

VALIDATION REPORT (NCPT PORTION OF SITE)

Liberty Service Station
24-26 Glenn Innes Road, Inverell NSW

For:

North Coast Petroleum and Transport

By:

ENV Solutions

Job Number:

216773

Date:

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Scope of Engagement and Limitations:

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List of Acronyms:

Below is a list of commonly used acronyms in this report:

AST – Above-ground Storage Tank

COC – Chain of Custody

COPC – Chemical of Potential Concern

EILs – Ecological Investigation Levels

ENV – ENV Solutions PTY LTD

ESLs – Ecological Screening Levels

HILs – Health Investigation Levels (for soil)

HSLS – Health Screening Levels (for soil)

LEL – Lower Explosive Limit

NEPC – National Environment Protection Council

NEPM – National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)

NSW EPA – New South Wales Environment Protection Authority

PID – Photo Ionisation Detector

ppm_v – Parts Per Million (by volume)

QA/QC – Quality Assurance and Quality Control

UPSS - Underground petroleum storage systems

UST – Underground Storage Tank

BaP - benzo[a]pyrene

1 Table of Contents

1	Table of Contents	4
1.	Introduction	7
1.1	Background and Scope of Work	7
2	Regulatory Requirements.....	9
2.1	Protection of Environment Operations (Underground Petroleum Storage Systems) Regulation 2019 ('UPSS Regulation')	9
2.2	State Environmental Planning Policy (Resilience and Hazards) 2021	9
3	Site Identification Details	10
4	Site History	12
4.1	Anecdotal Information.....	12
4.2	Historical Aerial Photographs	12
4.3	POEO Public Register Search	12
4.4	Contaminated Land – Record of Notices Search.....	12
4.5	Contaminated Land Record.....	12
4.6	Known Spills and/or Product Losses	13
4.7	Previous Investigations	13
4.7.1	ENV (2018) – Due Diligence Assessment	13
4.7.2	ENV (2021) – Detailed Site Investigation (DSI).....	15
4.8	Demolition and Remediation Program	16
5	Data Quality Objectives (DQOs)	17
5.1	Step 1: State the Problem	17
5.2	Step 2: Identify the Decision(s)	17
5.3	Step 3: Inputs into the Decision(s)	17
5.4	Step 4: Define the Study Boundaries.....	18
5.5	Step 5: Develop the Sampling and Analytical Approach (or decision rule)	18
5.6	Step 6: Specify the Performance or Acceptance Criteria	19
5.6.1	Assumptions and Limitations of Criteria	20
5.7	Step 7: Optimise the Design for Obtaining Data	20
6	Methodology.....	21
6.1	Contractor Information.....	21
6.2	Preliminaries.....	21
6.3	Decommissioning/Removal	21
6.3.1	Kerosene UST	21
6.3.2	Mechanical Workshop and Sales Building	22
6.3.3	Liquid Waste	22
6.3.4	Vent Pipework.....	22
6.3.5	Excavated Spoil	22
6.4	Validation Sampling Procedure.....	22
6.5	Field Quality Assurance/Quality Control (QA/QC) Procedures.....	24
7	Results.....	25
7.1	Field Results.....	25
7.2	Laboratory Results	25
7.2.1	In-situ Soils.....	25
7.2.2	Waste Soils.....	25
7.3	Discussion	25
7.3.1	Soil Quality and Residual Impacts	25
7.4	Quality Assurance (QA) and Data Usability Assessment	26
7.4.1	Field Duplicates	26

7.4.2	Laboratory QA Results	26
7.4.3	Summary of Data Usability	27
8	Conceptual Site Model	28
8.1	Contamination Sources	28
8.2	Chemicals of Potential Concern	28
8.3	Potentially Affected Media	28
8.4	Review of Exposure Pathways and Receptors of Contamination	29
9	Conclusions	34
9.1	Conclusions	34
9.2	Recommendations	34
10	References	35
11	Attachments.....	36

List of Tables

Table 1: Site Details	10
Table 2: Summary of QA Sample Parameters for Assessing Data Reliability	19
Table 3: UST Contractor and Environmental Consultant Details	21
Table 4: Summary of Sampling Details.....	23
Table 5: Summary of COPC	28
Table 6: Summary of potential exposure pathways and receptors of contamination.....	30

Executive Summary

Overview and Results:

ENV Solutions Pty Ltd (ENV) was commissioned by North Coast Petroleum and Transport (NCPT) to environmentally validate the removal of an underground storage tank (UST) and above ground infrastructure including a sales building, mechanical workshop, hoists (2) and grease pit at the former Liberty Branded service station located at 24-26 Glenn Innes Road, Inverell NSW.

The UST (2.2 kL capacity) was used to store kerosene, assumed to be sold for use in heaters.

The infrastructure was decommissioned by EMP and AADEMEX via the removal of all super structures and sub-surface infrastructure. Soils supporting field indications of contamination were excavated and stockpiled pending waste classification and disposal.

Soil samples were collected from the excavation extents resulting from removal of the sub-surface infrastructure.

The results from the validation process are summarised as follows:

- The UST base featured a hole of approximately 2 cm in diameter.
- Hydrocarbon impacts were evident in soils directly adjacent the UST. These soils were excavated and stockpiled pending waste classification and landfill disposal.
- Potentially contaminated fill sand and in-situ soil was excavated to the extent practicable from around underground infrastructure and stockpiled on site.
- Imported virgin excavated natural material (VENM) material (quarry product) was used to backfill the excavation.
- For in situ validation samples, no exceedance of any relevant criteria was recorded.
- Based on the results of this investigation, there are not considered to be any potential risks associated with residual hydrocarbon contamination at the site in soils or groundwater.

Based on the findings of this validation report, the site is considered to have been successfully remediated and is deemed suitable for the proposed redevelopment as a new service station facility.

Recommendations:

- All stockpiled waste must be disposed of to a suitably licensed facility.
- In accordance with the requirements of the Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2019 ('UPSS Regulation'), a copy of this report should be provided to Council within 60 days of the completion of the remediation work.

1. Introduction

1.1 Background and Scope of Work

ENV Solutions Pty Ltd (ENV) was commissioned by Inverell Shire Council and North Coast Petroleum (the client) to environmentally validate site remediation works including the removal of Underground Petroleum Storage System (UPSS) infrastructure and site structures (mechanical workshop and sales building) at the former Liberty Branded service station located at 24-26 Glenn Innes Road, Inverell NSW (the site).

The UPSS historically stored Unleaded Petrol (ULP), Premium ULP and diesel for sale to motorists.

The remediation works program was completed for the total site. However, the site has recently been divided into two portions, those being the north-eastern portion owned by NCPT and the south-western portion, now owned by Inverell Shire Council. This validation report relates to the NCPT portion of the site. A separate validation report has been prepared for the Inverell Shire Council section of the site and all remediation works that have occurred in that portion of the site.

The remedial work program for the NCPT portion of the site comprised the following:

- Attending site during the decommissioning (i.e. excavation and removal) of the UPSS, which comprised:
 - 1 x UST storing kerosene – 2.2 kL (previously abandoned in situ).
 - vent pipes, situated around the site.
- Excavation and stockpiling of surplus backfill soil.
- Collection of soil samples from stockpiled surplus soils.
- Removal of building structures (sales building, mechanical workshop, mechanical hoists and grease pit).
- Collection of soil samples from the base and walls of the excavation, around the removed infrastructure (footprint of a grease pit, mechanical hoists (2) and site structures).

The objective of the works was to:

- assess the suitability of the soils remaining in situ, following removal of all infrastructure and surplus soil, relative to the likely ongoing land use at the site (new service station); and
- assess the suitability of stockpiled soil for offsite disposal.

The works were conducted in general accordance with the following guidance documents and Standards:

- State Environmental Planning Policy (Resilience and Hazards) 2021.
- DECCW (2010). Technical Note: Decommissioning, Abandonment and Removal of UPSS.
- NSW EPA (2014). Technical Note: Investigation of Service Station Sites.
- AS 4976- 2008: The removal and disposal of underground petroleum storage tanks.
- AS4482.1–2005: Guide to the investigation and sampling of sites with potentially contaminated soil – Non-volatile and semi-volatile compounds.
- AS4482.2–1999: Guide to the investigation and sampling of sites with potentially contaminated soil – volatile substances.

- National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) ('NEPM') (NEPC 2013).

2 Regulatory Requirements

2.1 Protection of Environment Operations (Underground Petroleum Storage Systems) Regulation 2019 ('UPSS Regulation')

In accordance with Part 5 of the UPSS Regulation, the following must be undertaken as part of the UST decommissioning work:

- Council (Inverell Shire) must be notified that the UST storage system will be decommissioned no later than 30 days prior to the decommissioning or removal of the system;
- The person responsible for the storage system, immediately before the system is decommissioned, must ensure that a report for the storage site is served to the relevant authority (i.e. Council) no later than 60 days after the remediation is completed.
- The report described above must be prepared by a duly qualified person in accordance with the EPA guidelines and describe the processes used to decommission the storage system and assess contamination at the storage site. This report has been prepared and reviewed by duly qualified and experienced environmental professionals from ENV.

2.2 State Environmental Planning Policy (Resilience and Hazards) 2021

In accordance with Section 4.15 of the State Environmental Planning Policy (Resilience and Hazards (2021), a notice of completion of remediation works on any land must be given to Council within 30 days of the completion of the work.

3 Site Identification Details

Selected site details relevant to the project are provided in Table 1.

Table 1: Site Details

Site Address	24-26 Glenn Innes Road, Inverell NSW
Site Area	1540 m ²
Investigation Area	1050 m ² (NCPT portion of site)
Real Property Description	Lot 1 DP322074 and Lot 1 DP666824
Local Government Area	Inverell Shire Council (ISC)
Zoning	B2 – Local Centre
Site Features and Observations	<ul style="list-style-type: none"> ▪ The subject site was vacant at the time of the field investigations, having been cleared of all previous infrastructure. ▪ The land surrounding the site supports low density residential dwellings and commercial premises. ▪ The UST was exposed, having been identified during shallow excavation.
Surrounding Environment	<ul style="list-style-type: none"> ▪ East: Disused commercial premises followed by a motel. ▪ West: Commercial buildings followed by the Inverell Caravan Park across Glenn Innes Road. ▪ North: Low density residential housing. ▪ South: Inverell East Bowling Club Ltd. Further south (approximately 150 m) is the McIntyre River.
Existing Land Use	<ul style="list-style-type: none"> ▪ Vacant (previously Liberty branded service station)
Proposed Land Use	<ul style="list-style-type: none"> ▪ New service station
Topography	<ul style="list-style-type: none"> ▪ The site elevation is 594 m Australian Height Datum (AHD). The site has a steady gradient towards the south (Glen Innes Road). Stormwater run-off from the site most likely flows south, following the topography of the site. Concrete kerbing was located along the southern side of the forecourt, with openings for the entry and exit driveways. ▪ The topography surrounding the site is relatively flat, but slopes to the south on the southern side of Glen Innes Road, towards the Macintyre River.
Soils	<ul style="list-style-type: none"> ▪ Reference to <i>in-situ</i> soils encountered as part of the excavation process describes the geological makeup to be predominantly fill sands and gravel (within the excavation), with weathered clay and gravel surrounding the fill.

Groundwater Resources	<ul style="list-style-type: none"> ▪ A search of the WaterNSW (formerly NSW Office of Water) Groundwater Bores online mapping (ENV, 2021) indicated there were 13 licensed bores within a 500 m radius of the site, including three existing on-site wells. A figure presenting the relative bore locations is presented in Attachment 1. ▪ The licensed bores (other than the on-site wells) have been installed for a range of purposes; including domestic, industrial and recreational. The bores have been constructed to screen regional groundwater, and do not screen perched water which has been the subject of previous contamination investigations at the site.
Surface Water	<ul style="list-style-type: none"> ▪ The Macintyre River (freshwater) is located approximately 150 m to the south of the site at its closest point; and flows east towards Lake Inverell.
Flooding	<ul style="list-style-type: none"> ▪ The site is not identified as occurring within a Flood Planning Area (Inverell Local Environmental Plan (LEP), 2012).
Acid Sulfate Soils	<ul style="list-style-type: none"> ▪ The site does not lie in an area of known acid sulfate soil risk (Inverell Shire Council 2012).

4 Site History

4.1 Anecdotal Information

As part of a Detailed Site Investigation (ENV, 2021), ENV conducted an interview with the site operator, Mr. Garry Campbell, at the time of the field-based activities (March 2021). Garry provided the following relevant information:

- Garry has been operating the site since approximately 2010.
- The former mechanical workshop ceased operation on the site in approximately 2016.
- The three existing monitoring wells generally contain groundwater for brief periods only after significant rainfall but are dry during periods without rainfall.

4.2 Historical Aerial Photographs

Available historical aerial photographs were searched using the NSW governments spatial services tool. The earliest available image dated 1962 showed the site to already be in its pre-demolition layout (i.e. there was no notable difference between 1962 and 2021 Imagery).

4.3 POEO Public Register Search

The NSW EPA *Protection of the Environment Operations Act 1997* ('POEO Act') Public Register contains information about environment protection licences, licence applications, notices issued under the POEO Act and pollution studies and reduction programs.

The EPA's POEO Act Public Register was searched for the Inverell area on 1 April 2022 (ENV, 2021). Several licences were located, including those for the Inverell waste facility (landfill), as well as others listed for the Inverell sewage treatment plant, Copeton water treatment plant, manufacturing businesses and mining exploration. None of these activities occurred in close proximity to the subject site and were therefore considered unlikely to affect the environmental condition of the site.

The Register for delicensed premises which are still regulated by the NSW EPA was also reviewed at the time (ENV, 2021) and indicated that there had previously been a licence for Australian Gemstone Resources Pty Ltd located at the property known as "Kew" on Waterloo Road, Inverell. The licence for the company was revoked on 18 May 2018 due to failure to pay the annual licence fee. It was also noted through the EPA's POEO Act Public Register website that the company had not operated since 2010. An entry for a delicensed premises relating to the former production or storage of hazardous, industrial or Group A waste at the Inverell District Hospital was also found. The Hospital is located approximately 1.2 km north-east of the site.

4.4 Contaminated Land – Record of Notices Search

The EPA triggers assessment and remediation of significantly contaminated land by sending written notices to those responsible for cleaning up the contamination. The EPA makes these notices, which include preliminary investigation orders, available to the public through the Record of Notices.

The Record of Notices was searched on 1 April 2022. No records were found for sites in Inverell.

4.5 Contaminated Land Record

A site may be notified to the NSW EPA if the notifier considers the site to be contaminated (as defined by the CLM Act). The EPA then assesses the contamination status of the site and makes a decision as to whether the contamination is significant enough to warrant formal regulation by the EPA in accordance with the provisions of the CLM Act.

A review of information presented on the Contaminated Land Record was completed for the Inverell area on 15 April 2021. Seven (7) sites were identified in the Inverell area and were all related to petroleum and service station contamination activity - however, none of the 7 sites were “under assessment” by the EPA. This means that contamination identified at the sites was deemed by EPA to not be significant enough and warrant regulation under the CLM Act. The closest location to the site is the former Mobil Inverell Depot on the corner of Henderson and Otho Street, Inverell; approximately 600 m to the north-west.

Contamination at the listed site (if present) is not expected to impact the subject site.

4.6 Known Spills and/or Product Losses

ENV interviewed the current site owners in relation to historic use of the UPSS (refer s.3.1). According to information provided by Mr. Campbell during the DSI, one of the steel unleaded fuel lines is known to have leaked and been replaced in about 2013. ENV was not provided with any reports regarding these repairs, or environmental validation associated with the works. In ENV’s experience, it is unlikely that any environmental validation works would have occurred at the time of the repairs.

The spill and associated soil impacts occurred in the portion of the site now owned by Inverell Shire Council. Remediation of the impacted area has been validated in a separate report for that section of the site.

4.7 Previous Investigations

Three known environmental investigations have been conducted previously at the site. Two of these investigations were completed by ENV (2018 and 2021). A third investigation was completed in March 2012, at which time the three existing monitoring wells were installed, however no report was available for review.

A summary of the two previous ENV investigations is provided in the following sub-sections. It is noted that the information presented in the previous reports relate to the combined site (NCPT and Inverell Shire Council Portions which previously existed as a single site).

4.7.1 ENV (2018) – Due Diligence Assessment

In 2018, ENV conducted a due diligence assessment on behalf of North Coast Petroleum (NCPT) for the site. The scope of work and results of the assessment are summarised as follows:

- The investigation was completed for due diligence purposes, to facilitate sale of the property.
- A desktop review of available site history information indicated the site had been used for service station purposes since the 1950s.
- A hazardous chemicals search indicated that various petroleum products have been stored in USTs and above ground gas cylinders at the site, dating from 1954 until the most recent information available in 2006.
- Seven (7) boreholes were drilled using a trailer mounted rig with solid flight augers to a maximum depth of 3.0 m bgl (auger refusal on bedrock). Boreholes were located across the various site areas. Groundwater was not encountered during drilling.
- Seven (7) soil samples were selected for laboratory analysis of petroleum hydrocarbons (TRH, BTEX and PAH) and metals – one per borehole.
- Three existing on-site monitoring wells (MW1, MW2 and MW3) were dry at the time of the investigation and could not be sampled.

- The soil results were either less than laboratory detection limits or less than the human health and ecologically-based screening and investigation levels adopted for a commercial (service station) land use.

On the basis of the results, ENV concluded that the site was suitable for continued commercial land use (ongoing operation as a service station).

4.7.2 ENV (2021) – Detailed Site Investigation (DSI)

ENV was engaged by ISC to undertake a Detailed Site Investigation (DSI) at the site in March 2021. The scope of work and results of the DSI are summarised as follows:

- A site inspection and discussions with the current site operator were completed at the beginning of the field program.
- Ten (10) boreholes were drilled to a maximum depth of 3.8 m below ground level (mBGL; depth of auger refusal on bedrock) across the site.
- A total of 21 soil samples were laboratory analysed for the chemicals of potential concern (COPC), relating to the site's uses for service station and workshop activities (petroleum hydrocarbons, including total recoverable hydrocarbons (TRH); benzene, toluene, ethylbenzene and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAH)); metals and volatile halogenated compounds (VHCs, including chlorinated degreasing agents).
- Groundwater samples were collected from each of the three existing on-site monitoring wells (MW1, MW2 and MW3).
- COPC concentrations in the majority of the 21 primary soil samples analysed were less than the assessment criteria adopted for the investigation, or less than laboratory detection limits.
- Petroleum hydrocarbon concentrations in two samples from two boreholes (BH4 and BH6) exceeded ecologically-based criteria adopted for the assessment. Human health-based (vapour) criteria were exceeded by hydrocarbon concentrations in one borehole (BH4) only.
- A preliminary waste classification was prepared for soils which are likely to require excavation and management as part of future works to remove the existing UPSS and construct the new road and roundabout in the western site portion. A preliminary waste classification of General Solid Waste (GSW) was assigned to soils in the UPSS area, meaning the soils could be disposed to the Inverell Shire landfill as such. Some soils may also be re-used on site as fill. Further classification testing may be required once the soils are excavated and stockpiled on site.
- An evaluation of soil quality was also undertaken for the eastern site portion, which will be retained by the current site owner and developed as a new service station in the near future. Although the layout and detail of any future service station development has not yet been developed, the current soil conditions within the eastern site portion were considered suitable for ongoing commercial land use (service station) in the event that the site surfaces were sealed. However, a reasonable proportion (approximately one third) of the eastern site area was covered by buildings in March 2020, and the underlying soils were not sampled. ENV noted that consideration should be given to assessment of soils beneath the existing buildings once they are demolished – prior to future development of the area.
- Hydrocarbon concentrations exceeding one or more assessment criteria were reported in one of the existing wells – MW3. These COPC included benzene, ethylbenzene and naphthalene, with COPC concentrations exceeding only the criteria adopted for drinking water use of extracted groundwater, and recreational use and freshwater ecosystems associated with freshwater bodies (e.g. Macintyre River). None of the COPC were reported to exceed human health-based criteria for current (or future) site workers. As such, the current groundwater conditions pose no impediment to future development of the site for commercial/industrial purposes (e.g. road construction and service station development).

- On the basis of available licensed bore information, any risks posed by COPC concentrations reported in MW3 to users of licensed bores in the site vicinity were expected to be negligible.
- While the Macintyre River is located down slope (south) from the site, approximately 150 m away at its closest point, it was considered unlikely that the COPC concentrations reported in MW3 would reach the river without prior attenuation to levels which are less than the adopted assessment criteria or less than laboratory detection limits.

On the basis of the DSI results, the following recommendations were made:

- With respect to site owner obligations under Section 60 of the *Contaminated Land Management Act 1997* (the 'CLM Act'), the site owner (understood to be North Coast Petroleum (NCPT)) is considered to have an obligation to notify the NSW EPA of current groundwater conditions, for the following reasons:
 - Contaminants have entered or will foreseeably enter groundwater or surface water;
 - Concentrations of the contaminants in the groundwater or surface water are, or will foreseeably be, above the groundwater investigation level(s) for that contaminant; and,
 - Concentrations of the contaminants in the groundwater or surface water will foreseeably continue to remain above the specified concentration.

Notification of the NSW EPA should occur as soon as is reasonably practicable, in accordance with the document entitled "Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997" (NSW EPA, 2015) and the provisions of the CLM Act.

- A minimum of one well should be installed to the south of MW3, across Glen Innes Road, on Council-owned land. The purpose of this well would be to delineate the impacts reported at MW3, and confirm that concentrations of hydrocarbons in off-site areas, between the contamination source and potential surface water and aquatic receptors associated with the Macintyre River, are less than relevant assessment criteria.
- A Remediation Action Plan (RAP) should be prepared which describes in detail the proposed remedial measures for removal of the existing UPSS and any associated contaminated soils. The RAP should be prepared by a suitably qualified environmental professional, in accordance with the requirements of the NSW EPA (2020) document entitled "Consultants Reporting on Contaminated Land (Contaminated Land Guidelines)".
- Until such time as the existing service station is demolished and a new facility is constructed, groundwater monitoring should continue at the site in accordance with the requirements of the *Protection of the Environment Operations Act 1997* ('POEO Act') and *POEO (Underground Petroleum Storage System (UPSS) Regulation) 2019*.

