduction Ratio 1:6000

Plan Drawing only to appear in this space

H.O.FILE: 99M4429 R.T.A. FILE : PM 61685·04 R.T.A. PLAN : 0054 297 S50166

Req:R006798 /Doc:DP 1007433 P /Rev:17-Nov-1999 /NSW LRS /Pgs:ALL /Prt:24-Jan-2023 09:16 /Seq:3 of 3
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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
24/1/2023 9:16AM

FOLIO: 103/1007433

First Title(s): OLD SYSTEM
Prior Title(s): 8/29252

Recorded	Number	Type of Instrument	C.T. Issue
16/11/1999	DP1007433	DEPOSITED PLAN	LOT RECORDED FOLIO NOT CREATED
24/7/2000	6967784	DEPARTMENTAL DEALING	FOLIO CREATED EDITION 1
4/11/2002	9096411	TRANSFER	EDITION 2
30/4/2004	AA603417	LEASE	EDITION 3
3/6/2004	AA687733	DEPARTMENTAL DEALING	
20/5/2009	AE690362	LEASE	EDITION 4
8/1/2014	AI276342	LEASE	EDITION 5
16/9/2019	AP533340	LEASE	EDITION 6
9/10/2019	AP594950	DEPARTMENTAL DEALING	EDITION 7

*** END OF SEARCH ***

advlegs PRINTED ON 24/1/2023

Obtained from NSW LRS on 24 January 2023 08:16 AM AEST

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 103/1007433

SEARCH DATE	TIME	EDITION NO	DATE
24/1/2023	9:16 AM	7	9/10/2019

LAND

LOT 103 IN DEPOSITED PLAN 1007433
AT DP1007433
LOCAL GOVERNMENT AREA GOULBURN MULWAREE
PARISH OF NARRANGARRIL COUNTY OF ARGYLE
TITLE DIAGRAM DP1007433

FIRST SCHEDULE

ALIMACO PTY LTD (T 9096411)

SECOND SCHEDULE (2 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 AP533340 LEASE TO MARTIN GERARD CROKER, MARGARET MAUREEN CROKER & BENJAMIN SCOTT CROKER OF "ONSLOW", 515 CROOKWELL RD, GOULBURN EXCLUDING THE PRINCIPAL DWELLING HOUSE. EXPIRES: 31/3/2024. OPTION OF RENEWAL: 2 YEARS.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

advlegs PRINTED ON 24/1/2023

Obtained from NSW LRS on 24 January 2023 08:16 AM AEST © Office of the Registrar-General 2023
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Appendix XI

Groundwater bore on site

WaterNSW
Work Summary

GW050231

Licence:
Licence Status:
Authorised Purpose(s):
Intended Purpose(s): STOCK
Work Type: Bore open thru rock
Work Status:
Construct.Method: Rotary Air
Owner Type: Private
Commenced Date:
Completion Date: 01/02/1980
Final Depth: 38.10 m
Drilled Depth: 38.10 m
Contractor Name: (None)
Driller:
Assistant Driller:
Property:
GWMA:
GW Zone:
Standing Water Level (m):
Salinity Description: Good
Yield (L/s):

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	ARGYLE	NARRANGARRIL	1
Licensed:			

Region: 10 - Sydney South Coast
CMA Map: 8828-4S
River Basin: 212 - HAWKESBURY RIVER
Area/District:
Grid Zone:
Scale:
Elevation: 0.00 m (A.H.D.)
Elevation Source: (Unknown)
Northing: 6155594.000
Easting: 747509.000
Latitude: 34°42'42.4"S
Longitude: 149°42'09.3"E
GS Map: -
MGA Zone: 55
Coordinate Source: GD.,ACC.MAP

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1	1	Casing	Welded Steel	-0.30	5.80	165			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
12.20	12.80	0.60	Fractured	9.10		0.25			
22.90	38.10	15.20	Fractured	9.10		1.01			

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Topsoil	Topsoil	
0.30	2.10	1.80	Clay	Clay	
2.10	5.80	3.70	Granite Decomposed	Granite	
5.80	38.10	32.30	Granite Water Supply	Granite	

***** End of GW050231 *****

Warning To Clients: This raw data has been supplied to the NSW Office of Water by drillers, licensees and other sources. The NOW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.