4.8 Demolition and Remediation Program

During the remedial works program, an additional 2.2KL UST was identified in the eastern portion of the site (Refer Figure 3, Attachment 1). The UST was not previously known and none of the previous environmental investigations had targeted the UST.

5 Data Quality Objectives (DQOs)

5.1 Step 1: State the Problem

The NCPT portion of the site has featured a sales building and mechanical workshop with associated hoists and grease pit. No environmental testing had been undertaken beneath this infrastructure prior to demolition.

The 2.2 kL Kerosene UST was not previously known and as such, none of the previous investigations targeted this location. The UST was required to be decommissioned as part of the remedial program.

These areas of concern have the potential to pose a risk to human users of the site and off-site areas via vapour inhalation and/or direct contact with contaminated soil and groundwater. Additionally, ecological receptors may be at risk via contamination of the upper soil profile, groundwater and/or nearby surface water.

The remedial works included removal of the existing UST, sales building and mechanical workshop and associated hoists (2) and grease pit. Surplus soils were removed from around the USTs, as these were not geotechnically suitable to be used as backfill. These soils were stockpiled on site.

For the purposes of establishing Data Quality Objectives (DQOs) for the investigation, potential soil, soil vapour and groundwater impacts have been considered.

5.2 Step 2: Identify the Decision(s)

The principal decisions (questions) are:

- What is the extent (if any) of the contamination in soil, soil vapour and groundwater at the site, and do the COPC concentrations exceed relevant assessment criteria for the protection of potential receptors?
- Subsequently, what are the identified receptors; and are the contamination pathways to those receptors complete? If so, what risks are potentially posed by the site conditions to these receptors?
- What is the Waste Classification of the site soils, and how can they be managed appropriately once classified?

5.3 Step 3: Inputs into the Decision(s)

To address the decisions in Step 2, the following activities were completed:

- A desktop review of relevant available information, to identify potential gaps in the existing data and to characterise the site setting.
- An inspection of the site and surrounding areas, to gain a better understanding of the problem.
- Soil validation sampling of the excavations associated with the removed infrastructure.
- Sampling to investigate the potential extent of soil contamination at the site.
- Sampling of stockpiled soil to determine if any contamination has been supported within infrastructure backfill.

5.4 Step 4: Define the Study Boundaries

The spatial boundaries of the investigation were limited to the NCPT portion of the site, targeting soils within approximately 5 m either side of the UST and at the footprint of the sales building, mechanical workshop, hoists and grease pit. Investigations in the Council owned portion of the site have been presented in a separate validation report.

With respect to temporal boundaries, the investigation was undertaken by ENV on 21 March 2022, and therefore presents a 'snapshot' only of the site conditions.

5.5 Step 5: Develop the Sampling and Analytical Approach (or decision rule)

During the remedial program, the UST and surrounding soil were inspected with some signs of hydrocarbon or fuel associated contamination at the site. In this regard, the following was undertaken as part of the remedial program:

- Soil was excavated to the extent of contamination (dictated by PID readings or visual and olfactory indicators).
- Sampling of the soils associated with the decommissioned UST in accordance with the requirements of the UPSS Technical Note (EPA, 2014).
- Samples were collected from directly beneath the removed mechanical hoists, grease pit (one (1) at each footprint).
- Sampling of soils in six discrete locations within the building footprints (noting that only four(4) of these samples were analysed).

Data from the soil investigation were compared with the generic (Tier 1) investigation and screening levels presented in Section 5.6.

The precision (reproducibility), accuracy, representativeness and overall reliability of the data sets were assessed using the information presented in Table 2. This included the collection of appropriate quality assurance (QA) samples during sampling, and internal QA testing conducted by the analytical laboratories. The QA sampling regime was adopted from the NEPM and from *AS4482.1 Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil – Part 1: Non-volatile and semi-volatile compounds (2005)*; and *Part 2: Volatile compounds (1999)*.

Table 1: Summary of QA Sample Parameters for Assessing Data Reliability

QA Sample Type	Media	Frequency	Acceptable Range of Results
Precision (Reproducibility)			
Field Sampling			
Intra-lab duplicate	Soil	1 per 20 primary samples, or part thereof	Relative percent difference (RPD) ≤50%
Inter-lab duplicate	Soil	1 per 20 primary samples, or part thereof	RPD ≤50%
Laboratory Analysis			
Internal duplicate	Soil	1 per 10 primary samples	Laboratory specified, concentration dependent; Envirolab: (RPD of any % for concentrations < 5 x LOR; RPD of 0-50% for concentrations > 5 x LOR)
Accuracy			
Laboratory Analysis			
Matrix Spikes	Soil	1 per sampling batch (20 samples per batch)	Laboratory specified; Envirolab: 70-130% (inorganics); 60-140% (organics)
Surrogate Spikes	Soil	1 per sampling batch (20 samples per batch)	Laboratory specified; Envirolab: 70-130% (inorganics); 60-140% (organics)
Laboratory Control Samples	Soil	1 per sampling batch (20 samples per batch)	Laboratory specified; Envirolab: 70-130% (inorganics); 60-140% (organics)
Representativeness			
Laboratory Analysis			
Laboratory Blank	Soil	1 per sampling batch (20 samples per batch)	Results <LOR

5.6 Step 6: Specify the Performance or Acceptance Criteria

The remediation criteria adopted for the investigation were drawn from the following sources:

- National Environment Protection Council (NEPC, 2013). The NEPM - Schedule B(1) Investigation and Screening Levels.
- Friebel, E. and Nadebaum, P. (2011). Health screening levels for petroleum hydrocarbons in soil and groundwater. Summary, CRC CARE Technical Report No. 10. CRC for Contamination Assessment and Remediation of the Environment, Adelaide, Australia.

Based on the above discussion, the following remediation criteria were adopted for the soil investigation:

- NEPM Health Investigation Levels (HILs) and Health Screening Levels (HSLs): exposure setting D (HIL D) for commercial/industrial land use; for fine grained soil (clay). These reflect the expected future use of land at the site and relate to the fine-grained nature of subsurface soils encountered.
- NEPM Ecological Investigation Levels (EILs) and Ecological Screening Levels (ESLs) for commercial/industrial land use (fine grained soil: clay).

The function of the NEPM investigation and screening levels is to be an indicator for contamination. They are not used as maximum permissible levels that would preclude intended land uses. The NEPM recommends that further investigation and health risk assessments are undertaken where chemical concentrations in soil and/or groundwater exceed the screening levels presented in Schedule B(1).

5.6.1 Assumptions and Limitations of Criteria

The threshold and background levels contained in these documents have been established through toxicity tests and field and laboratory experiments. In some cases, insufficient data currently exist to provide thresholds. In these cases, the data are simply used as an indicator of the presence and extent of contamination.

HILs establish the concentration of a contaminant above which further appropriate health investigation and evaluation is required. The HILs are derived from generic assumptions that are not necessarily applicable to a particular site. Concentrations slightly in excess of the HILs do not imply that a significant health risk is likely to be present; rather that further investigation is required to establish the degree of risk posed to potential receptors at the subject site.

The HSLs for soil have been derived from predictive vapour modelling of subsurface volatile compounds. The derivation process makes many assumptions regarding the behaviour of these compounds, which may not be consistent with the sub-surface conditions and consequent behaviour of these compounds at a particular site. Although the HSL methodology enables some parameter inputs to be adjusted to more accurately reflect local soil, site or building conditions, others cannot be adjusted and may affect the accuracy of the HSL adopted for the Tier 1 (screening level) assessment.

5.7 Step 7: Optimise the Design for Obtaining Data

The proposed sampling regime was designed principally to investigate the quality of soil beneath the site. The regime was designed in consideration of guidance provided by the NSW EPA, as well as applicable Australian Standards. The design also considered available information regarding historical use of the site, and likely sources of contamination (UST).

The sampling design was adjusted, as necessary, while on site to take account of the presence and location of underground services, location of UPSS infrastructure (e.g. UST) and stockpiling area.

6 Methodology

6.1 Contractor Information

Details of the contractors involved in the UST removal are provided in Table 3.

Table 2: UST Contractor and Environmental Consultant Details

UST Contractor	
Earthworks and UST removal:	All Areas Demolitions and Excavation (AADEMEX) along with Engineering Mining Petroleum (EMP)
Contact:	Kevin Sparks (AADEMEX)/Pete Reynolds (EMP)
Address	24 Hawke Dr, Woolgoolga NSW 2456 (AADEMEX)
Contact Number	(02) 6654 9417 (AADEMEX)
Environmental Consultant	
Soil sampling, observation of UST removal works:	ENV Solutions
Contact:	Ben Pieterse
Address	313 River Street, Ballina, NSW
Contact Number	0478 170 771

6.2 Preliminaries

A Safe Work Method Statement (SWMS) was prepared for each discrete element of the field program. These documents considered all foreseeable health and safety risks associated with each of the field program tasks. Control measures were implemented for each potential risk, such that acceptable risk levels could be achieved for the works. The SWMS was read, understood and signed by all members of the fieldwork program teams prior to commencing works.

6.3 Decommissioning/Removal

6.3.1 Kerosene UST

The UST decommissioning/removal was conducted by AADEMEX and EMP on 21 March 2022, and an ENV Environmental Scientist was present during the works.

An excavator was used to excavate and remove the UST.

The general progression of works was as follows:

- Overburden spoil was removed;
- Liquid waste was removed by vac truck;
- The UST was removed;
- Hydrocarbon impacted soil was excavated from the UST excavation;
- Excavated soil was stockpiled pending chemical analysis for offsite disposal;
- The excavation was backfilled with VENM material;
- In-situ soil was tested with a PID and visually inspected in order to determine the extent of final excavations.

The kerosene UST was brushed free of soil and inspected for integrity. A hole of approximately 2 cm in diameter was identified on the base of the UST. It is not known if the hole was present during operation, as the UST was likely abandoned some time ago (noting that the use of kerosene heaters phased out through the 1980s-90s).

6.3.2 Mechanical Workshop and Sales Building

The sales building, mechanical workshop, hoists and grease pit were demolished and all waste disposed of prior to ENV's arrival onsite.

Approximately 5 m³ of hydrocarbon impacted soils (of oily appearance) were excavated from the grease pit footprint until no further indication of impacts remained (guided by PID readings, visual and olfactory observations). During the excavation, several fragments of possible asbestos containing material (ACM) were observed. The fragments were noted to be non-friable. Excavated soil was stockpiled pending waste classification for disposal to landfill.

6.3.3 Liquid Waste

Before commencing the removal program, any liquids present in the UST were pumped out by vacuum truck and the UST purged of volatile gases.

Documentation for disposal of the liquid waste is presented in Attachment 5.

6.3.4 Vent Pipework

Vent pipes were disposed off-site by AADEMEX. Disposal documentation can be provided by AADEMEX on request.

6.3.5 Excavated Spoil

Soil excavated from around underground infrastructure were stockpiled onsite pending waste classification to facilitate landfill disposal. Excavations were backfilled with virgin quarry soils to reinstate the ground level.

Approximately 5 m³ of contaminated soil was excavated from the grease pit footprint and an approximate 20 m³ of contaminated soil was removed from the kerosene UST excavation (to 'chase out' hydrocarbon impacted soils).

6.4 Validation Sampling Procedure

Once the UST had been removed, the main excavation was scraped to remove loose soil, and soil validation samples were collected from the exposed in-situ soil. Samples were collected from the base and each wall of the excavation.

Sampling was conducted in accordance with the *NSW EPA Technical Note: Investigation of Service Station Sites (2014)*. Sub-samples of soil were collected at each sampling location for field screening using a PID. A plan showing the validation sampling locations is provided as Figure 3, Attachment 1.

To validate the mechanical hoists and grease pit, one (1) sample was collected from each of their footprints.

For the sales building and mechanical workshop, a total of six (6) grab samples were collected from the building envelopes.

At completion of validation sampling, the excavations were backfilled with a virgin quarry material (soil) (Attachment 5). The excavation was finished level with the surrounding ground surface.

For each waste stockpile, three (3) primary soil samples were collected for waste classification (plus one (1) ACM sample from the 5m³ grease pit waste stockpile), meeting the minimum number of samples required by *NSW EPA Sampling Design Guidelines (1995)*.

All soil samples collected for analyses were transferred to sample jars supplied by the laboratory and placed immediately into an esky with ice pending transport to the analytical laboratories. The samples were sent to the analytical laboratories with accompanying chain of custody (COC) documentation. Each laboratory was accredited by the National Association of Testing Authorities (NATA) for the required analyses. Laboratory reports are provided in Attachment 4.

A total of 18 primary soil samples and one (1) ACM sample were collected. One pair of field duplicate soil samples were collected and analysed for the same COPC as the corresponding primary soil sample (KSP-1). The samples and their respective locations are summarised in Table 4 and meets the recommendations of current guidance (2 per 20 primary samples). Additional duplicate samples were collected during fieldwork conducted on the site portion now owned by Inverell Shire Council (reported separately).

Table 3: Summary of Sampling Details

Area of Concern	Sample ID	Location	Depth (m)	COPC
In Situ Validation Samples				
Kerosene Tank Pit	KTP-B	Base	1.9-2.0	Petroleum Compounds + Metals
	KTP-NE	NE Wall	1.0-1.2	
	KTP-NW	NW Wall		
	KTP-SE	SE Wall		
	KTP-SW	SW Wall		
Mechanical Hoists	H1V-1	Beneath Hoist 1	1.9-2.0	
	H2V-1	Beneath Hoist 2		
Grease Pit	GTV-1	Base of Grease Pit Excavation	0.5-0.6	
Sales and Workshop Buildings	BV-1	Building Footprint	Surface (0.0-0.15)	OCPs and Metals
	BV-2			
	BV-3			
	BV-5			
Waste Classification Samples				
Grease Pit Waste	GTW-1	Waste Stockpile (5 m³)	Stockpile	Petroleum Compounds + Metals
	GTW-2			
	GTW-3			
	GTW-A			Asbestos
Kerosene Tank Pit Waste	KSP-1 (+ QA1 / QA1A)	Waste Stockpile (20 m³)	Stockpile	Petroleum Compounds + Metals
	KSP-2			
	KSP-3			

Photographs taken during the remediation program are included in Attachment 2.

6.5 Field Quality Assurance/Quality Control (QA/QC) Procedures

The following field procedures were used to ensure that samples which were as representative as practicable of the actual site conditions were collected in the field and sent to the laboratory:

- All samples were collected in the field by an appropriately qualified Environmental Scientist from ENV (Ben Pieterse).
- Disposable nitrile gloves were used for all discrete sampling events.
- All samples were sealed in new glass jars, supplied by the analytical laboratories. Each jar was filled such that it contained no headspace (minimising potential loss of volatile compounds).
- Each sample was placed into a chilled esky with ice as soon as possible after collection, pending dispatch to the laboratory.
- Duplicate soil samples were collected by simultaneously filling the glass sample jars provided by the laboratory.

Further details regarding QA samples collected during the field program are provided in Section 6.3.

7 Results

7.1 Field Results

No field indicators of potential hydrocarbon contamination, such as hydrocarbon odours, staining and elevated PID readings were noted at any point in the excavation. PID samples from soil within the excavation(s) ranged from 0 to 5 ppm.

7.2 Laboratory Results

7.2.1 In-situ Soils

Tabulated soil results are provided in Attachment 3. Laboratory documentation is provided in Attachment 4.

Reported results indicate that all levels of hydrocarbons are below detection limits.

Relevant criteria were not exceeded in any of the validation samples collected from the excavations.

All in situ soil validation samples were reported to support COPC concentrations either below the limit of reporting (LOR) (pesticides and petroleum compounds) or within expected background ranges (metals).

7.2.2 Waste Soils

Waste Classification results have been presented separately as individual waste classification briefing notes (i.e. one briefing note has been prepared for each stockpile, allowing for briefing notes to be provided to the receiving landfill). Copies of waste classification briefing notes are presented as Attachment 6.

It is noted that the kerosene tank pit waste stockpile is classifiable as general solid waste (GSW) and the grease pit waste stockpile is classifiable as Asbestos waste.

7.3 Discussion

7.3.1 Soil Quality and Residual Impacts

The reported results indicate that no contamination exists within soils at the site.

No exceedances of relevant criteria were recorded for in situ validations samples.

In summary, soil removed during the excavation was limited to the area where subsurface infrastructure occurred and associated backfill. The UST was excavated to a depth of 2.0 m in order to remove any underlying impacted soils.

7.4 Quality Assurance (QA) and Data Usability Assessment

7.4.1 Field Duplicates

During the soil sampling program, two intra-laboratory duplicate samples and two inter-laboratory duplicate samples (QA1 and QA1A) were collected with primary soil sample KSP-1 and laboratory analysed for the same COPC as the corresponding primary sample.

The ratio of field soil duplicate samples collected was two (2) duplicates per 18 primary soil samples analysed. This ratio achieves the recommendations of current Australian guidance relating to duplicate analysis frequency (2 duplicate samples per 20 primary samples, or part thereof).

Due to an administrative error, both of the duplicate samples were analysed at the primary laboratory. Regardless, both of the duplicate samples have been compared with the primary sample for calculation of the relative percent difference (RPD); to assess the reproducibility of the analytical results. RPDs were not calculated where one or both of the duplicate pair concentrations were less than the laboratory limit of reporting (LOR). An acceptable threshold of 50% was adopted for the calculated RPDs, although higher RPDs were considered acceptable for organic compounds reported at concentrations less than 10 x the limit of reporting. The calculated RPDs are tabulated and presented in Attachment 6.

The majority of calculated RPDs were less than the threshold of 50% for all duplicated analyses with the exception of sample pair QA1 and KSP-1 for:

- TRH C9-C10 – 5%
- F1 – 56%
- TRH C10-C16 – 92%
- F2 – 89%
- TRH C10-C40 – 92%
- Naphthalene – 71%
- Ethylbenzene – 86%
- PAHs (sum) – 93%
- TPH C6-C9 – 67%
- TPH C10-C14 – 92%
- TPH C10-C36 – 95%.

The soils sampled comprised heavy clays. The RPD exceedances are likely attributable to the non-homogenous nature of the soils sampled.

It is noted that the exceedances relate to waste classification samples and as such, the validation is not affected by the RPD variations. All in situ validation samples reported COPC concentrations within background levels or below the LOR.

7.4.2 Laboratory QA Results

The primary analytical laboratory for the soil analyses, Envirolab Sydney, reported the following types of internal QA testing for the soil samples analysed:

- Method blank.
- Internal duplicates.
- Laboratory (matrix) spike recovery.

A review of the results of the method blank analyses indicated that all concentrations were less than the laboratory LOR. This indicates that the potential for cross-contamination of the samples from reagents, glassware and analytical instruments in the laboratory was acceptably low.

A review of the results of the internal duplicate analyses indicated that all RPDs were within acceptable thresholds, indicating acceptable reproducibility.

A review of the results of the internal laboratory control sample and matrix spike analyses indicated that all results were within the laboratory specified limits with exception of low spike recovery for metals. However, it was noted that “acceptable recovery was obtained for the LCS”.

Acceptable matrix spike limits: metals/inorganics – 70 to 130%; organics – 60 to 140%; labile semi-VOCs – 10 to 140%.

These results provide sufficient confidence in the primary data set with respect to potential bias from the sample matrices (i.e. the level of bias is considered acceptable for the matrix analysed – soil).

7.4.3 Summary of Data Usability

Overall, the results of the quality assurance testing conducted in the field by ENV and by the analytical laboratories are considered suitable for the assessment and provide a sufficient level of confidence in the primary soil data set for interpretative purposes. No data has been excluded from the soil data set for interpretation.

8 Conceptual Site Model

8.1 Contamination Sources

Potential leaks and spills from the former UST, mechanical hoists and grease pit were considered to be the primary contamination sources for the validation sampling program. The potential also existed for building materials and pesticides associated with the former building to be a contamination source.

The following information relates to the *in situ* soils only, and does not apply to the currently stockpiled contaminated soil (to be disposed to landfill).

8.2 Chemicals of Potential Concern

Based on the contamination sources described above, the chemicals of potential concern (COPC) within the UST area are primarily petroleum hydrocarbons and metals (lead).

The results of the *in situ* validation sampling undertaken indicate that all hydrocarbon fractions are below the limit of reporting, however all COPC adopted initially for the investigation and validation are summarised in Table 5.

Table 4: Summary of COPC

Chemical	Potentially Affected Media	Comments
Total recoverable hydrocarbons (TRH): <ul style="list-style-type: none"> F1: C₆-C₁₀ minus BTEX F2: >C₁₀-C₁₆ minus naphthalene F3: >C₁₆-C₃₄ F4: >C₃₄-C₄₀ 	Soil, perched/groundwater and soil vapour (<C ₁₆ only)	Health risk-based fractions presented in the NEPM (2013)*. Associated with all forms of petroleum products.
Benzene, toluene, ethylbenzene, xylenes, naphthalene (BTEXN)	Soil, perched/groundwater and soil vapour	Associated primarily with unleaded petrol
Polycyclic aromatic hydrocarbons (PAH)	Soil, perched/groundwater and soil vapour (naphthalene only)	Associated primarily with diesel

*National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) (the 'NEPM').

Where fibre cement board (possible ACM) was identified (in spoil from the grease pit excavation), asbestos has been considered as a COPC for the purpose of waste classification (refer Attachment 6).

8.3 Potentially Affected Media

Hydrocarbons from the former UST and related infrastructure and activities may have affected the quality of soil, perched/groundwater and soil vapour beneath the site.

The results of this UST validation investigation indicate that residual soil from around the UST does not support any hydrocarbon impacts. As such, the risk of groundwater in this portion of

the site being impacted is considered to be acceptably low, without requiring any further investigation.

8.4 Review of Exposure Pathways and Receptors of Contamination

Existing exposure pathways and receptors of contamination in soils, groundwater and soil vapour, based on the results of the soil and groundwater sampling undertaken, are summarised in Table 6.

Table 5: Summary of potential exposure pathways and receptors of contamination

Potential Exposure Pathway	Potential Receptor(s)	Potentially Complete Pathway?	Potential Risk?	Comments
On Site	On Site			
Direct contact with contaminated soil	Current workers at the site	No	No	Soils have been removed from accessible areas of the UST area and grease pit area (to the extent practicable) and contamination does not persist in any of the accessible soils in these areas of concern.
	Future construction/maintenance workers (underground utilities)	No	No	
	Terrestrial ecological receptors	No	No	

Potential Exposure Pathway	Potential Receptor(s)	Potentially Complete Pathway?	Potential Risk?	Comments
On Site	On Site			
Direct contact with contaminated groundwater, including LNAPL	Current site workers	No	No	The risk of groundwater impacts is considered to be low, based on the soil results.
	Future sub-surface workers, including utility pit workers	No	No	
Inhalation of vapours from contaminated soil, groundwater and/or LNAPL	Current site workers	No	No	All soil concentrations are less than the remediation criteria (NEPM criteria for commercial / Industrial landuse). The risk of groundwater impacts is considered to be low, based on the soil results.
	Future sub-surface workers, including utility pit workers (where vapours may accumulate)	No	No	

Potential Exposure Pathway	Potential Receptor(s)	Potentially Complete Pathway?	Potential Risk?	Comments
Off Site	Off Site			
Direct contact with contaminated soil	Off-site workers, including sub-surface workers	No	No	All soil concentrations are less than the remediation criteria (NEPM criteria for commercial / Industrial landuse).
	Off-site residents	No	No	
Direct contact with contaminated groundwater	Off-site workers, including sub-surface workers	No	No	All soil concentrations are less than the remediation criteria (NEPM criteria for commercial / Industrial landuse). The risk of groundwater impacts is considered to be low, based on the soil results.
	Off-site residents, including users of bore water	No	No	
	Ecological receptors in aquatic (freshwater) receiving environments (Macintyre River)	No	No	

Potential Exposure Pathway	Potential Receptor(s)	Potentially Complete Pathway?	Potential Risk?	Comments
Off Site	Off Site			
Inhalation of vapours from soil and/or groundwater	Off-site workers, including sub-surface workers	No	No	All soil concentrations are less than the remediation criteria (NEPM criteria for commercial / Industrial landuse).
	Off-site residents	No	No	The risk of groundwater impacts is considered to be low, based on the soil results.

9 Conclusions

9.1 Conclusions

The objective of the environmental works, which are the subject of this report, was to assess the quality of soils in the vicinity of the UST area and footprint of removed infrastructure, with reference to an assumed ongoing use of the land for commercial purposes (new service station).

The site's kerosene UST and all other infrastructure (sales building, mechanical workshop, mechanical hoists (2) and grease pit) were decommissioned and/or demolished and removed from the site.

The results from the validation process are summarised as follows:

- The UST base featured a hole of approximately 2 cm in diameter.
- Hydrocarbon impacts were evident in soils directly adjacent the UST. These soils were excavated and stockpiled pending waste classification and landfill disposal.
- Potentially contaminated fill sand and in-situ soil was excavated to the extent practicable from around underground infrastructure and stockpiled on site.
- Imported virgin excavated natural material (VENM) material (quarry product) was used to backfill the excavation.
- For in situ validation samples, no exceedance of any relevant criteria was recorded.
- Based on the results of this investigation, there are not considered to be any potential risks associated with residual hydrocarbon contamination at the site in soils or groundwater.

Based on the findings of this validation report, the site is considered to have been successfully remediated and is deemed suitable for the proposed redevelopment as a service station.

9.2 Recommendations

- All stockpiled waste must be disposed of to a suitably licensed facility.
- In accordance with the requirements of the *Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2019* ('UPSS Regulation'), a copy of this report should be provided to Council within 60 days of the completion of the remediation work.

10 References

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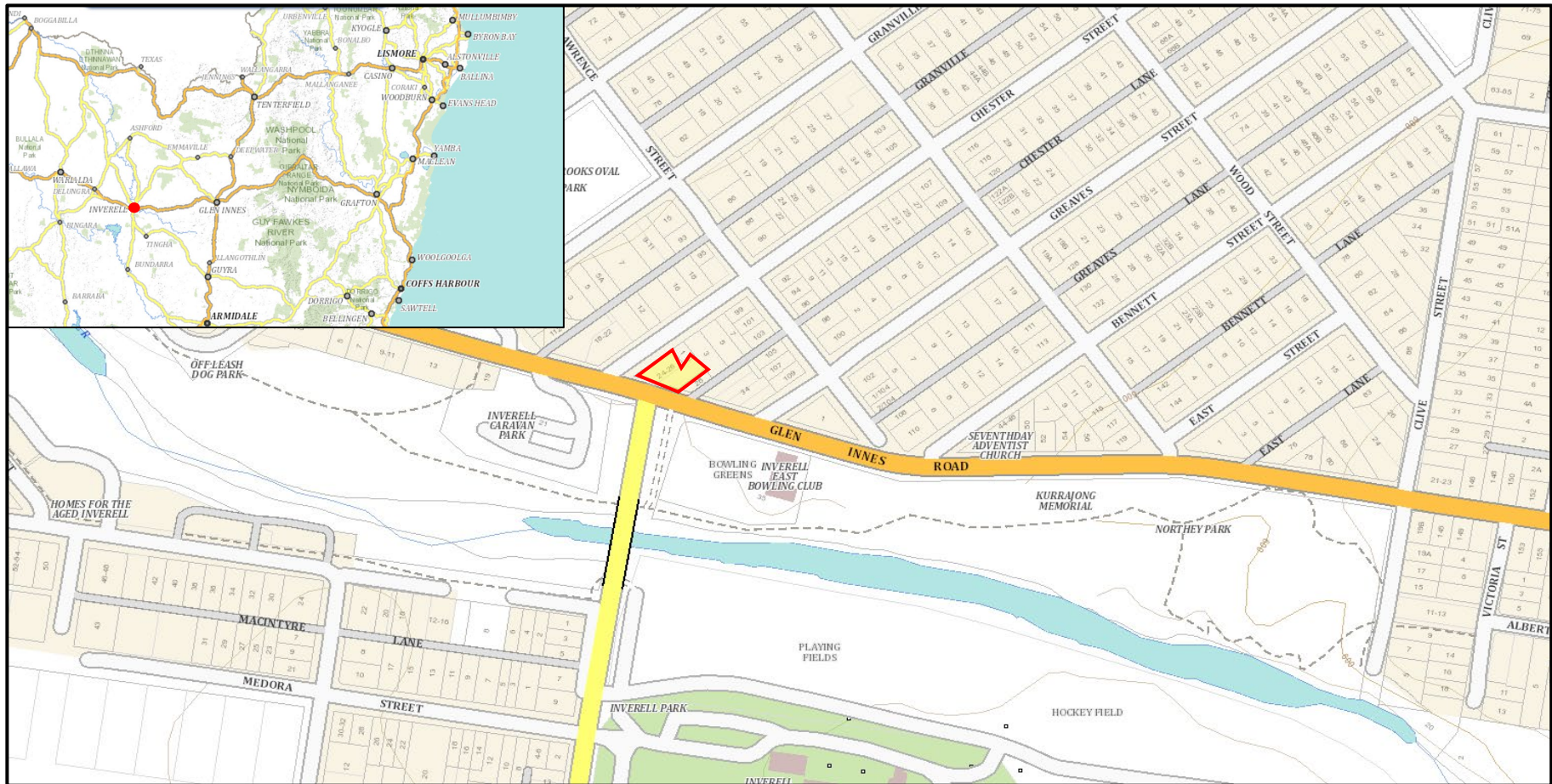
Standards Australia (2008). AS 4976- 2008: The removal and disposal of underground petroleum storage tanks.

11 Attachments

Attachment 1	Figures
Attachment 2	Photographs
Attachment 3	Tabulated Laboratory Results
Attachment 4	Laboratory Documentation
Attachment 5	Disposal Documentation
Attachment 6	Waste Classification Briefs

ATTACHMENT 1

Figures



Site Area (approximate)

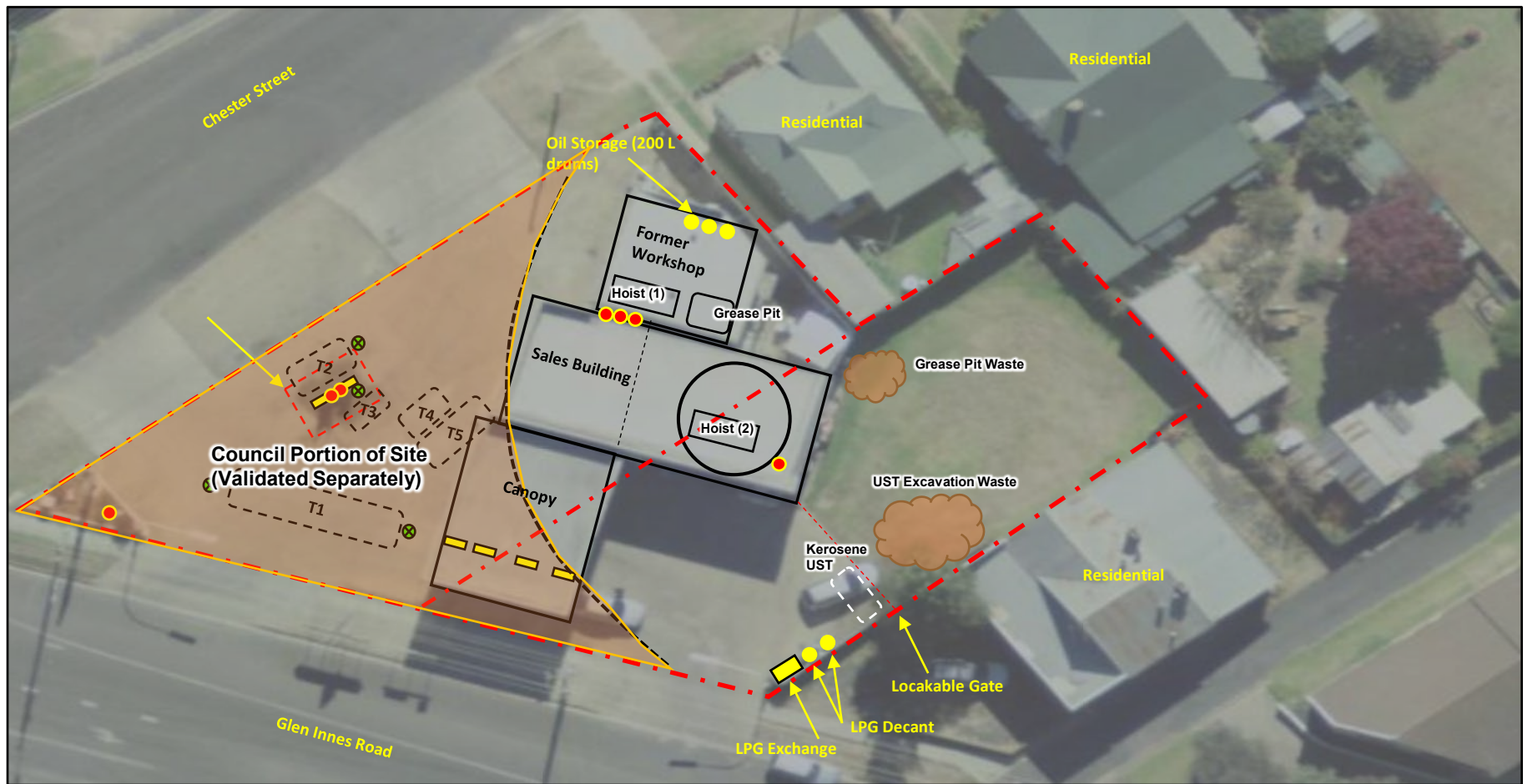


0 50 100 m



Figure 1 - Site Location
24-26 Glen Innes Road, Inverell, NSW 2360

Client: NCPT
Project: Validation (Execution of RAP)
Job No: 216773



- Site Boundary (approximate)
- Dispensing Bowsers
- T3 Underground Storage Tanks (USTs):
- Vent Pipe
- ⊗ Assumed Tank Pit Observation Well
- Approximate Extent of Subdivision
- Waste Stockpiles

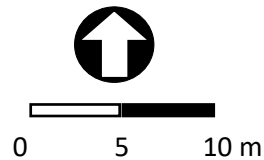
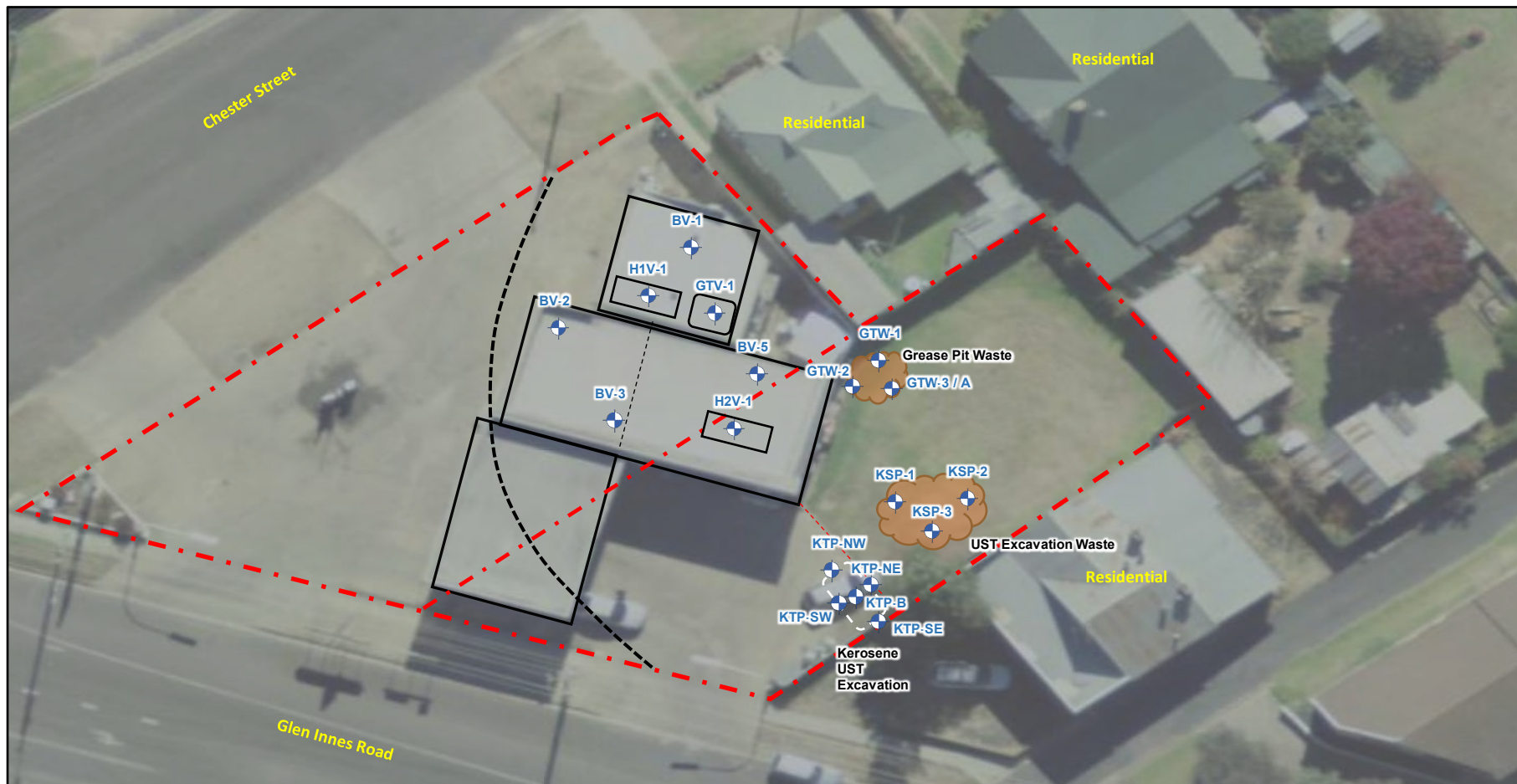


Figure 2 - Site Layout
24-26 Glen Innes Road, Inverell, NSW 2360

Client: NCPT
Project: Validation (Execution of RAP)
Job No: 216773



- - - - - Site Boundary (approximate)
- UST Excavation (Approximate)
- Sample Locations (Approximate)
- - - - - Approximate Subdivision Boundary

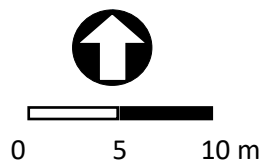


Figure 3 – Validation Sampling Plan
24-26 Glen Innes Road, Inverell, NSW 2360

Client: NCPT
Project: Validation (Execution of RAP)
Job No: 216773

ATTACHMENT 2

Photographs

PHOTOGRAPHIC LOG

Client Name	Site Location	Project
NCPT	24-26 Glenn Innes Road, Inverell NSW	Site Validation

Photo No.	Date	
1	21/03/2022	
Description Image showing the UST in situ.		

Photo No.	Date	
2	21/03/2022	
Description Image showing the grease pit location after impacted soils were removed.		

PHOTOGRAPHIC LOG

Client Name	Site Location	Project
NCPT	24-26 Glenn Innes Road, Inverell NSW	Site Validation




Photo No.	Date	
3	21/03/2022	
Description Image of grease pit waste stockpile. Staining and refuse noted in soils.		

Photo No.	Date	
4	21/03/2022	
Description Image showing hoist 1 location during validation sampling. No hydrocarbon impacts evident.		

Client Name	Site Location	Project
NCPT	24-26 Glenn Innes Road, Inverell NSW	Site Validation

Photo No.	Date	
5	22/03/2022	
Description Image showing liquid waste being removed from the kerosene UST by Vac truck		

Photo No.	Date	
6	22/03/2022	
Description Image showing the pit after the UST had been removed. Hydrocarbon impacts evident in soils adjacent the UST.		

Client Name	Site Location	Project
NCPT	24-26 Glenn Innes Road, Inverell NSW	Site Validation

Photo No.	Date	
7	22/03/2022	
Description Image showing the UST pit after all impacted soils had been 'chased out' and stockpiled pending disposal.		

Photo No.	Date	
8	22/03/2022	
Description Image showing an approximate 2 cm diameter hole in the base of the UST.		

ATTACHMENT 3

Tabulated Laboratory Results

Table 1 - Laboratory Analysis Results: In Situ Validation Samples



	TRH							BTEX						
	C6-C10 Fraction	F1 (C6-C10 minus BTEX)	>C10- C16 Fraction	F2 (>C10- C16 Fraction minus Naphthalene)	>C16- C34 Fraction (F3)	>C34- C40 Fraction (F4)	>C10- C40 Fraction (Sum)	Naphthalene (BTEX)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	25	25	50	50	100	100	50	1	0.2	0.5	1	2	1	1
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil	800		1,000		5,000	10,000								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay		310 480							4 6 9 20					
>=0m, <1m		310							4					
>=1m, <2m		480							6					
>=2m, <4m									9					
>=4m									20					
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil														

Lab Report Number	Field ID	Date	Depth														
291913	BV-1	22/03/2022															
291913	BV-2	22/03/2022															
291913	BV-3	22/03/2022															
291913	BV-5	22/03/2022															
291913	H1V-1	21/03/2022	1.9 - 2	<25	<25	<50	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1
291913	H2V-1	21/03/2022	1.9 - 2	<25	<25	<50	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1
291913	GTV-1	21/03/2022	0.5 - 0.6	<25	<25	<50	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1
291913	KTB-NE	22/03/2022	1 - 1.2	<25	<25	<50	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1
291913	KTB-NW	22/03/2022	1 - 1.2	<25	<25	<50	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1
291913	KTB-P	22/03/2022	1.9 - 2	<25	<25	<50	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1
291913	KTB-SE	22/03/2022	1 - 1.2	<25	<25	<50	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1
291913	KTB-SW	22/03/2022	1 - 1.2	<25	<25	<50	<50	<100	<100	<50	<1	<0.2	<0.5	<1	<2	<1	<1

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

Table 1 - Laboratory Analysis Results: In Situ Validation Samples



	Metals								Halogenated Benzenes	PAH							
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Hexachlorobenzene	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	4	0.4	1	1	1	0.1	1	1	0.1	0.2	0.1	0.1	0.1	0.1	0.05	0.1	0.1
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																	
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																	
>=0m, <1m																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	3,000	900		240,000	1,500	730	6,000	400,000	80								

Lab Report Number	Field ID	Date	Depth																
291913	BV-1	22/03/2022		<4	<0.4	39	13	6	<0.1	44	12	<0.1							
291913	BV-2	22/03/2022		<4	<0.4	73	25	10	<0.1	67	27	<0.1							
291913	BV-3	22/03/2022		<4	<0.4	72	22	8	<0.1	23	25	<0.1							
291913	BV-5	22/03/2022		<4	<0.4	55	21	9	<0.1	46	20	<0.1							
291913	H1V-1	21/03/2022	1.9 - 2	<4	<0.4	43	15	7	<0.1	45	15		<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1
291913	H2V-1	21/03/2022	1.9 - 2	<4	<0.4	47	19	5	<0.1	52	21		<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1
291913	GTV-1	21/03/2022	0.5 - 0.6	<4	<0.4	42	21	11	<0.1	81	17		<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1
291913	KTB-NE	22/03/2022	1 - 1.2	<4	<0.4	31	11	7	<0.1	20	32		<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1
291913	KTB-NW	22/03/2022	1 - 1.2	<4	<0.4	55	20	7	<0.1	43	22		<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1
291913	KTB-P	22/03/2022	1.9 - 2	<4	<0.4	47	15	7	<0.1	59	20		<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1
291913	KTB-SE	22/03/2022	1 - 1.2	<4	<0.4	33	13	5	<0.1	40	12		<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1
291913	KTB-SW	22/03/2022	1 - 1.2	<4	<0.4	65	26	11	<0.1	62	27		<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

Table 1 - Laboratory Analysis Results: In Situ Validation Samples



	PAH								TPH				
	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of positives)	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
EQL	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
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	25	50	100	100	50
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay													
>=0m, <1m													
>=1m, <2m													
>=2m, <4m													
>=4m													
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil													

Lab Report Number	Field ID	Date	Depth													
291913	BV-1	22/03/2022														
291913	BV-2	22/03/2022														
291913	BV-3	22/03/2022														
291913	BV-5	22/03/2022														
291913	H1V-1	21/03/2022	1.9 - 2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<25	<50	<100	<100	<50
291913	H2V-1	21/03/2022	1.9 - 2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<25	<50	<100	<100	<50
291913	GTV-1	21/03/2022	0.5 - 0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<25	<50	<100	<100	<50
291913	KTB-NE	22/03/2022	1 - 1.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<25	<50	<100	<100	<50
291913	KTB-NW	22/03/2022	1 - 1.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<25	<50	<100	<100	<50
291913	KTB-P	22/03/2022	1.9 - 2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<25	<50	<100	<100	<50
291913	KTB-SE	22/03/2022	1 - 1.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<25	<50	<100	<100	<50
291913	KTB-SW	22/03/2022	1 - 1.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<25	<50	<100	<100	<50

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

Table 1 - Laboratory Analysis Results: In Situ Validation Samples



	Organochlorine Pesticides (OCPs)																
	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	g-BHC (Lindane)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																	
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																	
>=0m, <1m																	
>=1m, <2m																	
>=2m, <4m																	
>=4m																	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										3,600					100		

Lab Report Number	Field ID	Date	Depth																
291913	BV-1	22/03/2022		<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
291913	BV-2	22/03/2022		<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
291913	BV-3	22/03/2022		<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
291913	BV-5	22/03/2022		<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
291913	H1V-1	21/03/2022	1.9 - 2																
291913	H2V-1	21/03/2022	1.9 - 2																
291913	GTV-1	21/03/2022	0.5 - 0.6																
291913	KTB-NE	22/03/2022	1 - 1.2																
291913	KTB-NW	22/03/2022	1 - 1.2																
291913	KTB-P	22/03/2022	1.9 - 2																
291913	KTB-SE	22/03/2022	1 - 1.2																
291913	KTB-SW	22/03/2022	1 - 1.2																

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

Table 1 - Laboratory Analysis Results: In Situ Validation Samples



	OCPs		
	Heptachlor	Heptachlor epoxide	Methoxychlor
	mg/kg	mg/kg	mg/kg
EQL	0.1	0.1	0.1
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay			
>=0m, <1m			
>=1m, <2m			
>=2m, <4m			
>=4m			
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	50		2,500

Lab Report Number	Field ID	Date	Depth			
291913	BV-1	22/03/2022		<0.1	<0.1	<0.1
291913	BV-2	22/03/2022		<0.1	<0.1	<0.1
291913	BV-3	22/03/2022		<0.1	<0.1	<0.1
291913	BV-5	22/03/2022		<0.1	<0.1	<0.1
291913	H1V-1	21/03/2022	1.9 - 2			
291913	H2V-1	21/03/2022	1.9 - 2			
291913	GTV-1	21/03/2022	0.5 - 0.6			
291913	KTB-NE	22/03/2022	1 - 1.2			
291913	KTB-NW	22/03/2022	1 - 1.2			
291913	KTB-P	22/03/2022	1.9 - 2			
291913	KTB-SE	22/03/2022	1 - 1.2			
291913	KTB-SW	22/03/2022	1 - 1.2			

Environmental Standards

NEPM, NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

Table 2 - Laboratory Analysis Results: QA Sample RPDs



	TRH							BTEX							Metals		
	C6-C10 Fraction	F1 (C6-C10 minus BTEX)	>C10-C16 Fraction	F2 (>C10-C16 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Naphthalene (BTEX)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Arsenic	Cadmium	Chromium (III+VI)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	25	25	50	50	100	100	50	1	0.2	0.5	1	2	1	1	4	0.4	1

Lab Report Number	Field ID	Date	Matrix Type																	
291913	KSP-1	22/03/2022	Soil	850	840	1,300	1,300	<100	<100	1,300	22	<0.2	<0.5	2	<2	<1	<1	<4	<0.4	63
291913	QA1A	22/03/2022	Soil	760	750	1,400	1,400	<100	<100	1,400	25	<0.2	<0.5	2	<2	<1	<1	<4	<0.4	68
RPD				11	11	7	7	0	0	7	13	0	0	0	0	0	0	0	0	8
291913	KSP-1	22/03/2022	Soil	850	840	1,300	1,300	<100	<100	1,300	22	<0.2	<0.5	2	<2	<1	<1	<4	<0.4	63
291913	QA1	22/03/2022	Soil	1,500	1,500	3,500	3,400	<100	<100	3,500	46	<0.2	<0.5	5	<2	<1	<1	<4	<0.4	59
RPD				55	56	92	89	0	0	92	71	0	0	86	0	0	0	0	0	7

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

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 81 (1 - 10 x EQL); 50 (10 - 30 x EQL); 30 (> 30 x EQL))

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

Table 2 - Laboratory Analysis Results: QA Sample RPDs



	Metals					PAH											
	Copper	Lead	Mercury	Nickel	Zinc	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	1	1	0.1	1	1	0.2	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1

Lab Report Number	Field ID	Date	Matrix Type																
291913	KSP-1	22/03/2022	Soil	28	8	<0.1	65	32	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1
291913	QA1A	22/03/2022	Soil	30	8	<0.1	61	30	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1
RPD				7	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0
291913	KSP-1	22/03/2022	Soil	28	8	<0.1	65	32	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1
291913	QA1	22/03/2022	Soil	29	8	<0.1	61	29	<0.2	0.2	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	0.2	<0.1
RPD				4	0	0	6	10	0	67	0	0	0	0	0	0	0	67	0

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

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 81 (1 - 10 x EQL); 50 (10 - 30 x EQL); 30 (> 30 x EQL))

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

Table 2 - Laboratory Analysis Results: QA Sample RPDs



	PAH				TPH				
	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of positives)	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
EQL	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	0.1	0.1	0.1	0.05	25	50	100	100	50

Lab Report Number	Field ID	Date	Matrix Type									
291913	KSP-1	22/03/2022	Soil	9.8	<0.1	<0.1	9.8	260	1,400	140	<100	1,500
291913	QA1A	22/03/2022	Soil	7.8	<0.1	<0.1	7.8	240	1,400	180	<100	1,600
RPD				23	0	0	23	8	0	25	0	6
291913	KSP-1	22/03/2022	Soil	9.8	<0.1	<0.1	9.8	260	1,400	140	<100	1,500
291913	QA1	22/03/2022	Soil	27	<0.1	<0.1	27	520	3,800	330	<100	4,200
RPD				93	0	0	93	67	92	81	0	95

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

**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 81 (1 - 10 x EQL); 50 (10 - 30 x EQL); 30 (> 30 x EQL))

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

ATTACHMENT 4

Laboratory Documentation

CHAIN OF CUSTODY - Client

ENVIROLAB GROUP - National phone number 1300 42 43 44

Sydney Lab - Envirolab Services
12 Ashley St, Chatswood, NSW 2067
Ph 02 9910 6200 / sydney@envirolab.com.au

Perth Lab - MPL Laboratories
16-18 Hayden Crt Myaree, WA 6154
Ph 08 9317 2505 / lab@mpl.com.au

Melbourne Lab - Envirolab Services
1A Dalmore Drive Scoresby VIC 3179
Ph 03 9763 2500 / melbourne@envirolab.com.au

Brisbane Office - Envirolab Services
20a, 10-20 Depot St, Banyo, QLD 4014
Ph 07 3266 9532 / brisbane@envirolab.com.au

Adelaide Office - Envirolab Services
7a The Parade, Norwood, SA 5067
Ph 0406 350 706 / adelaide@envirolab.com.au

Client: ENV Solutions

Contact Person: Ben Pieterse

Project Mgr: Ben Pieterse

Sampler: BP

Address: 313 River Street, Ballina, NSW

Client Project Name / Number / Site etc (ie report title):

216773

PO No.:

Envirolab Quote No. :**Date results required:**

Note: Inform lab in advance if urgent turnaround is required - surcharges apply

Report format: esdat / equis /

Phone:**Mob:**

0478 170 771

Email:

Ben@envsolutions.com.au &
labresults@envsolutions.com.au

Lab Comments:

Sample information

Tests Required

Comments

[illegible]

Relinquished by (Company): ENV Solutions

Print Name: Ben Pieterse

Date & Time: 23.03.22

Signature: _____ **BP**

Received by (Company):

Print Name:

Date & Time:

Signature:

Lab use only:

Samples Received: Cool or Ambient (circle one)

Temperature Received at: 6 (if applicable)

Transported by: Hand delivered / courier

White - Lab copy / Blue - Client copy / Pink - Retain in Book

Page No:

CHAIN OF CUSTODY - Client

ENVIROLAB GROUP - National phone number 1300 42 43 44

Sydney Lab - Envirolab Services
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Perth Lab - MPL Laboratories
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Ph 08 9317 2505 / lab@mpl.com.au

Melbourne Lab - Envirolab Services
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Ph 03 9763 2500 / melbourne@envirolab.com.au

Brisbane Office - Envirolab Services
20a, 10-20 Depot St, Banyo, QLD 4014
Ph 07 3266 9532 / brisbane@envirolab.com.au

Adelaide Office - Envirolab Services
7a The Parade, Norwood, SA 5067
Ph 0406 350 706 / adelaide@envirolab.com.au

Client: ENV Solutions

Contact Person: Ben Pieterse

Project Mgr: Ben Pieterse

Sampler: BP

Address: 313 River Street, Ballina, NSW

Client Project Name / Number / Site etc (ie report title):

216773

PO No.:

EnviroLab Quote No. :

Date results required:

Note: Inform lab in advance if urgent turnaround is required - surcharges apply

Phone: **Mob:** **0478 170 771**

Report format: esdat / equis /

Email: Ben@envsolutions.com.au & labresults@envsolutions.com.au

Lab Comments:

Sample information

Tests Required

Comments

[illegible]

Relinquished by (Company): ENV Solutions

Print Name: Ben Pieterse

Date & Time: 23.03.22

Signature: _____ **BP**

Received by (Company):

Print Name: WFOFF

Date & Time: 28 3 22 13.00

Signature: _____

Lab use only:

Samples Received: Cool or Ambient (circle one)

Temperature Received at: 6 (if applicable)

Transported by: Hand delivered / courier

White - Lab copy / Blue - Client copy / Pink - Retain in Book

Page No:

CERTIFICATE OF ANALYSIS 291913

Client Details

Client	ENV Solutions Pty Ltd
Attention	Ben Pieterse
Address	313 River St, Ballina, NSW, 2478

Sample Details

Your Reference	<u>216773</u>
Number of Samples	22 Soil, 1 Material
Date samples received	25/03/2022
Date completed instructions received	25/03/2022

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.
 Samples were analysed as received from the client. Results relate specifically to the samples as received.
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	01/04/2022
Date of Issue	01/04/2022
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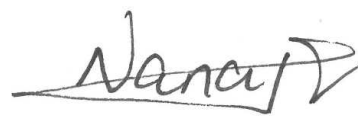
Asbestos Approved By

Analysed by Asbestos Approved Analyst: Wonnie Condos
 Authorised by Asbestos Approved Signatory: Panika Wongchanda

Results Approved By

Dragana Tomas, Senior Chemist
 Giovanni Agosti, Group Technical Manager
 Panika Wongchanda, Asbestos Approved Identifier/Counter
 Thomas Beenie, Lab Technician

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil

Our Reference		291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference	UNITS	H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	440	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	1,400	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	1,400	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	1	<1
m+p-xylene	mg/kg	<2	<2	<2	11	<2
o-Xylene	mg/kg	<1	<1	<1	3	<1
Naphthalene	mg/kg	<1	<1	<1	53	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	14	<1
Surrogate aaa-Trifluorotoluene	%	77	112	118	80	111

vTRH(C6-C10)/BTEXN in Soil

Our Reference		291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference	UNITS	GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	160	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	160	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	7	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	72	103	77	115	113

vTRH(C6-C10)/BTEXN in Soil

Our Reference		291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference	UNITS	KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
TRH C ₆ - C ₉	mg/kg	<25	260	94	<25	520
TRH C ₆ - C ₁₀	mg/kg	<25	850	450	<25	1,500
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	840	450	<25	1,500
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	2	<1	<1	5
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	22	2	<1	46
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	116	108	110	116	103

vTRH(C6-C10)/BTEXN in Soil

Our Reference		291913-17
Your Reference	UNITS	QA2
Depth		-
Date Sampled		22/03/2022
Type of sample		Soil
Date extracted	-	28/03/2022
Date analysed	-	28/03/2022
TRH C ₆ - C ₉	mg/kg	240
TRH C ₆ - C ₁₀	mg/kg	760
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	750
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	2
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	25
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	94

svTRH (C10-C40) in Soil						
Our Reference	UNITS	291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference		H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	4,600	72
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	1,300	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	570	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	6,400	70
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	4,600	72
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	4,500	72
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	1,300	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	250	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	6,100	70
Surrogate o-Terphenyl	%	94	93	94	113	94

svTRH (C10-C40) in Soil						
Our Reference	UNITS	291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference		GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	470	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	140	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	610	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	480	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	470	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	140	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	620	<50	<50	<50	<50
Surrogate o-Terphenyl	%	96	93	95	95	93

svTRH (C10-C40) in Soil

Our Reference		291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference	UNITS	KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	1,400	1,800	100	3,800
TRH C ₁₅ - C ₂₈	mg/kg	<100	140	170	<100	330
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	1,500	2,000	100	4,200
TRH >C ₁₀ -C ₁₆	mg/kg	<50	1,300	1,700	110	3,500
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	1,300	1,700	110	3,400
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	1,300	1,700	110	3,500
Surrogate o-Terphenyl	%	94	97	95	95	97

svTRH (C10-C40) in Soil

Our Reference		291913-17
Your Reference	UNITS	QA2
Depth		-
Date Sampled		22/03/2022
Type of sample		Soil
Date extracted	-	28/03/2022
Date analysed	-	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	1,400
TRH C ₁₅ - C ₂₈	mg/kg	180
TRH C ₂₉ - C ₃₆	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	1,600
TRH >C ₁₀ -C ₁₆	mg/kg	1,400
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	1,400
TRH >C ₁₆ -C ₃₄	mg/kg	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	1,400
Surrogate o-Terphenyl	%	97

PAHs in Soil						
Our Reference		291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference	UNITS	H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	12	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	0.8	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	0.2	<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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	13	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	120	118	119	118	122

PAHs in Soil						
Our Reference		291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference	UNITS	GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Naphthalene	mg/kg	1.7	<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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	1.8	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	120	119	120	119	118

PAHs in Soil						
Our Reference		291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference	UNITS	KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Naphthalene	mg/kg	<0.1	9.8	2.3	<0.1	27
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	9.8	2.3	<0.05	27
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	117	117	116	117	121

PAHs in Soil		
Our Reference		291913-17
Your Reference	UNITS	QA2
Depth		-
Date Sampled		22/03/2022
Type of sample		Soil
Date extracted	-	29/03/2022
Date analysed	-	29/03/2022
Naphthalene	mg/kg	7.8
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+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	7.8
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	110

Organochlorine Pesticides in soil					
Our Reference		291913-18	291913-19	291913-20	291913-22
Your Reference	UNITS	BV-1	BV-2	BV-3	BV-5
Depth		-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	100	87	104	100

Acid Extractable metals in soil

Our Reference		291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference	UNITS	H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	30/03/2022	30/03/2022	30/03/2022	30/03/2022	30/03/2022
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	0.7	<0.4
Chromium	mg/kg	43	47	42	61	54
Copper	mg/kg	15	19	21	180	22
Lead	mg/kg	7	5	11	140	12
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	45	52	81	42	33
Zinc	mg/kg	15	21	17	140	26

Acid Extractable metals in soil

Our Reference		291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference	UNITS	GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	30/03/2022	30/03/2022	30/03/2022	30/03/2022	30/03/2022
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	54	47	31	55	33
Copper	mg/kg	25	15	11	20	13
Lead	mg/kg	15	7	7	7	5
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	38	59	20	43	40
Zinc	mg/kg	29	20	32	22	12

Acid Extractable metals in soil

Our Reference		291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference	UNITS	KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	30/03/2022	30/03/2022	30/03/2022	30/03/2022	30/03/2022
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	65	63	68	69	59
Copper	mg/kg	26	28	29	26	29
Lead	mg/kg	11	8	9	8	8
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	62	65	72	77	61
Zinc	mg/kg	27	32	31	29	29

Acid Extractable metals in soil

Our Reference		291913-17	291913-18	291913-19	291913-20	291913-22
Your Reference	UNITS	QA2	BV-1	BV-2	BV-3	BV-5
Depth		-	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	30/03/2022	30/03/2022	30/03/2022	30/03/2022	30/03/2022
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	68	39	73	72	55
Copper	mg/kg	30	13	25	22	21
Lead	mg/kg	8	6	10	8	9
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	61	44	67	23	46
Zinc	mg/kg	30	12	27	25	20

Moisture						
Our Reference	UNITS	291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference		H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Moisture	%	23	17	24	23	22

Moisture						
Our Reference	UNITS	291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference		GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Moisture	%	25	14	21	24	23

Moisture						
Our Reference	UNITS	291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference		KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Moisture	%	24	23	24	23	23

Moisture						
Our Reference	UNITS	291913-17	291913-18	291913-19	291913-20	291913-22
Your Reference		QA2	BV-1	BV-2	BV-3	BV-5
Depth		-	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Moisture	%	22	24	24	23	21

Asbestos ID - materials		
Our Reference	UNITS	291913-7
Your Reference		GTW-A
Depth		-
Date Sampled		21/03/2022
Type of sample		Material
Date analysed	-	31/03/2022
Mass / Dimension of Sample	-	50x35x4mm
Sample Description	-	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected
Trace Analysis	-	[NT]

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.

Method ID	Methodology Summary
Org-022/025	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.</p> <p>For soil results:-</p> <ol style="list-style-type: none"> 1. 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. <p>Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.</p>
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	<p>Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.</p> <p>Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.</p>

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	291913-2
Date extracted	-			28/03/2022	1	28/03/2022	28/03/2022		28/03/2022	28/03/2022
Date analysed	-			28/03/2022	1	28/03/2022	28/03/2022		28/03/2022	28/03/2022
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	1	<25	<25	0	95	106
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	1	<25	<25	0	95	106
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	107	120
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	100	107
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	85	87
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	107	107
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	80	82
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	110	1	77	114	39	111	114

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	12	28/03/2022	28/03/2022		[NT]	[NT]
Date analysed	-			[NT]	12	28/03/2022	28/03/2022		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	12	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	12	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	12	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	12	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	12	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	12	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	12	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	12	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	12	116	113	3	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	291913-2
Date extracted	-			28/03/2022	1	28/03/2022	28/03/2022		28/03/2022	28/03/2022
Date analysed	-			29/03/2022	1	29/03/2022	29/03/2022		29/03/2022	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	1	<50	<50	0	88	88
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	1	<100	<100	0	90	95
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	1	<100	<100	0	103	109
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	1	<50	<50	0	88	88
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	1	<100	<100	0	90	95
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	1	<100	<100	0	103	109
Surrogate o-Terphenyl	%		Org-020	92	1	94	95	1	91	96

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	12	28/03/2022	28/03/2022		[NT]	[NT]
Date analysed	-			[NT]	12	29/03/2022	29/03/2022		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	12	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	12	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	12	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	12	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	12	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	12	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	12	94	97	3	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	291913-2
Date extracted	-			29/03/2022	1	29/03/2022	29/03/2022		29/03/2022	29/03/2022
Date analysed	-			29/03/2022	1	29/03/2022	29/03/2022		29/03/2022	29/03/2022
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	116	114
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	111	109
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	118	116
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	139	137
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	127	119
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	129	125
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	97	91
Benzo(b,j,k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	104	98
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	119	1	120	121	1	125	118

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	12	29/03/2022	29/03/2022		[NT]	[NT]
Date analysed	-			[NT]	12	29/03/2022	29/03/2022		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j,k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	12	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	12	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	12	117	118	1	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			29/03/2022	[NT]	[NT]	[NT]	[NT]	29/03/2022	[NT]
Date analysed	-			29/03/2022	[NT]	[NT]	[NT]	[NT]	29/03/2022	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	78	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	72	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	108	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	291913-2
Date prepared	-			28/03/2022	1	28/03/2022	28/03/2022		28/03/2022	28/03/2022
Date analysed	-			30/03/2022	1	30/03/2022	30/03/2022		30/03/2022	30/03/2022
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	89	#
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	89	77
Chromium	mg/kg	1	Metals-020	<1	1	43	44	2	92	91
Copper	mg/kg	1	Metals-020	<1	1	15	15	0	88	95
Lead	mg/kg	1	Metals-020	<1	1	7	7	0	91	83
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	116	108
Nickel	mg/kg	1	Metals-020	<1	1	45	39	14	96	101
Zinc	mg/kg	1	Metals-020	<1	1	15	15	0	93	79

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	12	28/03/2022	28/03/2022		[NT]	[NT]
Date analysed	-			[NT]	12	30/03/2022	30/03/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	12	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	12	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	12	65	58	11	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	12	26	22	17	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	12	11	8	32	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	12	62	57	8	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	12	27	24	12	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

8 metals in soil - # Low spike recovery was obtained for this sample. Sample matrix interference is suspected. However, an acceptable recovery was obtained for the LCS

ATTACHMENT 5

Disposal Documentation

Notes:

- 1) This interim report has been published pending provision of further waste documentation from the remediation contractor (AADEMEX).**
- 2) The Remediation program was completed over the NCPT and Council owned portions of the site. As such, waste and quarry fill dockets relate to the joined two sites.**

ABN : 70 602 653 029

REGIONAL QUARRIES INVERELL

PO BOX 4921
DUBBO NSW 2830

Email :

Phone : 02 6721 1111

INVERELL QUARRY

DELIVERY DOCKET

DATE / TIME DOCKET NUMBER

22/03/2022

IN002402

11:11 AM

TRUCK DETAILS

XN52DH TRUCK ONLY

CUSTOMER DETAILS

CASH

ORDER / JOB DETAILS

AADEMEX

DELIVERY ADDRESS

DELIVERY INSTRUCTIONS

PRODUCT DETAILS

GRANITE

EXTRAS & PRICING

ACCOUNT

GROSS MASS	TARE MASS	NET MASS
12.20 T	0.00 T	12.20

DAILY PROGRESSIVE: 85.80 T

DRIVER SIGNATURE

Material Loaded safely as per vehicle standards and regulation
Above Descriptions Checked

CUSTOMER ACCEPTANCE

Signed for acceptance of delivery, product charges and terms a
conditions. Please retain a copy of this docket for reconciliatio
purposes for End of Month invoicing

CUSTOMER COPY

ABN : 70 602 653 029

REGIONAL QUARRIES INVERELL

PO BOX 4921
DUBBO NSW 2830

Email :

Phone : 02 6721 1111

INVERELL QUARRY

DELIVERY DOCKET

DATE / TIME DOCKET NUMBER

22/03/2022

IN002393

08:18 AM

TRUCK DETAILS

XN52DH TRUCK ONLY

CUSTOMER DETAILS

CASH

ORDER / JOB DETAILS

AADEMEX

DELIVERY ADDRESS

DELIVERY INSTRUCTIONS

PRODUCT DETAILS

GRANITE

EXTRAS & PRICING

ACCOUNT

GROSS MASS	TARE MASS	NET MASS
12.40 T	0.00 T	12.40

DAILY PROGRESSIVE: 24.80 T

DRIVER SIGNATURE

Material Loaded safely as per vehicle standards and regulation
Above Descriptions Checked

CUSTOMER ACCEPTANCE

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conditions. Please retain a copy of this docket for reconciliatio
purposes for End of Month invoicing

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ABN : 70 602 653 029

REGIONAL QUARRIES INVERELL

PO BOX 4921
DUBBO NSW 2830

Email :
Phone : 02 6721 1111

INVERELL QUARRY

DELIVERY DOCKET

DATE / TIME	DOCKET NUMBER
-------------	---------------

22/03/2022

IN002398

10:36 AM

TRUCK DETAILS

XN52DH TRUCK ONLY

CUSTOMER DETAILS

CASH

ORDER / JOB DETAILS

AADEMEX

DELIVERY ADDRESS

DELIVERY INSTRUCTIONS

PRODUCT DETAILS

GRANITE

EXTRAS & PRICING

ACCOUNT

GROSS MASS	TARE MASS	NET MASS
12.45 T	0.00 T	12.45

DAILY PROGRESSIVE: 61.50 T

DRIVER SIGNATURE

Material Loaded safely as per vehicle standards and regulation
Above Descriptions Checked

CUSTOMER ACCEPTANCE

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conditions. Please retain a copy of this docket for reconciliatio
purposes for End of Month invoicing

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ABN : 70 602 653 029

REGIONAL QUARRIES INVERELL

PO BOX 4921
DUBBO NSW 2830

Email :
Phone : 02 6721 1111

INVERELL QUARRY

DELIVERY DOCKET

DATE / TIME	DOCKET NUMBER
-------------	---------------

22/03/2022

IN002394

08:45 AM

TRUCK DETAILS

XN52DH TRUCK ONLY

CUSTOMER DETAILS

CASH

ORDER / JOB DETAILS

AADEMEX

DELIVERY ADDRESS

DELIVERY INSTRUCTIONS

PRODUCT DETAILS

GRANITE

EXTRAS & PRICING

ACCOUNT

GROSS MASS	TARE MASS	NET MASS
12.25 T	0.00 T	12.25

DAILY PROGRESSIVE: 37.05 T

DRIVER SIGNATURE

Material Loaded safely as per vehicle standards and regulation
Above Descriptions Checked

CUSTOMER ACCEPTANCE

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conditions. Please retain a copy of this docket for reconciliatio
purposes for End of Month invoicing

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ABN : 70 602 653 029

REGIONAL QUARRIES INVERELL

PO BOX 4921
DUBBO NSW 2830

Email :
Phone : 02 6721 1111

INVERELL QUARRY

DELIVERY DOCKET

DATE / TIME	DOCKET NUMBER
-------------	---------------

22/03/2022

IN002400

10:57 AM

TRUCK DETAILS

XN52DH TRUCK ONLY

CUSTOMER DETAILS

CASH

ORDER / JOB DETAILS

AADEMEX

DELIVERY ADDRESS

DELIVERY INSTRUCTIONS

PRODUCT DETAILS

GRANITE

EXTRAS & PRICING

ACCOUNT

GROSS MASS	TARE MASS	NET MASS
12.10 T	0.00 T	12.10

DAILY PROGRESSIVE: 73.60 T

DRIVER SIGNATURE

Material Loaded safely as per vehicle standards and regulation
Above Descriptions Checked

CUSTOMER ACCEPTANCE

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conditions. Please retain a copy of this docket for reconciliatio
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CUSTOMER COPY

ABN : 70 602 653 029

REGIONAL QUARRIES INVERELL

PO BOX 4921
DUBBO NSW 2830

Email :
Phone : 02 6721 1111

INVERELL QUARRY

DELIVERY DOCKET

DATE / TIME	DOCKET NUMBER
-------------	---------------

22/03/2022

IN002405

11:50 AM

TRUCK DETAILS

XN52DH TRUCK ONLY

CUSTOMER DETAILS

CASH

ORDER / JOB DETAILS

AADEMEX

DELIVERY ADDRESS

DELIVERY INSTRUCTIONS

PRODUCT DETAILS

GRANITE

EXTRAS & PRICING

ACCOUNT

GROSS MASS	TARE MASS	NET MASS
12.10 T	0.00 T	12.10

DAILY PROGRESSIVE: 97.90 T

DRIVER SIGNATURE

Material Loaded safely as per vehicle standards and regulation
Above Descriptions Checked

CUSTOMER ACCEPTANCE

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conditions. Please retain a copy of this docket for reconciliatio
purposes for End of Month invoicing

CUSTOMER COPY

ABN : 70 602 653 029

REGIONAL QUARRIES INVERELL

PO BOX 4921

DUBBO NSW 2830

Email :

Phone : 02 6721 1111

INVERELL QUARRY

DELIVERY DOCKET

DATE / TIME	DOCKET NUMBER
-------------	---------------

22/03/2022

IN002396

10:01 AM

TRUCK DETAILS

XN52DH

TRUCK ONLY

CUSTOMER DETAILS

CASH

ORDER / JOB DETAILS

ADEMEX

DELIVERY ADDRESS

DELIVERY INSTRUCTIONS

PRODUCT DETAILS

GRANITE

EXTRAS & PRICING

ACCOUNT

GROSS MASS	TARE MASS	NET MASS
12.00 T	0.00 T	12.00

DAILY PROGRESSIVE

49.05 T

DRIVER SIGNATURE

Material Loaded safely as per vehicle standards and regulation
Above Descriptions Checked

CUSTOMER ACCEPTANCE

Signed for acceptance of delivery, product charges and terms a
conditions. Please retain a copy of this docket for reconciliatio
purposes for End of Month invoicing

CUSTOMER COPY



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78204

Customer Order No.	HADLMEFX
Date	11-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	22.00
Truck Rego	XN 10 PJ
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS	
WHY YOU SHOULD TAKE CARE	
<ul style="list-style-type: none">When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be releasedBreathing silica dust over time may lead to lung diseaseIncluding bronchitis, silicosis and lung cancer.Precoated or stabilised products may irritate the skin.	
WORKING WITH QUARRY PRODUCTS	
<ul style="list-style-type: none">Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)	
FIRST AID – <ul style="list-style-type: none">Eyes and skin – wash with plenty of waterDust breathed in – move straight to fresh air	CLEAN UP EVERY DAY <ul style="list-style-type: none">Wash your work clothes often – it's best not to wash them in the same wash with other clothesWhen working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:	
HADLMEFX - EX BIN	
Billing Address:	

White – Accounts, Blue – Customer's Copy, Yellow – Book	Driver's Signature:	
Received Subject to Conditions of Sale	Signature:	
	Date:	

REGIONAL QUARRIES

ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery
Docket:

78200

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released. Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

RADEMEX EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's
Signature:

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	RADEMEX
Date	10-3-22
Product Description	GRAVEL
Gross Weight	
Tare Weight	
Net Weight	22-10
Truck Rego	XW10PF
Km	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78198

Customer Order No.	77A DEMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	22-40
Truck Rego	XN 10 PF
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released. Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

- Protect yourself against breathing dust or getting it in your eyes, and against skin contact.
- FIRST AID –
- Eyes and skin – wash with plenty of water
 - Dust breathed in – move straight to fresh air
- CLEAN UP EVERY DAY
- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
 - When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
 - Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:	77A DEMEX EX BIN
Billing Address:	

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Signature:

Received Subject to Conditions of Sale

Date:



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78195

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADDEMEX EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	HADDEMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	21.55
Truck Rego	XN10 PF
Km	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78193

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, Sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precocated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

177 DEMEX EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	177 DEMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	22.20
Truck Rego	XN10PF
Km	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

Delivery Docket: 78190

RAW MATERIALS

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precocated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADJEMEX
EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Received Subject to Conditions of Sale

Signature:

Date:

Customer Order No.	HADJEMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	21-85
Truck Rego	XN 21 XN10PF
Km	



ABN: 70 602 653 029

20L Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78191

Customer Order No.	19ADMEV
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	22-20
Truck Rego	XN10 PF
km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

19ADMEV EX BIN

Billing Address:

Driver's Signature:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Received Subject to Conditions of Sale

Signature:

Date:



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

Delivery Docket: 78189

RAW MATERIALS

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precasted or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

ADAMEX - EX-BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	ADAMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	22-10
Truck Rego	XN10 PF
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

YOU SHOULD TAKE CARE
When quarry products are cut, drilled, sawed, routed, chased,
ended, broken up or ground, silica dust may be released
Breathing silica dust over time may lead to lung disease
Including bronchitis, silicosis and lung cancer.
Uncoated or stabilised products may irritate the skin.

Wear protected clothing, gloves (AS2161) and eye protection
(S/NZ 1337).

Grinding, drilling, sawing, routing, chasing, sanding, breaking
or grinding quarry products –
Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin
contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash
with other clothes

- When working in an enclosed area, wet and sweep OR dry vacuum all dust,
collect solid waste and put all in a covered container – wear all protective
gear.

- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADEMEX - EX BIN

Address:

Accounts, Blue – Customer's Copy, Yellow – Book

Received Subject to Conditions of Sale

Signature:

Date:

Delivery Docket: 78186

RAW MATERIALS

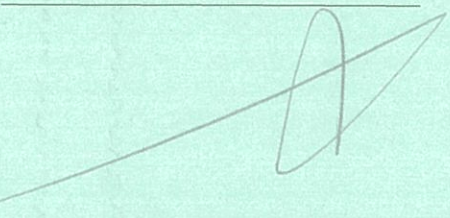
201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

Customer Order No.	HADEMEX
Date	10-3-22
Product Description	GARNITE
Gross Weight	
Tare Weight	
Net Weight	22-05
Truck Rego	XN10 PF
Km	

Customer Order No.	ADDEMEX
Date	10-3-22
Product Description	GRAVITE
Gross Weight	
Tare Weight	
Net Weight	21-15
Truck Rego	XN 10PF
km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS	
WHY YOU SHOULD TAKE CARE	
<ul style="list-style-type: none">• When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released• Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.• Precoated or stabilised products may irritate the skin.	
WORKING WITH QUARRY PRODUCTS	
<ul style="list-style-type: none">• Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).• Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)	
FIRST AID – <ul style="list-style-type: none">• Eyes and skin – wash with plenty of water• Dust breathed in – move straight to fresh air CLEAN UP EVERY DAY	<ul style="list-style-type: none">• Wash your work clothes often – it's best not to wash them in the same wash with other clothes• When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.• Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:	
ADDEMEX	
EX BIN	
Billing Address:	

Received Subject to Conditions of Sale	
Signature:	
Date:	



ABN: 70 602 653 029

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precasted or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products –
- Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADENEX EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

iver's
ature:

Signature:

Date:

Received Subject to Conditions of Sale

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery
Docket:

78177

Customer Order No.	HADENEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	21.80
Truck Rego	XN 10 PF
Km	



ABN: 70 602 653 029

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precasted or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:	
HARDENEX EX BIN	
Billing Address:	

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Received Subject to Conditions of Sale
Signature: _____
Date: _____

Customer Order No.	HARDENEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	22-40
Truck Rego	XN10PF
km	

Delivery Docket: 78175

RAW MATERIALS

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800



ABN: 70 602 653 029

20L Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket:
78169

Customer Order No.	HA DEMEX
Date	10-3-22
Product Description	GARNITE
Gross Weight	
Tare Weight	
Net Weight	22-10
Truck Rego	XW10PF
km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS	
WHY YOU SHOULD TAKE CARE	
<ul style="list-style-type: none">When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be releasedBreathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.Precoated or stabilised products may irritate the skin.	
WORKING WITH QUARRY PRODUCTS	
<ul style="list-style-type: none">Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)	
FIRST AID – <ul style="list-style-type: none">Eyes and skin – wash with plenty of waterDust breathed in – move straight to fresh air	CLEAN UP EVERY DAY <ul style="list-style-type: none">Wash your work clothes often – it's best not to wash them in the same wash with other clothesWhen working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:	
HA DEMEX EX BIN	
Billing Address:	

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Received Subject to Conditions of Sale
Signature: _____
Date: _____



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

Delivery Docket: 78167

RAW MATERIALS

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precasted or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADEMEX
EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Signature:

Driver's Signature:

Received Subject to Conditions of Sale

Signature:

Date:

Customer Order No.	HADEMEX
Date	10-3-22
Product Description	
Gross Weight	
Tare Weight	
Net Weight	22-10
Truck Rego	XN 10 PF
Km	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS
Delivery Docket: 78164

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released. Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADJEMEX
EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Signature:

Received Subject to Conditions of Sale

Date:

Customer Order No.	HADJEMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	21-90
Truck Rego	XN10PF
Km	



ABN: 70 602 653 029

20L Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

Delivery Docket: 78162

RAW MATERIALS

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precasted or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HARDEMEX EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	HARDEMEX
Date	10-3-22
Product Description	CEMENT
Gross Weight	
Tare Weight	
Net Weight	22-00
Truck Rego	XN10PF
km	



ABN: 70 602 653 029

20L Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS
Delivery Docket: 78160

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Prec coated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products –
Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin

contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

ADDMEY – EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's
Signature:

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	ADDMEY
Date	10-3-22
Product Description	Gravel 178
Gross Weight	
Tare Weight	
Net Weight	21-75
Truck Rego	XN10 JF
Km	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78158

Customer Order No.	HADEMEX
Date	10-3-22
Product Description	GEMMITE
Gross Weight	
Tare Weight	
Net Weight	22-05
Truck Rego	XN10 PF
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:	HADEMEX - EX BIN
Billing Address:	

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Received Subject to Conditions of Sale

Signature: _____

Date: _____



ABN: 70 602 653 029

20L Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket:
78156

Customer Order No.	RADEMEX
Date	10-3-22
Product Description	GREENWITE
Gross Weight	
Tare Weight	
Net Weight	22-10
Truck Rego	XN10PF
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS	
WHY YOU SHOULD TAKE CARE	
<ul style="list-style-type: none">When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be releasedBreathing silica dust over time may lead to lung diseaseIncluding bronchitis, silicosis and lung cancer.Precoated or stabilised products may irritate the skin.	
WORKING WITH QUARRY PRODUCTS	
<ul style="list-style-type: none">Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)	
FIRST AID – <ul style="list-style-type: none">Eyes and skin – wash with plenty of waterDust breathed in – move straight to fresh air	CLEAN UP EVERY DAY <ul style="list-style-type: none">Wash your work clothes often – it's best not to wash them in the same wash with other clothesWhen working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:	
RADEMEX	
Billing Address:	

White – Accounts, Blue – Customer's Copy, Yellow – Book	Drivers Signature:
Received Subject to Conditions of Sale	Signature:
Date:	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78102

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

ADDERLEY

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Signature:

Received Subject to Conditions of Sale

Date:

Customer Order No.	
Date	10-3-22
Product Description	CAMMIE
Gross Weight	
Tare Weight	
Net Weight	34.00
Truck Rego	YN 52 OH
km	1963 KI



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

Delivery Docket: 78151

RAW MATERIALS

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precasted or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products –
- Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

ADDEMEX - EXBIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Received Subject to Conditions of Sale

Signature:

Date:

Customer Order No.

ADDEMEX

Date

10-3-22

Product Description

GRANITE

Gross Weight

Tare Weight

Net Weight

20

Truck Rego

XN10PF

Km



ABN: 70 602 653 029

20L Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery
Docket:

78097

Customer Order No.	ADAMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	22-00
Truck Rego	NW10PF
km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS	
WHY YOU SHOULD TAKE CARE	
<ul style="list-style-type: none">When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be releasedBreathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.Precoated or stabilised products may irritate the skin.	
WORKING WITH QUARRY PRODUCTS	
<ul style="list-style-type: none">Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)	
FIRST AID – <ul style="list-style-type: none">Eyes and skin – wash with plenty of waterDust breathed in – move straight to fresh air	CLEAN UP EVERY DAY <ul style="list-style-type: none">Wash your work clothes often – it's best not to wash them in the same wash with other clothesWhen working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:	
ADAMEX – EX BIN	
Billing Address:	

Drivers' Signature:	
Received Subject to Conditions of Sale	
Signature:	
Date:	

White – Accounts, Blue – Customer's Copy, Yellow – Book



ABN: 70 602 653 029

20L Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery
Docket:

78094

Customer Order No.	ADMMEX
Date	10-3-22
Product Description	GREENITE
Gross Weight	
Tare Weight	
Net Weight	20555
Truck Rego	XN 10 RF
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease
- Including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products –
Wear a P2 mask (AS/NZ 1715/1716)

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:	ADMMEX - EX BIN
Billing Address:	

Driver's Signature: 

White – Accounts, Blue – Customer's Copy, Yellow – Book

Received Subject to Conditions of Sale

Signature: _____
Date: _____

REGIONAL QUARRIES

ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78091

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

ADAMEY - EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Signature:

Received Subject to Conditions of Sale

Date:

Customer Order No.	0447662787
Date	9-3-22
Product Description	GRAVEL
Gross Weight	
Tare Weight	
Net Weight	20-40
Truck Rego	XN10PF
Km	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery
Docket:

78090

594.
300
894

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Prec coated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products –
- Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

ADAMEX – EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's
Signature:

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	0447662787
Date	9-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	20-20
Truck Rego	XN10 PF
Km	

Customer Order No.	ADAMEY
Date	10-3-22
Product Description	FORANITE
Gross Weight	
Tare Weight	
Net Weight	11.95
Truck Rego	XN52DH
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS	
WHY YOU SHOULD TAKE CARE	
<ul style="list-style-type: none">When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be releasedBreathing silica dust over time may lead to lung diseaseIncluding bronchitis, silicosis and lung cancer.Precreated or stabilised products may irritate the skin.	
WORKING WITH QUARRY PRODUCTS	
<ul style="list-style-type: none">Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products –Wear a P2 mask (AS/NZ 1715/1716)	
FIRST AID –	CLEAN UP EVERY DAY
<ul style="list-style-type: none">Protect yourself against breathing dust or getting it in your eyes, and against skin contact.Eyes and skin – wash with plenty of waterDust breathed in – move straight to fresh air	<ul style="list-style-type: none">Wash your work clothes often – it's best not to wash them in the same wash with other clothesWhen working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:	
ADAMEX – EX BIN	
Billing Address:	

White – Accounts, Blue – Customer's Copy, Yellow – Book	
Driver's Signature:	Signature:
Received Subject to Conditions of Sale	
Date:	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

Delivery Docket: 78152

RAW MATERIALS

Customer Order No.	ADAMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	11-80
Truck Rego	XV5QDH
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Received Subject to Conditions of Sale
Signature: _____
Date: _____

Customer Name & Delivery Address:	ADAMEX - EX BIN
Billing Address:	



ABN: 70 602 653 029

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

- IF YOU SHOULD TAKE CARE
- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released. Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
 - Prec coated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.

- Follow local authority requirements for getting rid of water.

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Driver's
Signature: _____

Signature: _____

Date: _____

Received Subject to Conditions of Sale

Billing Address: _____

Customer Name & Delivery Address: _____

HADZME X
EX - BIN

Delivery Docket: **78155**

RAW MATERIALS

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

Customer Order No.	HADZME X
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	12-00
Truck Rego	XN 52DH
Km	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery
Docket:

78157

Customer Order No.	ADDMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	11.95
Truck Rego	1195 XNS2 BH
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS	
WHY YOU SHOULD TAKE CARE	
<ul style="list-style-type: none">• When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released• Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.• Precasted or stabilised products may irritate the skin.	
WORKING WITH QUARRY PRODUCTS	
<ul style="list-style-type: none">• Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).• Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)	
<ul style="list-style-type: none">• Protect yourself against breathing dust or getting it in your eyes, and against skin contact.• FIRST AID –<ul style="list-style-type: none">• Eyes and skin – wash with plenty of water• Dust breathed in – move straight to fresh air• CLEAN UP EVERY DAY<ul style="list-style-type: none">• Wash your work clothes often – it's best not to wash them in the same wash with other clothes• When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.• Follow local authority requirements for getting rid of water.	

Customer Name & Delivery Address:	ADDMEX - EX BIN
Billing Address:	

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Driver's
Signature:

[Signature]

Signature:

Date:

Received Subject to Conditions of Sale



ABN: 70 602 653 029

20L Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78159

Customer Order No.	ADAMEX
Date	10-3-22
Product Description	GEMITE
Gross Weight	
Tare Weight	
Net Weight	11-60
Truck Rego	XN52DH
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS	
WHY YOU SHOULD TAKE CARE	
<ul style="list-style-type: none">• When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released• Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.• Precocated or stabilised products may irritate the skin.	
WORKING WITH QUARRY PRODUCTS	
<ul style="list-style-type: none">• Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).• Cutting, drilling, sawing, routing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)	
FIRST AID – <ul style="list-style-type: none">• Eyes and skin – wash with plenty of water• Dust breathed in – move straight to fresh air	CLEAN UP EVERY DAY <ul style="list-style-type: none">• Wash your work clothes often – it's best not to wash them in the same wash with other clothes• When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.• Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:	
ADAMEX - EX BIN	
Billing Address:	

Received Subject to Conditions of Sale	Signature:
	Date:

Driver's Signature:	White – Accounts, Blue – Customer's Copy, Yellow – Book



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery
Docket:

78161

Customer Order No.	HADEMEX
Date	10-3-22
Product Description	Grenite
Gross Weight	
Tare Weight	
Net Weight	11-90
Truck Rego	XN52DH
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS	
WHY YOU SHOULD TAKE CARE	
<ul style="list-style-type: none">When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be releasedBreathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.Precoated or stabilised products may irritate the skin.	
WORKING WITH QUARRY PRODUCTS	
<ul style="list-style-type: none">Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)	
FIRST AID – <ul style="list-style-type: none">Eyes and skin – wash with plenty of waterDust breathed in – move straight to fresh air CLEAN UP EVERY DAY <ul style="list-style-type: none">Wash your work clothes often – it's best not to wash them in the same wash with other clothesWhen working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.Follow local authority requirements for getting rid of water.	

Customer Name & Delivery Address:	
HADEMEX	
EX BIN	
Billing Address:	

Driver's Signature:	
Received Subject to Conditions of Sale	
Signature:	
Date:	

White – Accounts, Blue – Customer's Copy, Yellow – Book



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78163

Customer Order No.	HADEMEX
Date	10-3-22
Product Description	GRAVITE
Gross Weight	
Tare Weight	
Net Weight	11-95
Truck Rego	XNS2DH
km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precocated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:	HADEMEX - EX BIN
Billing Address:	

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Received Subject to Conditions of Sale
Signature: _____
Date: _____



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78165

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADDEMEX EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Greg Brown

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	AA DEMEX
Date	10-3-22
Product Description	Granite
Gross Weight	
Tare Weight	
Net Weight	11-80
Truck Rego	XN 52 DH
Km	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

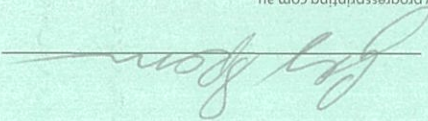
RAW MATERIALS

Delivery Docket: 78166

Customer Order No.	HADEMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	12-40
Truck Rego	XN 52 BH
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS	
WHY YOU SHOULD TAKE CARE <ul style="list-style-type: none">• When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released. Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.• Prec coated or stabilised products may irritate the skin.	WORKING WITH QUARRY PRODUCTS <ul style="list-style-type: none">• Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).• Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)
FIRST AID – <ul style="list-style-type: none">• Eyes and skin – wash with plenty of water• Dust breathed in – move straight to fresh air CLEAN UP EVERY DAY <ul style="list-style-type: none">• Wash your work clothes often – it's best not to wash them in the same wash with other clothes• When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.• Follow local authority requirements for getting rid of water.	

Customer Name & Delivery Address:	
HADEMEX EX BIN	
Billing Address:	

White – Accounts, Blue – Customer's Copy, Yellow – Book	Drivers' Signature: 
Received Subject to Conditions of Sale	Signature: _____
	Date: _____



ABN: 70 602 653 029

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery
Docket:

78168

Customer Order No.	AD525X
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	11-85
Truck Rego	XV52 DH
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS	
WHY YOU SHOULD TAKE CARE	
<ul style="list-style-type: none">• When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released• Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.• Precoated or stabilised products may irritate the skin.	
WORKING WITH QUARRY PRODUCTS	
<ul style="list-style-type: none">• Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).• Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)	
CLEAN UP EVERY DAY	
<ul style="list-style-type: none">• Wash your work clothes often – it's best not to wash them in the same wash with other clothes• When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.• Follow local authority requirements for getting rid of water.	

Customer Name & Delivery Address:	
AD525X EX 13IN	
Billing Address:	

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's
Signature:

[Signature]

Signature:

Date:

Received Subject to Conditions of Sale



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

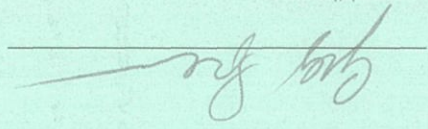
RAW MATERIALS

Delivery Docket: 78171

Customer Order No.	HADEMEX
Date	10-3-22
Product Description	Grit 175
Gross Weight	
Tare Weight	
Net Weight	12-20
Truck Rego	XN52DH
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS	
WHY YOU SHOULD TAKE CARE	
<ul style="list-style-type: none">• When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released• Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.• Precoated or stabilised products may irritate the skin.	
WORKING WITH QUARRY PRODUCTS	
<ul style="list-style-type: none">• Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).• Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)	
<ul style="list-style-type: none">• Protect yourself against breathing dust or getting it in your eyes, and against skin contact.• FIRST AID –<ul style="list-style-type: none">• Eyes and skin – wash with plenty of water• Dust breathed in – move straight to fresh air• CLEAN UP EVERY DAY<ul style="list-style-type: none">• Wash your work clothes often – it's best not to wash them in the same wash with other clothes• When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.• Follow local authority requirements for getting rid of water.	

Customer Name & Delivery Address:	
9HDEMEX EXBIN	
Billing Address:	

Driver's Signature:	
Received Subject to Conditions of Sale	
Signature:	
Date:	

White – Accounts, Blue – Customer's Copy, Yellow – Book



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78174

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released. Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

ADDEX - EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Mr's

Signature: [Handwritten Signature]

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	ADDEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	11-90
Truck Rego	XN52DH
Km	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

Delivery Docket: 78176

RAW MATERIALS

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, Sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precasted or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADEMEX - EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

gag

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	HADEMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	11-75
Truck Rego	XN 52 DH
km	



ABN: 70 602 653 029

20L Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery

Docket: 78181

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease
- Including bronchitis, silicosis and lung cancer.
- Prec coated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products –
- Wear a P2 mask (AS/NZ 1715/1716)

contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADDENEX EX BIN	
Billing Address:	

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's
Signature:

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	HADDENEX
Date	10-3-22
Product Description	GEMITE
Gross Weight	
Tare Weight	
Net Weight	11-80
Truck Rego	XNS2DH
Km	



ABN: 70 602 653 029

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products –
- Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADEMEX - EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Greg

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	HADEMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	11-65
Truck Rego	XN 52DH
Km	

Delivery Docket: 78185

RAW MATERIALS

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78188

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released. Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Prec coated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADEMEX EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	HADEMEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	10-60
Truck Rego	XN52D14
Km	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery
Docket:

78194

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released. Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Prec coated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HAEMEX EX 1317

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's
Signature:

Ray Jones

Signature:

Date:

Received Subject to Conditions of Sale

Km

Truck Rego

XN 52DH

Net Weight

11-95

Tare Weight

Gross Weight

Product Description

GREENITE

Date

10-3-22

Customer Order No.

19HDEMEX



ABN: 70 602 653 029

20L Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78201

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precrated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

191A DEMEX EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

[Signature]

Signature:

Received Subject to Conditions of Sale

Date:

Customer Order No.	HA DEMEX
Date	10-3-22
Product Description	LY2 WHITE
Gross Weight	
Tare Weight	
Net Weight	12-20
Truck Rego	XN 452DH
Km	



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS
Delivery Docket: 78202

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address: <i>ADDUMEX EX BIN</i>	
Billing Address:	

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature: *[Signature]*

Received Subject to Conditions of Sale
Signature: _____
Date: _____

Customer Order No.	<i>ADDUMEX</i>
Date	<i>10-3-22</i>
Product Description	<i>GRANITE</i>
Gross Weight	
Tare Weight	
Net Weight	<i>22-20</i>
Truck Rego	<i>XN100PF</i>
Km	



201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS
Delivery Docket: 78203

ABN: 70 602 653 029

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released
- Breathing silica dust over time may lead to lung disease
- Including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products –
Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:
HA ADDEX
EX 13W

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Received Subject to Conditions of Sale
Signature: _____
Date: _____

Customer Order No.	HA ADDEX
Date	10-3-22
Product Description	GRANITE
Gross Weight	
Tare Weight	
Net Weight	12-10
Truck Rego	XN52DH
Km	

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

- When quarry products are cut, drilled, sawed, routed, chased, sanded, broken up or ground, silica dust may be released. Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

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- Follow local authority requirements for getting rid of water.

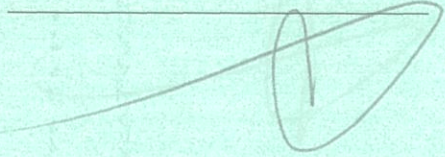
Customer Name & Delivery Address:

ADDEMEX — LX 81N

ing Address:

V – Accounts, Blue – Customer's Copy, Yellow – Book

Drs
Signature:



Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	ADDEMEX
Date	14-3-22
Product Description	GRENITE
Gross Weight	
Tare Weight	
Net Weight	21.85
Truck Rego	XN100F
Km	



ABN: 70 602 653 029

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

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- Breathing silica dust over time may lead to lung disease including bronchitis, silicosis and lung cancer.
- Precoated or stabilised products may irritate the skin.

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- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products – Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

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- Eyes and skin – wash with plenty of water
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- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADDEMEX - EX BIN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Signature:

Received Subject to Conditions of Sale

Date:

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket:

782229

HADDEMEX

Date

14-3-22

Product Description

GEMITE

Gross Weight

Tare Weight

Net Weight

21.25

Truck Rego

XN109F

Km



ABN: 70 602 653 029

201 Sheraton Rd / PO Box 4921
Dubbo NSW 2830,
Phone: 02 5852 1800

RAW MATERIALS

Delivery Docket: 78207

WARNING: WORK SAFETY WITH QUARRY PRODUCTS

WHY YOU SHOULD TAKE CARE

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- Precasted or stabilised products may irritate the skin.

WORKING WITH QUARRY PRODUCTS

- Wear protected clothing, gloves (AS2161) and eye protection (AS/NZ 1337).
- Cutting, drilling, sawing, routing, chasing, sanding, breaking up or grinding quarry products –
- Wear a P2 mask (AS/NZ 1715/1716)

Protect yourself against breathing dust or getting it in your eyes, and against skin contact.

FIRST AID –

- Eyes and skin – wash with plenty of water
- Dust breathed in – move straight to fresh air

CLEAN UP EVERY DAY

- Wash your work clothes often – it's best not to wash them in the same wash with other clothes
- When working in an enclosed area, wet and sweep OR dry vacuum all dust, collect solid waste and put all in a covered container – wear all protective gear.
- Follow local authority requirements for getting rid of water.

Customer Name & Delivery Address:

HADTEMEX EX 13 IN

Billing Address:

White – Accounts, Blue – Customer's Copy, Yellow – Book

Driver's Signature:

Signature:

Date:

Received Subject to Conditions of Sale

Customer Order No.	HADTEMEX
Date	11-3-21
Product Description	GOMITE
Gross Weight	
Tare Weight	
Net Weight	22-30
Truck Rego	XNFO PF
Km	

ATTACHMENT 6

Waste Classification Briefs

28 March 2022

North Coast Petroleum
97 Carrington Street,
Lismore NSW 2480

Attn: North Coast Petroleum

**Re: Waste Classification of Excavated Soil beneath former site structures, as required for full site validation;
24-26 Glenn Innes Road, Inverell NSW 2360**

Introduction

ENV Solutions Pty Ltd (ENV) was commissioned by North Coast Petroleum (the 'client') to classify waste material at the former Liberty branded service station located at 24-26 Glenn Innes Road, Inverell, NSW (the 'site'). The regional location of the site is shown in Figure 1, Attachment 1. Soils were excavated in association with removal of a grease pit, as required for remediation of the site.

The objective of this assessment was to confirm classification of soils to support disposal at a suitably licensed facility.

Consultant Details

This waste classification has been prepared by:

- ENV Solutions Pty Ltd
313 River Street, Ballina, NSW, 2478
ABN: 58 600 788 814

Waste Description

The soil was located in an area of the site previously supporting a grease pit.

Soil was excavated during decommissioning works and stockpiled adjacent to the excavation at the site. Approximately 5 m³ of material was excavated and subsequently requires landfill disposal.

During excavation, fragments of potential asbestos containing material (ACM) were observed (noted to be non-friable).

On the basis of the above information, the material which has been classified by ENV is that which is present in the area indicated on Figure 2, Attachment 1.

Contaminants of Potential Concern

Based on the historical use of the investigation area for petroleum and diesel storage, contaminants of potential concern in the incorporated soils were considered to comprise the following:

- BTEX (Benzene, Toluene, Ethylbenzene, Xylene);
- TRH (Total Recoverable Hydrocarbons);
- TPH (Total Petroleum Hydrocarbons);
- PAH (Polycyclic Aromatic Hydrocarbons); and

- Metals (Arsenic, Cadmium, Chromium (III+VI), Copper, Lead, Mercury, Nickel, Zinc).
- Asbestos

Waste Classification Methodology

Waste classification was carried out using stockpile sampling and chemical assessment (laboratory analysis) along with a site visit and visual assessment of the area and soils.

A soil sampling program was undertaken by an Environmental Scientist from ENV on 22 March 2022.

A shovel was used to collect samples from the stockpile at 3 discrete locations (GTW-1 to GTW-3), targeting the soil with the greatest visual and olfactory signs of hydrocarbon contamination. Sample locations are shown on Figure 2.

The material sampled comprised sandy clay. Photographs from the sampling program are provided as Attachment 2.

All fieldwork was undertaken in accordance with ENV's Standard Operating Procedures (SOPs) and all sampling was conducted using carefully documented quality assurance procedures.

All soil samples were transferred to new, laboratory-supplied sample containers. All samples were labelled with sample location, sample identification and sample date. The samples were then transferred quickly to a chilled cooler for preservation prior to shipment to the laboratory under chain-of-custody (COC) documentation.

Laboratory Analysis

Samples from the field program were submitted to a National Association of Testing Authority (NATA) accredited laboratory (Envirolab) for analysis of the contaminants of potential concern. The results were compared to the criteria provided in the NSW EPA Waste Classification Guidelines (Attachment 3).

Results

Laboratory documents and a summary table of results for the field program are attached to this letter.

A review of the results indicates that the COPC concentrations supported by the waste material are all less than the General Solid Waste CT1 threshold with the exception of sample GTW-1 exceeding General Solid Waste CT1 criteria for both lead and nickel. TCLP analysis was then undertaken on select samples to assess the leachability of material for all metal COPCs. Laboratory reported analytical TCLP results meet General Solid Waste SCC1 and TCLP1 criteria.

During the site visit ENV Solutions noted what appeared to be asbestos containing material (ACM) distributed throughout the stockpiled soil. A fragment of this ACM (GTW-A) was tested and found to contain Chrysotile and Amosite asbestos.

As such, **the soils are classified as Asbestos Waste (Non-Friable) for landfill disposal purposes.**

Tabulated analytical results are attached to this letter report.

Closure

If you have any queries regarding the provided information, please feel free to contact me at the office.

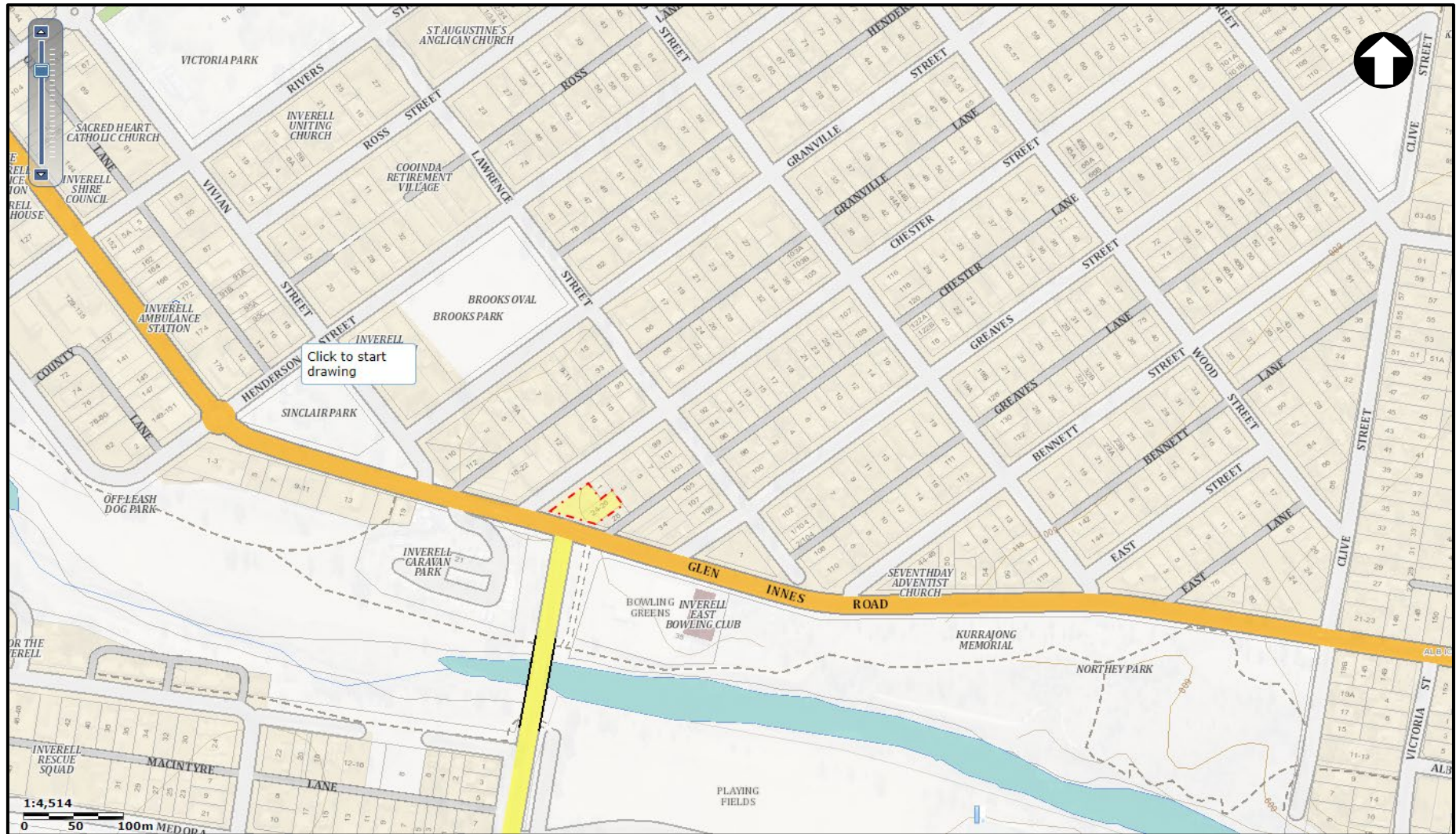
Yours faithfully,



Robert Todhunter
Environmental Scientist
ENV Solutions Pty Ltd

Attachments:

1. Figures (showing Sample Locations and Site Layout)
2. Photographs
3. Results Tables
4. Laboratory Documents



Site Location (Approximate)



Figure 1 – Regional Site Location
24-26 Glenn Innes Road, Inverell NSW 2360
Waste Classification

Project: 216773

Client: North Coast Petroleum

Assessment Date: 22/03/2022



- Site Location (Approximate)
- Excavation Area (Approximate)
- Stockpile (Approximate)



Figure 2 – Investigation Area

24-26 Glenn Innes Road, Inverell NSW 2360
Waste Classification

PHOTOGRAPHIC LOG

Client Name	Site Location	Project
NCPT	24-26 Glenn Innes Road, Inverell NSW	Waste Classification

Photo No.	Date	
1	21/03/2022	
Description Image showing the grease pit area being excavated. Patched of dark hydrocarbon staining and oily soils are evident.		


Photo No.	Date	
2	21/03/2022	
Description Image showing hydrocarbon impacted soils		

Table 1 - Laboratory Analysis Results: XXXX Samples

	Metals							
	Arsenic (filtered)	Cadmium (filtered)	Chromium (III+VI) (filtered)	Copper (filtered)	Lead (filtered)	Mercury (filtered)	Nickel (filtered)	Zinc (filtered)
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.05	0.01	0.01	0.01	0.03	0.0005	0.02	0.02
NSW 2014 General Solid Waste CT1 (No Leaching)								
NSW 2014 General Solid Waste SCC1 (with leached)								
NSW 2014 General Solid Waste TCLP1 (leached)	5	1			5	0.2	2	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)								
NSW 2014 Restricted Solid Waste SCC2 (with leached)								
NSW 2014 Restricted Solid Waste TCLP2 (leached)	20	4			20	0.8	8	

Lab Report Number	Field ID	Date	Depth								
291913-A	GTW-1	21/03/2022		<0.05	<0.01	<0.01	<0.01	<0.03	<0.0005	0.08	0.3

Statistics

Number of Results	2	2	2	2	2	2	2	2
Number of Detects	0	0	0	0	0	0	2	1
Minimum Concentration	<0.05	<0.01	<0.01	<0.01	<0.03	<0.0005	0.08	<0.02
Minimum Detect	ND	ND	ND	ND	ND	ND	0.08	0.3
Maximum Concentration	<0.05	<0.01	<0.01	<0.01	<0.03	<0.0005	0.1	0.3
Maximum Detect	ND	ND	ND	ND	ND	ND	0.1	0.3
Average Concentration *	0.025	0.005	0.005	0.005	0.015	0.00025	0.09	0.16
Median Concentration *	0.025	0.005	0.005	0.005	0.015	0.00025	0.09	0.155
Standard Deviation *	0	0	0	0	0	0	0.014	0.21
95% UCL (Student's-t) *	0.025	0.005	0.005	0.005	0.015	0.00025	0.153	1.07
% of Detects	0	0	0	0	0	0	100	50
% of Non-Detects	100	100	100	100	100	100	0	50

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

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

Table 1 - Laboratory Analysis Results: XXXX Samples



				Metals								BTEX						
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Naphthalene (BTEX)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				4	0.4	1	1	1	0.1	1	1	1	0.2	0.5	1	2	1	1
NSW 2014 General Solid Waste CT1 (No Leaching)				100	20			100	4	40			10	288	600			1,000
NSW 2014 General Solid Waste SCC1 (with leached)				500	100			1,500	50	1,050			18	518	1,080			1,800
NSW 2014 General Solid Waste TCLP1 (leached)																		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				400	80			400	16	160			40	1,152	2,400			4,000
NSW 2014 Restricted Solid Waste SCC2 (with leached)				2,000	400			6,000	200	4,200			72	2,073	4,320			7,200
NSW 2014 Restricted Solid Waste TCLP2 (leached)																		
Lab Report Number	Field ID	Date	Depth															
291913	GTW-1	21/03/2022		<4	0.7	61	180	140	<0.1	42	140	53	<0.2	<0.5	1	11	3	14
291913	GTW-2	21/03/2022		<4	<0.4	54	22	12	<0.1	33	26	<1	<0.2	<0.5	<1	<2	<1	<1
291913	GTW-3	21/03/2022		<4	<0.4	54	25	15	<0.1	38	29	7	<0.2	<0.5	<1	<2	<1	<1
291913	GTW-A	21/03/2022																

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

Table 1 - Laboratory Analysis Results: XXXX Samples



				TPH											
				C6-C9	C10-C14	C15-C28	C29-C36	C6-C10	C10-C16	C16-C34	C10-C36 (Sum of total)	C10-C40 (Sum of total)	C34-C40	F1 (C6-C9 minus BTEX)	F2 (>C10-C16 minus Naphthalene)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				25	50	100	100	25	50	100	50	50	100	25	50
NSW 2014 General Solid Waste CT1 (No Leaching)				650							10,000				
NSW 2014 General Solid Waste SCC1 (with leached)				650							10,000				
NSW 2014 General Solid Waste TCLP1 (leached)															
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				2,600							40,000				
NSW 2014 Restricted Solid Waste SCC2 (with leached)				2,600							40,000				
NSW 2014 Restricted Solid Waste TCLP2 (leached)															
Lab Report Number	Field ID	Date	Depth												
291913	GTW-1	21/03/2022		440	4,600	1,300	570	1,400	4,600	1,300	6,400	6,100	250	1,400	4,500
291913	GTW-2	21/03/2022		<25	72	<100	<100	<25	72	<100	70	70	<100	<25	72
291913	GTW-3	21/03/2022		<25	470	140	<100	160	480	140	610	620	<100	160	470
291913	GTW-A	21/03/2022													

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

Table 1 - Laboratory Analysis Results: XXXX Samples



				PAH																Asbestos	NA	Halogenated Benzenes
				Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of positives)			
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
EQL				0.2	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	-	%	mg/kg
NSW 2014 General Solid Waste CT1 (No Leaching)									0.8													
NSW 2014 General Solid Waste SCC1 (with leached)									10													
NSW 2014 General Solid Waste TCLP1 (leached)																						
NSW 2014 Restricted Solid Waste CT2 (No Leaching)									3.2													
NSW 2014 Restricted Solid Waste SCC2 (with leached)									23													
NSW 2014 Restricted Solid Waste TCLP2 (leached)																						
Lab Report Number	Field ID	Date	Depth																			
291913	GTW-1	21/03/2022		<0.2	0.2	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	0.8	<0.1	12	0.2	<0.1	13		23	
291913	GTW-2	21/03/2022		<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05		22	
291913	GTW-3	21/03/2022		<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	1.7	<0.1	<0.1	1.8		25	
291913	GTW-A	21/03/2022																		Chrysotile asbestos detected: Amosite asbestos detected		
																					25	

Environmental Standards

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

Table 1 - Laboratory Analysis Results: XXXX Samples



				Organochlorine Pesticides																			
				4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	γ-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	γ-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
NSW 2014 General Solid Waste CT1 (No Leaching)																							
NSW 2014 General Solid Waste SCC1 (with leached)																							
NSW 2014 General Solid Waste TCLP1 (leached)																							
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																							
NSW 2014 Restricted Solid Waste SCC2 (with leached)																							
NSW 2014 Restricted Solid Waste TCLP2 (leached)																							
Lab Report Number	Field ID	Date	Depth																				
291913	GTW-1	21/03/2022																					
291913	GTW-2	21/03/2022																					
291913	GTW-3	21/03/2022																					
291913	GTW-A	21/03/2022																					

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

CERTIFICATE OF ANALYSIS 291913

Client Details

Client	ENV Solutions Pty Ltd
Attention	Ben Pieterse
Address	313 River St, Ballina, NSW, 2478

Sample Details

Your Reference	<u>216773</u>
Number of Samples	22 Soil, 1 Material
Date samples received	25/03/2022
Date completed instructions received	25/03/2022

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	01/04/2022
Date of Issue	01/04/2022
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Asbestos Approved By

Analysed by Asbestos Approved Analyst: Wonnies Condos
 Authorised by Asbestos Approved Signatory: Panika Wongchanda

Results Approved By

Dragana Tomas, Senior Chemist
 Giovanni Agosti, Group Technical Manager
 Panika Wongchanda, Asbestos Approved Identifier/Counter
 Thomas Beenie, Lab Technician

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil

Our Reference		291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference	UNITS	H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	440	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	1,400	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	1,400	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	1	<1
m+p-xylene	mg/kg	<2	<2	<2	11	<2
o-Xylene	mg/kg	<1	<1	<1	3	<1
Naphthalene	mg/kg	<1	<1	<1	53	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	14	<1
Surrogate aaa-Trifluorotoluene	%	77	112	118	80	111

vTRH(C6-C10)/BTEXN in Soil

Our Reference		291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference	UNITS	GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	160	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	160	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	7	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	72	103	77	115	113

vTRH(C6-C10)/BTEXN in Soil

Our Reference		291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference	UNITS	KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
TRH C ₆ - C ₉	mg/kg	<25	260	94	<25	520
TRH C ₆ - C ₁₀	mg/kg	<25	850	450	<25	1,500
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	840	450	<25	1,500
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	2	<1	<1	5
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	22	2	<1	46
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	116	108	110	116	103

vTRH(C6-C10)/BTEXN in Soil

Our Reference		291913-17
Your Reference	UNITS	QA2
Depth		-
Date Sampled		22/03/2022
Type of sample		Soil
Date extracted	-	28/03/2022
Date analysed	-	28/03/2022
TRH C ₆ - C ₉	mg/kg	240
TRH C ₆ - C ₁₀	mg/kg	760
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	750
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	2
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	25
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	94

svTRH (C10-C40) in Soil						
Our Reference	UNITS	291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference		H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	4,600	72
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	1,300	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	570	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	6,400	70
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	4,600	72
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	4,500	72
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	1,300	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	250	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	6,100	70
Surrogate o-Terphenyl	%	94	93	94	113	94

svTRH (C10-C40) in Soil						
Our Reference	UNITS	291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference		GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	470	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	140	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	610	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	480	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	470	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	140	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	620	<50	<50	<50	<50
Surrogate o-Terphenyl	%	96	93	95	95	93

svTRH (C10-C40) in Soil

Our Reference		291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference	UNITS	KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	1,400	1,800	100	3,800
TRH C ₁₅ - C ₂₈	mg/kg	<100	140	170	<100	330
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	1,500	2,000	100	4,200
TRH >C ₁₀ -C ₁₆	mg/kg	<50	1,300	1,700	110	3,500
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	1,300	1,700	110	3,400
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	1,300	1,700	110	3,500
Surrogate o-Terphenyl	%	94	97	95	95	97

svTRH (C10-C40) in Soil

Our Reference		291913-17
Your Reference	UNITS	QA2
Depth		-
Date Sampled		22/03/2022
Type of sample		Soil
Date extracted	-	28/03/2022
Date analysed	-	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	1,400
TRH C ₁₅ - C ₂₈	mg/kg	180
TRH C ₂₉ - C ₃₆	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	1,600
TRH >C ₁₀ -C ₁₆	mg/kg	1,400
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	1,400
TRH >C ₁₆ -C ₃₄	mg/kg	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	1,400
Surrogate o-Terphenyl	%	97

PAHs in Soil						
Our Reference		291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference	UNITS	H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	12	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	0.8	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	0.2	<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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	13	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	120	118	119	118	122

PAHs in Soil						
Our Reference		291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference	UNITS	GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Naphthalene	mg/kg	1.7	<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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	1.8	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	120	119	120	119	118

PAHs in Soil						
Our Reference		291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference	UNITS	KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Naphthalene	mg/kg	<0.1	9.8	2.3	<0.1	27
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	9.8	2.3	<0.05	27
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	117	117	116	117	121

PAHs in Soil		
Our Reference		291913-17
Your Reference	UNITS	QA2
Depth		-
Date Sampled		22/03/2022
Type of sample		Soil
Date extracted	-	29/03/2022
Date analysed	-	29/03/2022
Naphthalene	mg/kg	7.8
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+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	7.8
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	110

Organochlorine Pesticides in soil					
Our Reference		291913-18	291913-19	291913-20	291913-22
Your Reference	UNITS	BV-1	BV-2	BV-3	BV-5
Depth		-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	100	87	104	100

Acid Extractable metals in soil

Our Reference		291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference	UNITS	H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	30/03/2022	30/03/2022	30/03/2022	30/03/2022	30/03/2022
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	0.7	<0.4
Chromium	mg/kg	43	47	42	61	54
Copper	mg/kg	15	19	21	180	22
Lead	mg/kg	7	5	11	140	12
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	45	52	81	42	33
Zinc	mg/kg	15	21	17	140	26

Acid Extractable metals in soil

Our Reference		291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference	UNITS	GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	30/03/2022	30/03/2022	30/03/2022	30/03/2022	30/03/2022
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	54	47	31	55	33
Copper	mg/kg	25	15	11	20	13
Lead	mg/kg	15	7	7	7	5
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	38	59	20	43	40
Zinc	mg/kg	29	20	32	22	12

Acid Extractable metals in soil

Our Reference		291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference	UNITS	KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	30/03/2022	30/03/2022	30/03/2022	30/03/2022	30/03/2022
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	65	63	68	69	59
Copper	mg/kg	26	28	29	26	29
Lead	mg/kg	11	8	9	8	8
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	62	65	72	77	61
Zinc	mg/kg	27	32	31	29	29

Acid Extractable metals in soil

Our Reference		291913-17	291913-18	291913-19	291913-20	291913-22
Your Reference	UNITS	QA2	BV-1	BV-2	BV-3	BV-5
Depth		-	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	30/03/2022	30/03/2022	30/03/2022	30/03/2022	30/03/2022
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	68	39	73	72	55
Copper	mg/kg	30	13	25	22	21
Lead	mg/kg	8	6	10	8	9
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	61	44	67	23	46
Zinc	mg/kg	30	12	27	25	20

Moisture						
Our Reference	UNITS	291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference		H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Moisture	%	23	17	24	23	22

Moisture						
Our Reference	UNITS	291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference		GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Moisture	%	25	14	21	24	23

Moisture						
Our Reference	UNITS	291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference		KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Moisture	%	24	23	24	23	23

Moisture						
Our Reference	UNITS	291913-17	291913-18	291913-19	291913-20	291913-22
Your Reference		QA2	BV-1	BV-2	BV-3	BV-5
Depth		-	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Moisture	%	22	24	24	23	21

Asbestos ID - materials		
Our Reference	UNITS	291913-7
Your Reference		GTW-A
Depth		-
Date Sampled		21/03/2022
Type of sample		Material
Date analysed	-	31/03/2022
Mass / Dimension of Sample	-	50x35x4mm
Sample Description	-	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected
Trace Analysis	-	[NT]

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.

Method ID	Methodology Summary
Org-022/025	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.</p> <p>For soil results:-</p> <ol style="list-style-type: none"> 1. 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. <p>Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.</p>
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	<p>Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.</p> <p>Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.</p>

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	291913-2
Date extracted	-			28/03/2022	1	28/03/2022	28/03/2022		28/03/2022	28/03/2022
Date analysed	-			28/03/2022	1	28/03/2022	28/03/2022		28/03/2022	28/03/2022
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	1	<25	<25	0	95	106
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	1	<25	<25	0	95	106
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	107	120
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	100	107
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	85	87
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	107	107
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	80	82
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	110	1	77	114	39	111	114

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	12	28/03/2022	28/03/2022		[NT]	[NT]
Date analysed	-			[NT]	12	28/03/2022	28/03/2022		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	12	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	12	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	12	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	12	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	12	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	12	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	12	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	12	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	12	116	113	3	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	291913-2
Date extracted	-			28/03/2022	1	28/03/2022	28/03/2022		28/03/2022	28/03/2022
Date analysed	-			29/03/2022	1	29/03/2022	29/03/2022		29/03/2022	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	1	<50	<50	0	88	88
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	1	<100	<100	0	90	95
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	1	<100	<100	0	103	109
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	1	<50	<50	0	88	88
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	1	<100	<100	0	90	95
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	1	<100	<100	0	103	109
Surrogate o-Terphenyl	%		Org-020	92	1	94	95	1	91	96

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	12	28/03/2022	28/03/2022		[NT]	[NT]
Date analysed	-			[NT]	12	29/03/2022	29/03/2022		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	12	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	12	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	12	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	12	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	12	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	12	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	12	94	97	3	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	291913-2
Date extracted	-			29/03/2022	1	29/03/2022	29/03/2022		29/03/2022	29/03/2022
Date analysed	-			29/03/2022	1	29/03/2022	29/03/2022		29/03/2022	29/03/2022
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	116	114
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	111	109
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	118	116
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	139	137
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	127	119
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	129	125
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	97	91
Benzo(b,j,k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	104	98
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	119	1	120	121	1	125	118

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	12	29/03/2022	29/03/2022		[NT]	[NT]
Date analysed	-			[NT]	12	29/03/2022	29/03/2022		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j,k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	12	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	12	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	12	117	118	1	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			29/03/2022	[NT]	[NT]	[NT]	[NT]	29/03/2022	[NT]
Date analysed	-			29/03/2022	[NT]	[NT]	[NT]	[NT]	29/03/2022	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	78	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	72	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	108	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	291913-2
Date prepared	-			28/03/2022	1	28/03/2022	28/03/2022		28/03/2022	28/03/2022
Date analysed	-			30/03/2022	1	30/03/2022	30/03/2022		30/03/2022	30/03/2022
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	89	#
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	89	77
Chromium	mg/kg	1	Metals-020	<1	1	43	44	2	92	91
Copper	mg/kg	1	Metals-020	<1	1	15	15	0	88	95
Lead	mg/kg	1	Metals-020	<1	1	7	7	0	91	83
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	116	108
Nickel	mg/kg	1	Metals-020	<1	1	45	39	14	96	101
Zinc	mg/kg	1	Metals-020	<1	1	15	15	0	93	79

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	12	28/03/2022	28/03/2022		[NT]	[NT]
Date analysed	-			[NT]	12	30/03/2022	30/03/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	12	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	12	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	12	65	58	11	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	12	26	22	17	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	12	11	8	32	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	12	62	57	8	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	12	27	24	12	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

8 metals in soil - # Low spike recovery was obtained for this sample. Sample matrix interference is suspected. However, an acceptable recovery was obtained for the LCS

28 March 2022

North Coast Petroleum
97 Carrington Street,
Lismore NSW 2480

Attn: North Coast Petroleum

Re: Waste Classification of Excavated Soil as apart of UPSS decommissioning program, as required for full site validation; 24-26 Glenn Innes Road, Inverell NSW 2360.

Introduction

ENV Solutions Pty Ltd (ENV) was commissioned by North Coast Petroleum (the 'client') to classify waste material at the former Liberty branded service station located at 24-26 Glenn Innes Road, Inverell, NSW (the 'site'). The regional location of the site is shown in Figure 1, Attachment 1. Soils were excavated in association with removal of a kerosene Underground Storage Tank (UST), as required for full site validation.

The objective of this assessment was to confirm classification of soils to support disposal at a suitably licensed facility.

Consultant Details

This waste classification has been prepared by:

- ENV Solutions Pty Ltd
313 River Street, Ballina, NSW, 2478
ABN: 58 600 788 814

Waste Description

The soil was located in an area of the site previously supporting a kerosene UST. Excavation of these soils was required to facilitate decommissioning of sub-surface infrastructure at the site.

Soil was excavated during decommissioning works and stockpiled adjacent to the excavation at the site. Approximately 20 m³ of material was excavated and subsequently requires landfill disposal.

On the basis of the above information, the material which has been classified by ENV is that which is present in the area indicated on Figure 2, Attachment 1.

Contaminants of Potential Concern

Based on the historical use of the investigation area for petroleum and diesel storage, contaminants of potential concern in the incorporated soils were considered to comprise the following:

- BTEX (Benzene, Toluene, Ethylbenzene, Xylene);
- TRH (Total Recoverable Hydrocarbons);
- TPH (Total Petroleum Hydrocarbons);
- PAH (Polycyclic Aromatic Hydrocarbons); and
- Metals (Arsenic, Cadmium, Chromium (III+VI), Copper, Lead, Mercury, Nickel, Zinc).

Waste Classification Methodology

Waste classification was carried out using stockpile sampling and chemical assessment (laboratory analysis) along with a site visit and visual assessment of the area and soils.

A soil sampling program was undertaken by an Environmental Scientist from ENV on 22 March 2022.

A shovel was used to collect samples from the stockpile at 3 discrete locations (KSP-1 to KSP -3), targeting the soil with the greatest visual and olfactory signs of hydrocarbon contamination. Sample locations are shown on Figure 2.

The material sampled comprised sandy clay. Photographs from the sampling program are provided as Attachment 2.

All fieldwork was undertaken in accordance with ENV's Standard Operating Procedures (SOPs) and all sampling was conducted using carefully documented quality assurance procedures.

All soil samples were transferred to new, laboratory-supplied sample containers. All samples were labelled with sample location, sample identification and sample date. The samples were then transferred quickly to a chilled cooler for preservation prior to shipment to the laboratory under chain-of-custody (COC) documentation.

Laboratory Analysis

Samples from the field program were submitted to a National Association of Testing Authority (NATA) accredited laboratory (EnviroLab) for analysis of the contaminants of potential concern. The results were compared to the criteria provided in the NSW EPA Waste Classification Guidelines (Attachment 3).

The ratio of field soil duplicate samples collected was 2 duplicates per 3 primary soil samples analysed for each stockpile per sampling program, which meets the recommendations of current Australian guidance relating to duplicate analysis frequency (2 duplicate samples per 20 primary samples per sampling day, or part thereof). The relative percent difference (RPD) was calculated between primary samples 'KSP-1' and the corresponding duplicates 'QA1' and 'QA1A'.

The calculated RPDs were less than the threshold of 50% for the majority of duplicated analyses. The following exceptions were noted:

- KSP1/QA1: Napthalene (BTEX), Ethyllbenzene, C6-C9, C10-C14, C6-C10, C10-C16, C10-C36 (sum of total), F1 (C6-C9-BTEX), F2 (>C10-C16 minus Napthalene), Napthalene (PAH), and PAHs (sum of positives).

These RPD exceedances may be attributed to variations in sampling and analysis methodology. For the accuracy of reporting the higher value for all RPD exceedances was measured against the relevant waste classification criteria.

Results

Laboratory documents and a summary table of results for the field program are attached to this letter.

A review of the results indicates that the concentrations supported by the waste material are all less than the GSW CT1 threshold with the exception of all samples exceeding General Solid Waste CT1 criteria for Nickel. TCLP analysis was then undertaken on sample KSP-3 (highest recorded Nickel concentration) to assess the leachability of material for all metal COPCs. Due to the laboratory reported analytical TCLP results meeting General Solid Waste SCC1 And TCLP1 criteria, material associated with KSP1-3 is able to be

reclassified as General Solid Waste as per the TCLP and SCC values for classifying waste by chemical assessment.

As such, **the soils are classified as GSW for landfill disposal purposes.**

Tabulated analytical results are attached to this letter report.

Closure

If you have any queries regarding the provided information, please feel free to contact me at the office.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R. Todhunter'.

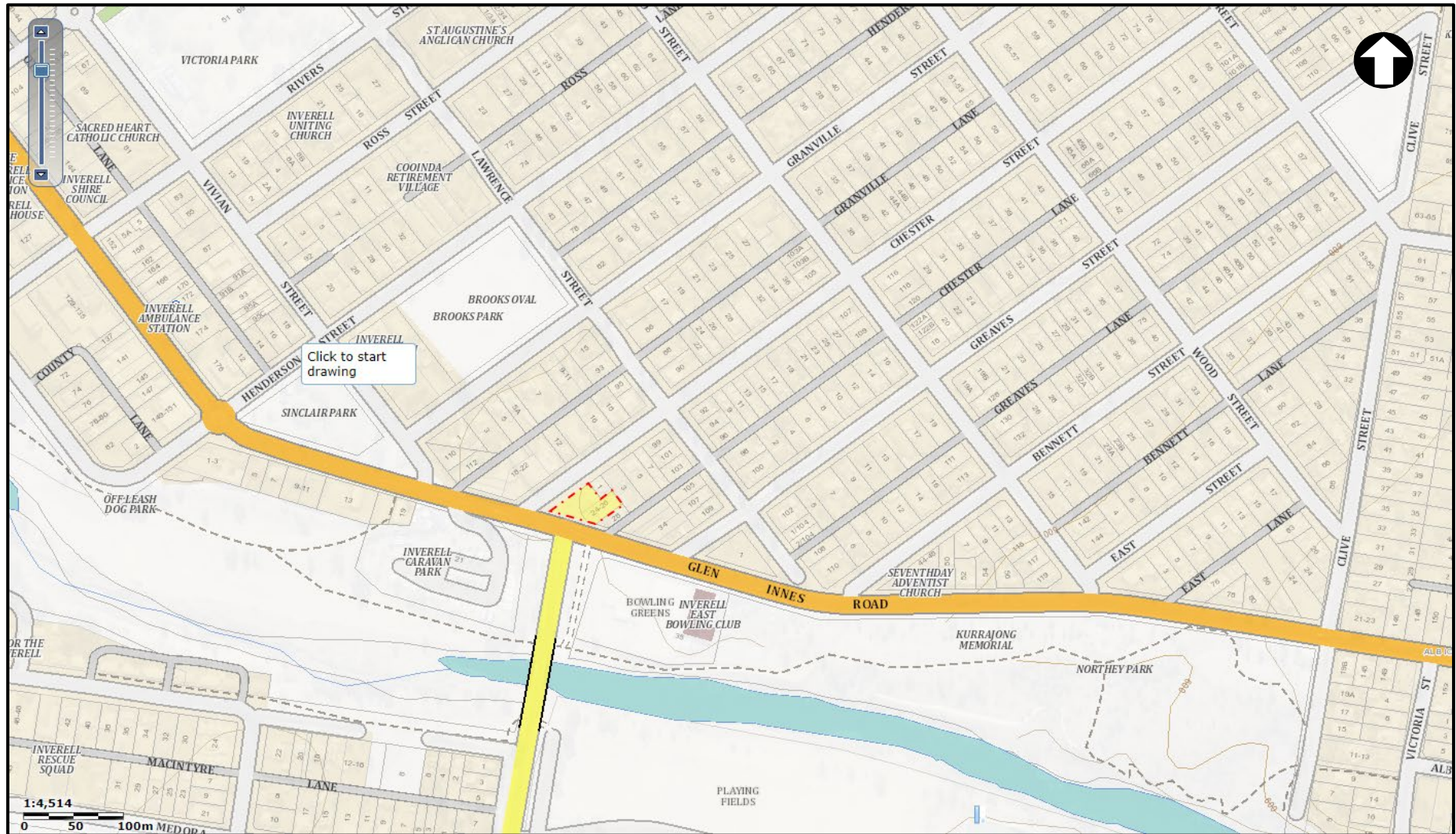
Robert Todhunter

Environmental Scientist

ENV Solutions Pty Ltd

Attachments:

1. Figures (showing Sample Locations and Site Layout)
2. Photographs
3. Results Tables
4. Laboratory Documents



Site Location (Approximate)



Figure 1 – Regional Site Location
24-26 Glenn Innes Road, Inverell NSW 2360
Waste Classification

Project: 216773

Client: North Coast Petroleum

Assessment Date: 22/03/2022



Site Location (Approximate)



Excavation Area (Approximate)



Stockpile (Approximate)



Figure 2 – Investigation Area

24-26 Glenn Innes Road, Inverell NSW 2360
Waste Classification

PHOTOGRAPHIC LOG

Client Name	Site Location	Project
ISC – Peter Atkinson	24-26 Glenn Innes Road, Inverell NSW	Waste Classification

Photo No.	Date	
1	22/03/2022	
Description KSP excavation and stockpiled soil.		


Photo No.	Date	
2	22/03/2022	
Description Sample showing hydrocarbon staining on soil in background.		

Table 1 - Laboratory Analysis Results: XXXX Samples



				Metals								BTEX						
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Naphthalene (BTEX)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				4	0.4	1	1	1	0.1	1	1	1	0.2	0.5	1	2	1	1
NSW 2014 General Solid Waste CT1 (No Leaching)				100	20			100	4	40			10	288	600			1,000
NSW 2014 General Solid Waste SCC1 (with leached)				500	100			1,500	50	1,050			18	518	1,080			1,800
NSW 2014 General Solid Waste TCLP1 (leached)																		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				400	80			400	16	160			40	1,152	2,400			4,000
NSW 2014 Restricted Solid Waste SCC2 (with leached)				2,000	400			6,000	200	4,200			72	2,073	4,320			7,200
NSW 2014 Restricted Solid Waste TCLP2 (leached)																		
Lab Report Number	Field ID	Date	Depth															
291913	GTW-1	21/03/2022		<4	0.7	61	180	140	<0.1	42	140	53	<0.2	<0.5	1	11	3	14
291913	GTW-2	21/03/2022		<4	<0.4	54	22	12	<0.1	33	26	<1	<0.2	<0.5	<1	<2	<1	<1
291913	GTW-3	21/03/2022		<4	<0.4	54	25	15	<0.1	38	29	7	<0.2	<0.5	<1	<2	<1	<1
291913	GTW-A	21/03/2022																

Environmental Standards

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

Table 1 - Laboratory Analysis Results: XXXX Samples



				TPH											
				C6-C9	C10-C14	C15-C28	C29-C36	C6-C10	C10-C16	C16-C34	C10-C36 (Sum of total)	C10-C40 (Sum of total)	C34-C40	F1 (C6-C9 minus BTEX)	F2 (>C10-C16 minus Naphthalene)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				25	50	100	100	25	50	100	50	50	100	25	50
NSW 2014 General Solid Waste CT1 (No Leaching)				650							10,000				
NSW 2014 General Solid Waste SCC1 (with leached)				650							10,000				
NSW 2014 General Solid Waste TCLP1 (leached)															
NSW 2014 Restricted Solid Waste CT2 (No Leaching)				2,600							40,000				
NSW 2014 Restricted Solid Waste SCC2 (with leached)				2,600							40,000				
NSW 2014 Restricted Solid Waste TCLP2 (leached)															
Lab Report Number	Field ID	Date	Depth												
291913	GTW-1	21/03/2022		440	4,600	1,300	570	1,400	4,600	1,300	6,400	6,100	250	1,400	4,500
291913	GTW-2	21/03/2022		<25	72	<100	<100	<25	72	<100	70	70	<100	<25	72
291913	GTW-3	21/03/2022		<25	470	140	<100	160	480	140	610	620	<100	160	470
291913	GTW-A	21/03/2022													

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

Table 1 - Laboratory Analysis Results: XXXX Samples



				PAH																Asbestos	NA	Halogenated Benzenes
				Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of positives)	Asbestos fibres	Moisture Content	Hexachlorobenzene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	%
EQL				0.2	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	-	0.1	0.1
NSW 2014 General Solid Waste CT1 (No Leaching)									0.8													
NSW 2014 General Solid Waste SCC1 (with leached)									10													
NSW 2014 General Solid Waste TCLP1 (leached)																						
NSW 2014 Restricted Solid Waste CT2 (No Leaching)									3.2													
NSW 2014 Restricted Solid Waste SCC2 (with leached)									23													
NSW 2014 Restricted Solid Waste TCLP2 (leached)																						
Lab Report Number	Field ID	Date	Depth																			
291913	GTW-1	21/03/2022		<0.2	0.2	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	0.8	<0.1	12	0.2	<0.1	13		23	
291913	GTW-2	21/03/2022		<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05		22	
291913	GTW-3	21/03/2022		<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	1.7	<0.1	<0.1	1.8		25	
291913	GTW-A	21/03/2022																		Chrysotile asbestos detected: Amosite asbestos detected		
																					25	

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)

NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)

NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)

NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)

NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)

NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

Table 1 - Laboratory Analysis Results: XXXX Samples



				Organochlorine Pesticides																			
				4,4-DDE	α-BHC	Aldrin	β-BHC	Chlordane (cis)	Chlordane (trans)	γ-BHC	DDD	DDT	DDT+DDE+DDD	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	γ-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
NSW 2014 General Solid Waste CT1 (No Leaching)																							
NSW 2014 General Solid Waste SCC1 (with leached)																							
NSW 2014 General Solid Waste TCLP1 (leached)																							
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																							
NSW 2014 Restricted Solid Waste SCC2 (with leached)																							
NSW 2014 Restricted Solid Waste TCLP2 (leached)																							
Lab Report Number	Field ID	Date	Depth																				
291913	GTW-1	21/03/2022																					
291913	GTW-2	21/03/2022																					
291913	GTW-3	21/03/2022																					
291913	GTW-A	21/03/2022																					

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

Table 1 - Laboratory Analysis Results: XXXX Samples



				Metals							
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				4	0.4	1	1	1	0.1	1	1
Lab Report Number	Field ID	Date	Matrix Type								
291913	KSP-1	22/03/2022	Soil	<4	<0.4	63	28	8	<0.1	65	32
291913	QA1A	22/03/2022	Soil	<4	<0.4	68	30	8	<0.1	61	30
RPD				0	0	8	7	0	0	6	6
291913	KSP-1	22/03/2022	Soil	<4	<0.4	63	28	8	<0.1	65	32
291913	QA1	22/03/2022	Soil	<4	<0.4	59	29	8	<0.1	61	29
RPD				0	0	7	4	0	0	6	10

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 81 (1 - 10 x EQL); 50 (10 - 30 x EQL); 30 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Table 1 - Laboratory Analysis Results: XXXX Samples



				BTEX							TPH											
				Naphthalene (BTEX)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	C6-C9	C10-C14	C15-C28	C29-C36	C6-C10	C10-C16	C16-C34	C10-C36 (Sum of total)	C10-C40 (Sum of total)	C34-C40	F1 (C6-C9 minus BTEX)	F2 (>C10-C16 minus Naphthalene)
				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
EQL				1	0.2	0.5	1	2	1	1	25	50	100	100	25	50	100	50	50	100	25	50
Lab Report Number	Field ID	Date	Matrix Type																			
291913	KSP-1	22/03/2022	Soil	22	<0.2	<0.5	2	<2	<1	<1	260	1,400	140	<100	850	1,300	<100	1,500	1,300	<100	840	1,300
291913	QA1A	22/03/2022	Soil	25	<0.2	<0.5	2	<2	<1	<1	240	1,400	180	<100	760	1,400	<100	1,600	1,400	<100	750	1,400
RPD				13	0	0	0	0	0	0	8	0	25	0	11	7	0	6	7	0	11	7
291913	KSP-1	22/03/2022	Soil	22	<0.2	<0.5	2	<2	<1	<1	260	1,400	140	<100	850	1,300	<100	1,500	1,300	<100	840	1,300
291913	QA1	22/03/2022	Soil	46	<0.2	<0.5	5	<2	<1	<1	520	3,800	330	<100	1,500	3,500	<100	4,200	3,500	<100	1,500	3,400
RPD				71	0	0	86	0	0	0	67	92	81	0	55	92	0	95	92	0	56	89

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any m

Table 1 - Laboratory Analysis Results: XXXX Samples



				PAH															NA	
				Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of positives)	Moisture Content
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
EQL				0.2	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	
Lab Report Number	Field ID	Date	Matrix Type																	
291913	KSP-1	22/03/2022	Soil	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	9.8	<0.1	<0.1	9.8	23
291913	QA1A	22/03/2022	Soil	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	7.8	<0.1	<0.1	7.8	22
RPD				0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	23	4
291913	KSP-1	22/03/2022	Soil	<0.2	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	9.8	<0.1	<0.1	9.8	23
291913	QA1	22/03/2022	Soil	<0.2	0.2	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	27	<0.1	<0.1	27	23
RPD				0	67	0	0	0	0	0	0	0	0	67	0	93	0	0	93	0

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any m

Table 1 - Laboratory Analysis Results: XXXX Samples



	Metals							
	Arsenic (filtered)	Cadmium (filtered)	Chromium (III+VI) (filtered)	Copper (filtered)	Lead (filtered)	Mercury (filtered)	Nickel (filtered)	Zinc (filtered)
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.05	0.01	0.01	0.01	0.03	0.0005	0.02	0.02
NSW 2014 General Solid Waste CT1 (No Leaching)								
NSW 2014 General Solid Waste SCC1 (with leached)								
NSW 2014 General Solid Waste TCLP1 (leached)	5	1			5	0.2	2	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)								
NSW 2014 Restricted Solid Waste SCC2 (with leached)								
NSW 2014 Restricted Solid Waste TCLP2 (leached)	20	4			20	0.8	8	

Lab Report Number	Field ID	Date	Depth								
291913-A	KSP-3	22/03/2022		<0.05	<0.01	<0.01	<0.01	<0.03	<0.0005	0.1	<0.02

Environmental Standards

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

CERTIFICATE OF ANALYSIS 291913

Client Details

Client	ENV Solutions Pty Ltd
Attention	Ben Pieterse
Address	313 River St, Ballina, NSW, 2478

Sample Details

Your Reference	<u>216773</u>
Number of Samples	22 Soil, 1 Material
Date samples received	25/03/2022
Date completed instructions received	25/03/2022

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	01/04/2022
Date of Issue	01/04/2022
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Asbestos Approved By

Analysed by Asbestos Approved Analyst: Wonnie Condos
 Authorised by Asbestos Approved Signatory: Panika Wongchanda

Results Approved By

Dragana Tomas, Senior Chemist
 Giovanni Agosti, Group Technical Manager
 Panika Wongchanda, Asbestos Approved Identifier/Counter
 Thomas Beenie, Lab Technician

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil

Our Reference		291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference	UNITS	H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	440	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	1,400	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	1,400	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	1	<1
m+p-xylene	mg/kg	<2	<2	<2	11	<2
o-Xylene	mg/kg	<1	<1	<1	3	<1
Naphthalene	mg/kg	<1	<1	<1	53	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	14	<1
Surrogate aaa-Trifluorotoluene	%	77	112	118	80	111

vTRH(C6-C10)/BTEXN in Soil

Our Reference		291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference	UNITS	GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	160	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	160	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	7	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	72	103	77	115	113

vTRH(C6-C10)/BTEXN in Soil

Our Reference		291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference	UNITS	KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
TRH C ₆ - C ₉	mg/kg	<25	260	94	<25	520
TRH C ₆ - C ₁₀	mg/kg	<25	850	450	<25	1,500
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	840	450	<25	1,500
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	2	<1	<1	5
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	22	2	<1	46
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	116	108	110	116	103

vTRH(C6-C10)/BTEXN in Soil

Our Reference		291913-17
Your Reference	UNITS	QA2
Depth		-
Date Sampled		22/03/2022
Type of sample		Soil
Date extracted	-	28/03/2022
Date analysed	-	28/03/2022
TRH C ₆ - C ₉	mg/kg	240
TRH C ₆ - C ₁₀	mg/kg	760
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	750
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	2
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	25
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	94

svTRH (C10-C40) in Soil						
Our Reference	UNITS	291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference		H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	4,600	72
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	1,300	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	570	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	6,400	70
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	4,600	72
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	4,500	72
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	1,300	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	250	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	6,100	70
Surrogate o-Terphenyl	%	94	93	94	113	94

svTRH (C10-C40) in Soil						
Our Reference	UNITS	291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference		GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	470	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	140	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	610	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	480	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	470	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	140	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	620	<50	<50	<50	<50
Surrogate o-Terphenyl	%	96	93	95	95	93

svTRH (C10-C40) in Soil

Our Reference		291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference	UNITS	KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	1,400	1,800	100	3,800
TRH C ₁₅ - C ₂₈	mg/kg	<100	140	170	<100	330
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	1,500	2,000	100	4,200
TRH >C ₁₀ -C ₁₆	mg/kg	<50	1,300	1,700	110	3,500
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	1,300	1,700	110	3,400
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	1,300	1,700	110	3,500
Surrogate o-Terphenyl	%	94	97	95	95	97

svTRH (C10-C40) in Soil

Our Reference		291913-17
Your Reference	UNITS	QA2
Depth		-
Date Sampled		22/03/2022
Type of sample		Soil
Date extracted	-	28/03/2022
Date analysed	-	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	1,400
TRH C ₁₅ - C ₂₈	mg/kg	180
TRH C ₂₉ - C ₃₆	mg/kg	<100
Total +ve TRH (C10-C36)	mg/kg	1,600
TRH >C ₁₀ -C ₁₆	mg/kg	1,400
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	1,400
TRH >C ₁₆ -C ₃₄	mg/kg	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	1,400
Surrogate o-Terphenyl	%	97

PAHs in Soil						
Our Reference		291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference	UNITS	H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	12	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	0.8	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	0.2	<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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	13	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	120	118	119	118	122

PAHs in Soil						
Our Reference		291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference	UNITS	GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Naphthalene	mg/kg	1.7	<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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	1.8	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	120	119	120	119	118

PAHs in Soil						
Our Reference		291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference	UNITS	KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Naphthalene	mg/kg	<0.1	9.8	2.3	<0.1	27
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
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+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	9.8	2.3	<0.05	27
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	117	117	116	117	121

PAHs in Soil		
Our Reference		291913-17
Your Reference	UNITS	QA2
Depth		-
Date Sampled		22/03/2022
Type of sample		Soil
Date extracted	-	29/03/2022
Date analysed	-	29/03/2022
Naphthalene	mg/kg	7.8
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+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	7.8
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	110

Organochlorine Pesticides in soil					
Our Reference		291913-18	291913-19	291913-20	291913-22
Your Reference	UNITS	BV-1	BV-2	BV-3	BV-5
Depth		-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	100	87	104	100

Acid Extractable metals in soil

Our Reference		291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference	UNITS	H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	30/03/2022	30/03/2022	30/03/2022	30/03/2022	30/03/2022
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	0.7	<0.4
Chromium	mg/kg	43	47	42	61	54
Copper	mg/kg	15	19	21	180	22
Lead	mg/kg	7	5	11	140	12
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	45	52	81	42	33
Zinc	mg/kg	15	21	17	140	26

Acid Extractable metals in soil

Our Reference		291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference	UNITS	GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	30/03/2022	30/03/2022	30/03/2022	30/03/2022	30/03/2022
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	54	47	31	55	33
Copper	mg/kg	25	15	11	20	13
Lead	mg/kg	15	7	7	7	5
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	38	59	20	43	40
Zinc	mg/kg	29	20	32	22	12

Acid Extractable metals in soil

Our Reference		291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference	UNITS	KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	30/03/2022	30/03/2022	30/03/2022	30/03/2022	30/03/2022
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	65	63	68	69	59
Copper	mg/kg	26	28	29	26	29
Lead	mg/kg	11	8	9	8	8
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	62	65	72	77	61
Zinc	mg/kg	27	32	31	29	29

Acid Extractable metals in soil

Our Reference		291913-17	291913-18	291913-19	291913-20	291913-22
Your Reference	UNITS	QA2	BV-1	BV-2	BV-3	BV-5
Depth		-	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	30/03/2022	30/03/2022	30/03/2022	30/03/2022	30/03/2022
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	68	39	73	72	55
Copper	mg/kg	30	13	25	22	21
Lead	mg/kg	8	6	10	8	9
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	61	44	67	23	46
Zinc	mg/kg	30	12	27	25	20

Moisture						
Our Reference	UNITS	291913-1	291913-2	291913-3	291913-4	291913-5
Your Reference		H1V-1	H2V-1	GTV-1	GTW-1	GTW-2
Depth		1.9-2.0	1.9-2.0	0.5-0.6	-	-
Date Sampled		21/03/2022	21/03/2022	21/03/2022	21/03/2022	21/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Moisture	%	23	17	24	23	22

Moisture						
Our Reference	UNITS	291913-6	291913-8	291913-9	291913-10	291913-11
Your Reference		GTW-3	KTB-P	KTB-NE	KTB-NW	KTB-SE
Depth		-	1.9-2.0	1.0-1.2	1.0-1.2	1.0-1.2
Date Sampled		21/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Moisture	%	25	14	21	24	23

Moisture						
Our Reference	UNITS	291913-12	291913-13	291913-14	291913-15	291913-16
Your Reference		KTB-SW	KSP-1	KSP-2	KSP-3	QA1
Depth		1.0-1.2	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Moisture	%	24	23	24	23	23

Moisture						
Our Reference	UNITS	291913-17	291913-18	291913-19	291913-20	291913-22
Your Reference		QA2	BV-1	BV-2	BV-3	BV-5
Depth		-	-	-	-	-
Date Sampled		22/03/2022	22/03/2022	22/03/2022	22/03/2022	22/03/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	28/03/2022	28/03/2022	28/03/2022	28/03/2022	28/03/2022
Date analysed	-	29/03/2022	29/03/2022	29/03/2022	29/03/2022	29/03/2022
Moisture	%	22	24	24	23	21

Asbestos ID - materials		
Our Reference	UNITS	291913-7
Your Reference		GTW-A
Depth		-
Date Sampled		21/03/2022
Type of sample		Material
Date analysed	-	31/03/2022
Mass / Dimension of Sample	-	50x35x4mm
Sample Description	-	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected
Trace Analysis	-	[NT]

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.

Method ID	Methodology Summary
Org-022/025	<p>Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.</p> <p>For soil results:-</p> <ol style="list-style-type: none"> 1. 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. <p>Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.</p>
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	<p>Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.</p> <p>Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.</p>

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	291913-2
Date extracted	-			28/03/2022	1	28/03/2022	28/03/2022		28/03/2022	28/03/2022
Date analysed	-			28/03/2022	1	28/03/2022	28/03/2022		28/03/2022	28/03/2022
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	1	<25	<25	0	95	106
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	1	<25	<25	0	95	106
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	107	120
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	100	107
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	85	87
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	107	107
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	80	82
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	110	1	77	114	39	111	114

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	12	28/03/2022	28/03/2022		[NT]	[NT]
Date analysed	-			[NT]	12	28/03/2022	28/03/2022		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	12	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	12	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	12	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	12	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	12	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	12	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	12	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	12	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	12	116	113	3	[NT]	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	291913-2
Date extracted	-			28/03/2022	1	28/03/2022	28/03/2022		28/03/2022	28/03/2022
Date analysed	-			29/03/2022	1	29/03/2022	29/03/2022		29/03/2022	29/03/2022
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	1	<50	<50	0	88	88
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	1	<100	<100	0	90	95
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	1	<100	<100	0	103	109
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	1	<50	<50	0	88	88
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	1	<100	<100	0	90	95
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	1	<100	<100	0	103	109
Surrogate o-Terphenyl	%		Org-020	92	1	94	95	1	91	96

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	12	28/03/2022	28/03/2022		[NT]	[NT]
Date analysed	-			[NT]	12	29/03/2022	29/03/2022		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	12	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	12	<100	<100	0	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	12	<100	<100	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	12	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	12	<100	<100	0	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	12	<100	<100	0	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	12	94	97	3	[NT]	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	291913-2
Date extracted	-			29/03/2022	1	29/03/2022	29/03/2022		29/03/2022	29/03/2022
Date analysed	-			29/03/2022	1	29/03/2022	29/03/2022		29/03/2022	29/03/2022
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	116	114
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	111	109
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	118	116
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	139	137
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	127	119
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	129	125
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	97	91
Benzo(b,j,k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	<0.05	<0.05	0	104	98
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	119	1	120	121	1	125	118

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	12	29/03/2022	29/03/2022		[NT]	[NT]
Date analysed	-			[NT]	12	29/03/2022	29/03/2022		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j,k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	12	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	12	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	12	117	118	1	[NT]	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	[NT]
Date extracted	-			29/03/2022	[NT]	[NT]	[NT]	[NT]	29/03/2022	[NT]
Date analysed	-			29/03/2022	[NT]	[NT]	[NT]	[NT]	29/03/2022	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	78	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	72	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	108	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	291913-2
Date prepared	-			28/03/2022	1	28/03/2022	28/03/2022		28/03/2022	28/03/2022
Date analysed	-			30/03/2022	1	30/03/2022	30/03/2022		30/03/2022	30/03/2022
Arsenic	mg/kg	4	Metals-020	<4	1	<4	<4	0	89	#
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	89	77
Chromium	mg/kg	1	Metals-020	<1	1	43	44	2	92	91
Copper	mg/kg	1	Metals-020	<1	1	15	15	0	88	95
Lead	mg/kg	1	Metals-020	<1	1	7	7	0	91	83
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	116	108
Nickel	mg/kg	1	Metals-020	<1	1	45	39	14	96	101
Zinc	mg/kg	1	Metals-020	<1	1	15	15	0	93	79

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	12	28/03/2022	28/03/2022		[NT]	[NT]
Date analysed	-			[NT]	12	30/03/2022	30/03/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	12	<4	<4	0	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	12	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	12	65	58	11	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	12	26	22	17	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	12	11	8	32	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	12	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	12	62	57	8	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	12	27	24	12	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

8 metals in soil - # Low spike recovery was obtained for this sample. Sample matrix interference is suspected. However, an acceptable recovery was obtained for the LCS